

DATE 01/18/2008

Columbia County Building Permit

PERMIT

This Permit Must Be Prominently Posted on Premises During Construction

000026640

APPLICANT MATT CASON PHONE 752-8453
 ADDRESS 2910 SW CR 242 LAKE CITY FL 32024
 OWNER BILL & KAREN ZETROUER PHONE 752-8453
 ADDRESS 2910 SW CR 242 1262 SW Bluff Dr. LAKE CITY Fort White FL 32024 32038
 CONTRACTOR MATT CASON PHONE 752-8453
 LOCATION OF PROPERTY 47S, TR ON HOLLINSWORTH ROAD, TR ON BLUFF DR., 2ND, 3RD, 4TH
LOT ON LEFT AFTER BURGUNDY LANE

TYPE DEVELOPMENT SFD, UTILITY ESTIMATED COST OF CONSTRUCTION 162750.00
 HEATED FLOOR AREA 2139.00 TOTAL AREA 3255.00 HEIGHT STORIES 1
 FOUNDATION CONC WALLS FRAMED ROOF PITCH 6/12 FLOOR SLAB
 LAND USE & ZONING ESA-2 MAX. HEIGHT
 Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00
 NO. EX.D.U. 1 FLOOD ZONE AE DEVELOPMENT PERMIT NO. 08-001

PARCEL ID 18-7S-16-04236-039 SUBDIVISION CEDAR SPRINGS SHORE
 LOT 3 BLOCK PHASE .00 UNIT 5 TOTAL ACRES

CBC1254765
 Culvert Permit No. Culvert Waiver Contractor's License Number BK Applicant/Owner/Contractor JH
 EXISTING 07-995 BK JH N
 Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident

COMMENTS: ZERO FT RISE LETTER RECEIVED, MFE: 36', ELEVATION CERT NEEDED BEFORE
POWER, MH MUST BE REMOVED WITHIN 45 DAYS AFTER CO ISSUANCE
 Check # or Cash 202

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power Foundation Monolithic
 date/app. by date/app. by date/app. by
 Under slab rough-in plumbing Slab Sheathing/Nailing
 date/app. by date/app. by date/app. by
 Framing Rough-in plumbing above slab and below wood floor
 date/app. by date/app. by
 Electrical rough-in Heat & Air Duct Peri. beam (Lintel)
 date/app. by date/app. by date/app. by
 Permanent power C.O. Final Culvert
 date/app. by date/app. by date/app. by
 M/H tie downs, blocking, electricity and plumbing Pool
 date/app. by date/app. by
 Reconnection Pump pole Utility Pole
 date/app. by date/app. by date/app. by
 M/H Pole Travel Trailer Re-roof
 date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 815.00 CERTIFICATION FEE \$ 16.27 SURCHARGE FEE \$ 16.27
 MISC. FEES \$ 0.00 ZONING CERT. FEE \$ 50.00 FIRE FEE \$ 0.00 WASTE FEE \$
 FLOOD DEVELOPMENT FEE \$ 50.00 FLOOD ZONE FEE \$ 25.00 CULVERT FEE \$ **TOTAL FEE** 972.54

INSPECTORS OFFICE *[Signature]* CLERKS OFFICE *[Signature]*

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.

NOTICE OF COMMENCEMENT

STATE OF FLORIDA
COUNTY OF: COLUMBIA

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

1. Description of Property: LOT 3 CEDAR SPRINGS SHORES
1262 SW BLUFF DRIVE FORT WHITE, FL 32038

2. General Description of Improvements: RESIDENTIAL CONSTRUCTION

3. Name and Address of Owner: KAREN AND WILLIAM ZETROUER
1262 SW BLUFF DRIVE
FORT WHITE, FL 32038

Inst:200912009674 Date:6/11/2009 Time:2:11 PM
P. DeWitt Cason, Columbia County Page 1 of 1 B:1174 P:2670

Interest in Property: Fee Simple

Name and Address of Fee Simple Titleholder (If other than owner): N/A

4. Name and Address of Contractor: CASON CONSTRUCTION & DEVELOPMENT
2910 SW CR 242
LAKE CITY, FL 32024

5. Name and Address of Surety on payment bond, if any, and amount of such bond: N/A

Amount of Bond: \$0

6. Name and Address of Lender:

MERCANTILE BANK, A DIVISION OF CAROLINA FIRST BANK
425 22nd Avenue North
St. Petersburg, FL 33704

Attention: Barbara Spitaleri-Hale

7. Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13 (1)(a)7., Florida Statutes:


MERCANTILE BANK, A DIVISION OF CAROLINA FIRST BANK
425 22nd Avenue North
St. Petersburg, FL 33704

Attention: Barbara Spitaleri-Hale

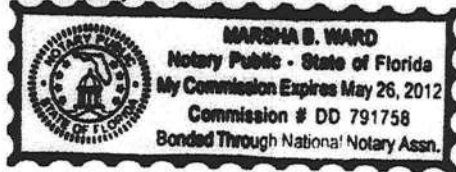
8. In addition to himself, Owner designates _____ of _____ to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.


9. Expiration date of Notice of Commencement (the expiration date is 1 year from the date of recording unless a different date is specified). _____

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 or Owner's Authorized Officer/Director/Partner/Manager
Signatory's Title/Office 1

The foregoing instrument was acknowledged before me this 10 day of June, 2009 (year) by William Zetrouer (name of person) as property owner (type of authority, ... e.g. officer, trustee, attorney in fact) for N/A (name of party on behalf of whom instrument was executed).




Signature of Notary Public - State of Florida
Print, Type or Stamp Commissioned Name of Notary Public
Commission Number

Personally Known _____ or Produced Identification Z.366-923-48-018-0

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.


Signature of Natural Person Signing Above

26640 WTS*

Spoke to MATT
1/15/08

For Office Use Only Application # 0712-89 Date Received 12/28/07 By G Permit # 26640
 Zoning Official BLK Date 14.01.08 Flood Zone AE FEMA Map # 0255 Zoning ESA-2
 Land Use ESA Elevation 35' MFE 36' River Santa FE Plans Examiner OKJTH Date 1-14-08
 Comments 0 ft Rise Letter Required MTH to be removed 45 days after issue of CO elevation cert needed before power
 NOC EH Deed or PA Site Plan State Road Info Parent Parcel # _____
 Dev Permit # _____ In Floodway Letter of Authorization from Contractor _____
 Unincorporated area Incorporated area Town of Fort White Town of Fort White Compliance letter _____

Name Authorized Person Signing Permit Matt Cason Fax _____ Phone 752 8453
 Address 2910 SW CR 242 LC FL 32024
 Owners Name William (Bill) & Karen Zetrower Phone 752 8453
 911 Address 1262 SW Bluff Dr. Fort White, FL. 32038
 Contractors Name Cason Construction Phone 752 8453
 Address 2910 SW CR 242 Lake City FL 32024

Fee Simple Owner Name & Address _____
 Bonding Co. Name & Address _____
 Architect/Engineer Name & Address Mark Disosway 754-5419
 Mortgage Lenders Name & Address _____

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

Property ID Number 18 75 16 04236 039 Estimated Cost of Construction 200,000.00
 Subdivision Name Cedar Springs Shores Lot 2,3,4 Block _____ Unit 5 Phase _____
 Driving Directions South Hwy 47 past Fort White, TR on Hollingsworth, TR on first paved rd Bluff Dr, Go 1 mile, Property on left. 2,3,4 lot past Burgundy Lane on left
 Number of Existing Dwellings on Property 1
 Construction of Single family Total Acreage 5.4 Lot Size _____
 Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive Total Building Height 37'
 Actual Distance of Structure from Property Lines - Front 425' Side 120' Side 120' Rear 375'
 Number of Stories 1 1/2 Heated Floor Area 2139 Total Heated Floor Area 3,255 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.

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.

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.

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.

Bill Z. Lowe
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.

[Signature]
Contractor's Signature (Permitee)

Contractor's License Number CBC1254765
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 28 day of December 2007.
Personally known _____ or Produced Identification DL - Florida

Teresa D. Barrs
State of Florida Notary Signature (For the Contractor)

SEAL:



LOTS 2, 3, & 4 UNIT 5 CEDAR
 CEDAR SPRING SHORES.
 ORB 407-425 THRU 431,
 686-522, TRUST DEED 757-404,
 ZETROUER WILLIAM C & KAREN
 1262 SW BLUFF DRIVE
 FT WHITE, FL 32038
 18-7S-16-04236-039
 Columbia County 2008 R
 CARD 001 of 001
 BY JEFF

PRINTED 11/15/2007 17:24
 APPR 9/05/2003 JS
 PUSE 000200 MOBILE HOME

BUSE 000800 MOBILE HME
 MOD 2 MOBILE HME BATH
 EXW 26 ALM SIDING FIXT
 % N/A BDRM
 RSTR 03 GABLE/HIP RMS
 RCVR 01 MINIMUM UNITS
 % N/A C-W%
 INTW 04 PLYWOOD HGHT
 % N/A PMTR
 FLOR 14 CARPET STYS
 10% 08 SHT VINYL ECON
 HTTP 04 AIR DUCTED FUNC
 A/C 03 CENTRAL SPCD
 QUAL 03 03 DEPR 09
 FNDN N/A UD-1
 SIZE N/A UD-2
 CEIL N/A UD-3
 ARCH N/A UD-4
 FRME 01 NONE UD-5
 KTCH 01 01 UD-6
 WNDO N/A UD-7
 CLAS N/A UD-8
 OCC N/A UD-9
 COND 03 03 %
 SUB A-AREA % E-AREA SUB VALUE
 BAS02 792 100 792 4386

792 HTD AREA 98.910 INDEX 18716.01 CEDAR SPR
 792 EFF AREA 27.694 E-RATE 100.000 INDX STR 18-7S-16
 21934 RCN 1973 AYB MKT AREA 02
 20.00 %GOOD 4,386 B BLDG VAL 1973 EYB (PUD1)
 HX Appyr 2003
 #FIELD CK: 1262 BLUFF DR SW FT WHITE
 #LOC: 1262 BLUFF DR SW FT WHITE
 +-----66-----
 +-----66-----
 +-----66-----

4,386 BLDG
 0 XFOB
 170,750 LAND
 0 AG
 0 MKAG
 175,136 JUST
 0 CLAS
 0 SOHD
 0 ASSD
 0 EXPT
 0 COTXBL
 ----- BLDG TRAVERSE -----
 BAS2002=W66 S12 E66 N12\$.

AE BN	CODE	DESC	LEN	WID	HGT	QTY	QL	YR	ADJ	FIELD CK:	UNITS	UT	PRICE	ADJ	UT	PR	SPCD	%	GOOD	XFOB	VALUE
TOTAL	792	EXTRA FEATURES																			
AE BN	CODE	DESC	LEN	WID	HGT	QTY	QL	YR	ADJ	FIELD CK:	UNITS	UT	PRICE	ADJ	UT	PR	SPCD	%	GOOD	XFOB	VALUE
AE	Y	000200	MEL	HM	A-1	0002	0003			UD1 {UD3 FRONT DEPTH	1.00	1.00	300.000	FF	750.000						LAND VALUE
Y	009945	WELL/SEPT				0002	0002			ADJUSTMENTS	1.00	1.00	1.000	UT	2000.000						168,750
N	009945	WELL/SEPT				0002	0002				1.00	1.00	1.000	UT	2000.000						2,000
L002 - LOT 3											1.00	1.00	1.000	UT	2000.000						
2008											1.00	1.00	1.000	UT	2000.000						

L003 - LOT 4



STATE OF FLORIDA
DEPARTMENT OF HEALTH

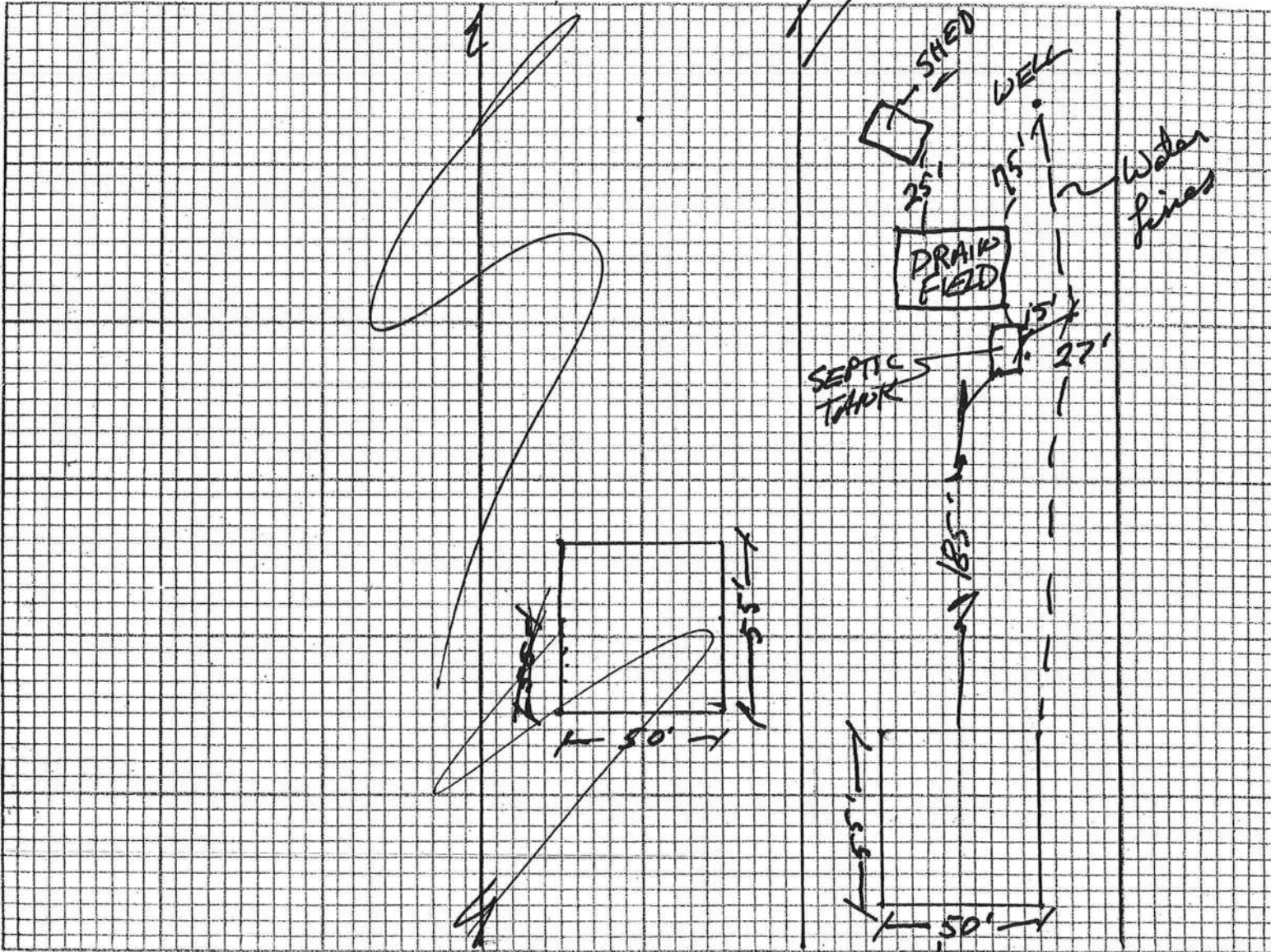
APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT

Permit Application Number 07-0995E

Z. Hauer

PART II - SITE PLAN

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



Notes: _____

@ 300' TO RIVER

See attached for scaled view.

Site Plan submitted by: *Bill Shores* Signature
Plan Approved *[Signature]* Not Approved _____
By *[Signature]* Date 12/20/17
APPROVED
Columbia's Chiu County Health Department

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: 708081CasonConstruction Address: 1262 SW Bluff Drive City, State: Fort White, FL Owner: Zetrouer,Bill&KarenResidence Climate Zone: North	Builder: Permitting Office: Columbia Permit Number: 26640 Jurisdiction Number: 221000
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<table style="width: 100%; border-collapse: collapse;"> <tr><td>1. New construction or existing</td><td style="text-align: right;">New</td><td style="text-align: right;">___</td></tr> <tr><td>2. Single family or multi-family</td><td style="text-align: right;">Single family</td><td style="text-align: right;">___</td></tr> <tr><td>3. Number of units, if multi-family</td><td style="text-align: right;">1</td><td style="text-align: right;">___</td></tr> <tr><td>4. Number of Bedrooms</td><td style="text-align: right;">1</td><td style="text-align: right;">___</td></tr> <tr><td>5. Is this a worst case?</td><td style="text-align: right;">Yes</td><td style="text-align: right;">___</td></tr> <tr><td>6. Conditioned floor area (ft²)</td><td style="text-align: right;">2139 ft²</td><td style="text-align: right;">___</td></tr> <tr><td>7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)</td><td></td><td></td></tr> <tr><td> a. U-factor:</td><td style="text-align: right;">Description Area</td><td></td></tr> <tr><td> (or Single or Double DEFAULT)</td><td>7a. (Dble, U=0.3)</td><td style="text-align: right;">80.0 ft² ___</td></tr> <tr><td> b. SHGC:</td><td></td><td></td></tr> <tr><td> (or Clear or Tint DEFAULT)</td><td>7b. (SHGC=0.5)</td><td style="text-align: right;">609.5 ft² ___</td></tr> <tr><td>8. Floor types</td><td></td><td></td></tr> <tr><td> a. Raised Wood, Post or Pier</td><td style="text-align: right;">R=19.0, 1630.0ft²</td><td style="text-align: right;">___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td>9. Wall types</td><td></td><td></td></tr> <tr><td> a. Frame, Wood, Exterior</td><td style="text-align: right;">R=19.0, 1213.0 ft²</td><td style="text-align: right;">___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> d. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> e. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td>10. Ceiling types</td><td></td><td></td></tr> <tr><td> a. Single Assembly</td><td style="text-align: right;">R=30.0, 1734.0 ft²</td><td style="text-align: right;">___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td>11. Ducts</td><td></td><td></td></tr> <tr><td> a. Sup: Unc. Ret: Unc. AH: Interior</td><td style="text-align: right;">Sup. R=6.0, 130.0 ft</td><td style="text-align: right;">___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> </table>	1. New construction or existing	New	___	2. Single family or multi-family	Single family	___	3. Number of units, if multi-family	1	___	4. Number of Bedrooms	1	___	5. 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N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td>13. Heating systems</td><td></td><td></td></tr> <tr><td> a. Electric Heat Pump</td><td></td><td style="text-align: right;">Cap: 31.0 kBtu/hr ___</td></tr> <tr><td></td><td></td><td style="text-align: right;">HSPF: 7.90 ___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td>14. Hot water systems</td><td></td><td></td></tr> <tr><td> a. Electric Resistance</td><td></td><td style="text-align: right;">Cap: 40.0 gallons ___</td></tr> <tr><td></td><td></td><td style="text-align: right;">EF: 0.93 ___</td></tr> <tr><td> b. N/A</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> c. Conservation credits</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> (HR-Heat recovery, Solar</td><td></td><td></td></tr> <tr><td> DHP-Dedicated heat pump)</td><td></td><td></td></tr> <tr><td>15. HVAC credits</td><td></td><td style="text-align: right;">___</td></tr> <tr><td> (CF-Ceiling fan, CV-Cross ventilation,</td><td></td><td></td></tr> <tr><td> HF-Whole house fan,</td><td></td><td></td></tr> <tr><td> PT-Programmable Thermostat,</td><td></td><td></td></tr> <tr><td> MZ-C-Multizone cooling,</td><td></td><td></td></tr> <tr><td> MZ-H-Multizone heating)</td><td></td><td></td></tr> </table>	12. Cooling systems			a. Central Unit		Cap: 31.0 kBtu/hr ___			SEER: 13.00 ___	b. N/A		___	c. N/A		___	13. Heating systems			a. Electric Heat Pump		Cap: 31.0 kBtu/hr ___			HSPF: 7.90 ___	b. N/A		___	c. N/A		___	14. Hot water systems			a. Electric Resistance		Cap: 40.0 gallons ___			EF: 0.93 ___	b. N/A		___	c. Conservation credits		___	(HR-Heat recovery, Solar			DHP-Dedicated heat pump)			15. HVAC credits		___	(CF-Ceiling fan, CV-Cross ventilation,			HF-Whole house fan,			PT-Programmable Thermostat,			MZ-C-Multizone cooling,			MZ-H-Multizone heating)		
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b. N/A		___																																																																																																																																																								
12. Cooling systems																																																																																																																																																										
a. Central Unit		Cap: 31.0 kBtu/hr ___																																																																																																																																																								
		SEER: 13.00 ___																																																																																																																																																								
b. N/A		___																																																																																																																																																								
c. N/A		___																																																																																																																																																								
13. Heating systems																																																																																																																																																										
a. Electric Heat Pump		Cap: 31.0 kBtu/hr ___																																																																																																																																																								
		HSPF: 7.90 ___																																																																																																																																																								
b. N/A		___																																																																																																																																																								
c. N/A		___																																																																																																																																																								
14. Hot water systems																																																																																																																																																										
a. Electric Resistance		Cap: 40.0 gallons ___																																																																																																																																																								
		EF: 0.93 ___																																																																																																																																																								
b. N/A		___																																																																																																																																																								
c. Conservation credits		___																																																																																																																																																								
(HR-Heat recovery, Solar																																																																																																																																																										
DHP-Dedicated heat pump)																																																																																																																																																										
15. HVAC credits		___																																																																																																																																																								
(CF-Ceiling fan, CV-Cross ventilation,																																																																																																																																																										
HF-Whole house fan,																																																																																																																																																										
PT-Programmable Thermostat,																																																																																																																																																										
MZ-C-Multizone cooling,																																																																																																																																																										
MZ-H-Multizone heating)																																																																																																																																																										

Glass/Floor Area: 0.28	Total as-built points: 19482	PASS
	Total base points: 23222	

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

PREPARED BY: *[Signature]*


DATE: 12-17-07

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

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.



BUILDING OFFICIAL: _____

DATE: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLR2PB v4.1)

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 1262 SW Bluff Drive, Fort White, FL, 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	2139.0	20.04	7715.8	Double,U=0.30,SHGC=0.5	NE	12.0	5.5	25.0	24.06	0.47	280.4
				Double,U=0.30,SHGC=0.5	NE	12.0	3.5	18.0	24.06	0.44	190.8
				Double,U=0.30,SHGC=0.5	NE	12.0	5.5	20.0	24.06	0.47	224.3
				Double,U=0.30,SHGC=0.5	NW	25.0	5.5	20.0	21.41	0.52	220.8
				Double,U=0.30,SHGC=0.5	NE	1.5	5.5	45.0	24.06	0.91	980.3
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	30.0	33.95	0.38	386.4
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	18.0	33.95	0.38	231.9
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	9.0	33.95	0.38	115.9
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	40.0	33.95	0.38	515.3
				Double,U=0.30,SHGC=0.5	SW	1.5	5.5	30.0	32.00	0.86	828.5
				Double,U=0.30,SHGC=0.5	SW	6.0	5.5	45.0	32.00	0.47	680.3
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	80.0	21.41	0.52	883.1
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	25.0	21.41	0.52	276.0
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	20.0	21.41	0.52	220.8
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	24.0	33.95	0.38	309.2
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	32.0	33.95	0.38	412.2
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	32.0	21.41	0.52	353.3
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	48.0	21.41	0.52	529.9
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	32.0	21.41	0.52	353.3
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	4.0	21.41	0.52	44.2
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	12.5	33.95	0.38	161.0
				As-Built Total:			609.5		8197.6		
WALL TYPES Area X BSPM = Points				Type	R-Value	Area X SPM = Points					
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	19.0	1213.0 0.90 1091.7					
Exterior	1213.0	1.70	2062.1								
Base Total:				As-Built Total:		1213.0		1091.7			
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points						
Adjacent	0.0	0.00	0.0	Exterior Insulated	10.0 4.10 41.0						
Exterior	70.0	4.10	287.0	Exterior Insulated	60.0 4.10 246.0						
Base Total:				As-Built Total:		70.0		287.0			
CEILING TYPES Area X BSPM = Points				Type	R-Value	Area X SPM X SCM = Points					
Under Attic	1630.0	1.73	2819.9	Single Assembly	30.0	1734.0 4.40 X 1.00 7629.6					
Base Total:				As-Built Total:		1734.0		7629.6			

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 1262 SW Bluff Drive, Fort White, FL,	PERMIT #:
---	-----------

BASE	AS-BUILT
FLOOR TYPES Area X BSPM = Points	Type R-Value Area X SPM = Points
Slab 0.0(p) 0.0 0.0	Raised Wood, Post or Pier 19.0 1630.0 0.77 1248.6
Raised 1630.0 -3.99 -6503.7	
Base Total: -6503.7	As-Built Total: 1630.0 1248.6
INFILTRATION Area X BSPM = Points	Area X SPM = Points
2139.0 10.21 21839.2	2139.0 10.21 21839.2
Summer Base Points: 28220.3	Summer As-Built Points: 40293.7
Total Summer X System = Cooling Points Multiplier Points	Total X Cap X Duct X System X Credit = Cooling Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)
28220.3 0.4266 12038.8	(sys 1: Central Unit 31000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 40294 1.00 (1.09 x 1.147 x 0.91) 0.263 1.000 12035.4 40293.7 1.00 1.138 0.263 1.000 12035.4

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 1262 SW Bluff Drive, Fort White, FL,	PERMIT #:
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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	2139.0	12.74	4905.2	Double,U=0.30,SHGC=0.5	NE	12.0	5.5	25.0	7.58	1.06	200.6
				Double,U=0.30,SHGC=0.5	NE	12.0	3.5	18.0	7.58	1.06	144.9
				Double,U=0.30,SHGC=0.5	NE	12.0	5.5	20.0	7.58	1.06	160.5
				Double,U=0.30,SHGC=0.5	NW	25.0	5.5	20.0	8.08	1.04	167.5
				Double,U=0.30,SHGC=0.5	NE	1.5	5.5	45.0	7.58	1.01	343.9
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	30.0	1.02	2.65	80.8
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	18.0	1.02	2.65	48.5
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	9.0	1.02	2.65	24.2
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	40.0	1.02	2.65	107.7
				Double,U=0.30,SHGC=0.5	SW	1.5	5.5	30.0	2.49	1.07	80.1
				Double,U=0.30,SHGC=0.5	SW	6.0	5.5	45.0	2.49	1.65	185.0
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	80.0	8.08	1.04	669.9
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	25.0	8.08	1.04	209.4
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	20.0	8.08	1.04	167.5
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	24.0	1.02	2.65	64.6
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	32.0	1.02	2.65	86.2
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	32.0	8.08	1.04	268.0
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	48.0	8.08	1.04	402.0
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	32.0	8.08	1.04	268.0
				Double,U=0.30,SHGC=0.5	NW	1.5	0.0	4.0	8.08	1.04	33.5
				Double,U=0.30,SHGC=0.5	SE	1.5	0.0	12.5	1.02	2.65	33.7
				As-Built Total:			609.5		3746.3		
WALL TYPES											
Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	0.0	0.00	0.0	Frame, Wood, Exterior	19.0			1213.0	2.20		2668.6
Exterior	1213.0	3.70	4488.1								
Base Total:				As-Built Total:			1213.0		2668.6		
DOOR TYPES											
Area X BWPM = Points				Type	R-Value			Area X WPM = Points			
Adjacent	0.0	0.00	0.0	Exterior Insulated				10.0	8.40		84.0
Exterior	70.0	8.40	588.0	Exterior Insulated				60.0	8.40		504.0
Base Total:				As-Built Total:			70.0		588.0		
CEILING TYPES											
Area X BWPM = Points				Type	R-Value			Area X WPM X WCM = Points			
Under Attic	1630.0	2.05	3341.5	Single Assembly	30.0			1734.0	1.43 X 1.00		2479.6
Base Total:				As-Built Total:			1734.0		2479.6		

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: 1262 SW Bluff Drive, Fort White, FL,	PERMIT #:
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BASE				AS-BUILT					
FLOOR TYPES Area X BWPM = Points				Type	R-Value	Area X WPM =	Points		
Slab	0.0(p)	0.0	0.0	Raised Wood, Post or Pier	19.0	1630.0	0.88	1427.9	
Raised	1630.0	0.96	1564.8						
Base Total:			1564.8	As-Built Total:		1630.0		1427.9	
INFILTRATION Area X BWPM = Points				Area X WPM = Points					
	2139.0	-0.59	-1262.0		2139.0	-0.59	-1262.0		
Winter Base Points:			13625.5	Winter As-Built Points:			9648.4		
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier	X System Multiplier	X Credit Multiplier = Heating Points	
13625.5	0.6274	8548.7		(sys 1: Electric Heat Pump 31000 btuh ,EFF(7.9) Ducts:Unc(S),Unc(R),Int(AH),R6.0 9648.4	1.000	(1.069 x 1.169 x 0.93)	0.432	1.000	4840.1
				9648.4	1.00	1.162	0.432	1.000	4840.1

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: 1262 SW Bluff Drive, Fort White, FL,	PERMIT #:
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BASE				AS-BUILT								
WATER HEATING												
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X Credit	=	Total Multiplier
1		2635.00		2635.0	40.0	0.93	1		1.00	2606.67	1.00	2606.7
As-Built Total:											2606.7	

CODE COMPLIANCE STATUS													
BASE					AS-BUILT								
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
12039		8549		2635		23222	12035		4840		2607		19482

PASS



Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: 1262 SW Bluff Drive, Fort White, FL,	PERMIT #:
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6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked 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%.	
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* = 85.8

The higher the score, the more efficient the home.

Zetrouer,Bill&KarenResidence, 1262 SW Bluff Drive, Fort White, FL,

<p>1. New construction or existing New <input type="checkbox"/></p> <p>2. Single family or multi-family Single family <input type="checkbox"/></p> <p>3. Number of units, if multi-family 1 <input type="checkbox"/></p> <p>4. Number of Bedrooms 1 <input type="checkbox"/></p> <p>5. Is this a worst case? Yes <input type="checkbox"/></p> <p>6. Conditioned floor area (ft²) 2139 ft² <input type="checkbox"/></p> <p>7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)</p> <p style="margin-left: 20px;">a. U-factor: Description Area (or Single or Double DEFAULT) 7a. (Dble, U=0.3) 80.0 ft² <input type="checkbox"/></p> <p style="margin-left: 20px;">b. SHGC: (or Clear or Tint DEFAULT) 7b. (SHGC=0.5) 609.5 ft² <input type="checkbox"/></p> <p>8. Floor types</p> <p style="margin-left: 20px;">a. Raised Wood, Post or Pier R=19.0, 1630.0ft² <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>9. Wall types</p> <p style="margin-left: 20px;">a. Frame, Wood, Exterior R=19.0, 1213.0 ft² <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">d. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">e. N/A <input type="checkbox"/></p> <p>10. Ceiling types</p> <p style="margin-left: 20px;">a. Single Assembly R=30.0, 1734.0 ft² <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>11. Ducts</p> <p style="margin-left: 20px;">a. Sup: Unc. Ret: Unc. AH: Interior Sup. R=6.0, 130.0 ft <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p>	<p>12. Cooling systems</p> <p style="margin-left: 20px;">a. Central Unit Cap: 31.0 kBtu/hr <input type="checkbox"/> SEER: 13.00 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>13. Heating systems</p> <p style="margin-left: 20px;">a. Electric Heat Pump Cap: 31.0 kBtu/hr <input type="checkbox"/> HSPF: 7.90 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. N/A <input type="checkbox"/></p> <p>14. Hot water systems</p> <p style="margin-left: 20px;">a. Electric Resistance Cap: 40.0 gallons <input type="checkbox"/> EF: 0.93 <input type="checkbox"/></p> <p style="margin-left: 20px;">b. N/A <input type="checkbox"/></p> <p style="margin-left: 20px;">c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) <input type="checkbox"/></p> <p>15. HVAC credits <input type="checkbox"/> (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)</p>
---	--

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____



**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.*

¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.
EnergyGauge® (Version: FLR2PB v4.1)

Residential System Sizing Calculation

Summary

Zetrouer, Bill & Karen Residence
1262 SW Bluff Drive
Fort White, FL

Project Title:
708081 Cason Construction

Class 3 Rating
Registration No. 0
Climate: North

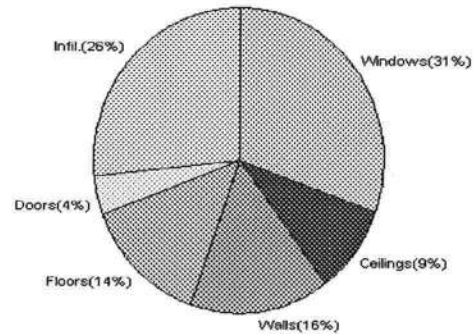
12/17/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	22051 Btuh	Total cooling load calculation	26281 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	140.6 31000	Sensible (SHR = 0.75)	100.3 23250
Heat Pump + Auxiliary(0.0kW)	140.6 31000	Latent	250.0 7750
		Total (Electric Heat Pump)	118.0 31000

WINTER CALCULATIONS

Winter Heating Load (for 2139 sqft)

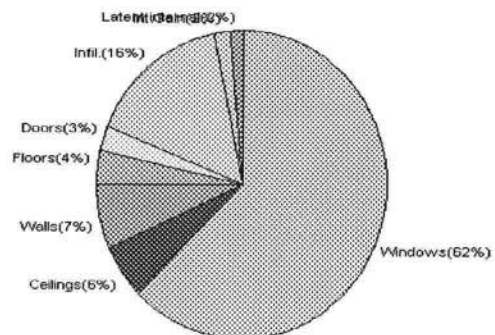
Load component	Load	
Window total	610 sqft	6765 Btuh
Wall total	1213 sqft	3468 Btuh
Door total	70 sqft	907 Btuh
Ceiling total	1734 sqft	2076 Btuh
Floor total	1630 sqft	3024 Btuh
Infiltration	143 cfm	5810 Btuh
Duct loss		0 Btuh
Subtotal		22051 Btuh
Ventilation	0 cfm	0 Btuh
TOTAL HEAT LOSS		22051 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 2139 sqft)

Load component	Load	
Window total	610 sqft	16345 Btuh
Wall total	1213 sqft	1818 Btuh
Door total	70 sqft	686 Btuh
Ceiling total	1734 sqft	1515 Btuh
Floor total		981 Btuh
Infiltration	74 cfm	1375 Btuh
Internal gain		460 Btuh
Duct gain		0 Btuh
Sens. Ventilation	0 cfm	0 Btuh
Total sensible gain		23180 Btuh
Latent gain(ducts)		0 Btuh
Latent gain(infiltration)		2700 Btuh
Latent gain(ventilation)		0 Btuh
Latent gain(internal/occupants/other)		400 Btuh
Total latent gain		3100 Btuh
TOTAL HEAT GAIN		26281 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: *12-17-07*

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Zetrouer,Bill&KarenResidence
1262 SW Bluff Drive
Fort White, FL

Project Title:
708081CasonConstruction

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

12/17/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, SHGC=0.5, Metal, 0.30	NW	25.0		11.1	278 Btuh
2	2, SHGC=0.5, Metal, 0.30	NW	18.0		11.1	200 Btuh
3	2, SHGC=0.5, Metal, 0.30	NW	20.0		11.1	222 Btuh
4	2, SHGC=0.5, Metal, 0.30	SW	20.0		11.1	222 Btuh
5	2, SHGC=0.5, Metal, 0.30	NW	45.0		11.1	500 Btuh
6	2, SHGC=0.5, Metal, 0.30	NE	30.0		11.1	333 Btuh
7	2, SHGC=0.5, Metal, 0.30	NE	18.0		11.1	200 Btuh
8	2, SHGC=0.5, Metal, 0.30	NE	9.0		11.1	100 Btuh
9	2, SHGC=0.5, Metal, 0.30	NE	40.0		11.1	444 Btuh
10	2, SHGC=0.5, Metal, 0.30	SE	30.0		11.1	333 Btuh
11	2, SHGC=0.5, Metal, 0.30	SE	45.0		11.1	500 Btuh
12	2, SHGC=0.5, Metal, 0.30	SW	80.0		11.1	888 Btuh
13	2, SHGC=0.5, Metal, 0.30	SW	25.0		11.1	278 Btuh
14	2, SHGC=0.5, Metal, 0.30	SW	20.0		11.1	222 Btuh
15	2, SHGC=0.5, Metal, 0.30	NE	24.0		11.1	266 Btuh
16	2, SHGC=0.5, Metal, 0.30	NE	32.0		11.1	355 Btuh
17	2, SHGC=0.5, Metal, 0.30	SW	32.0		11.1	355 Btuh
18	2, SHGC=0.5, Metal, 0.30	SW	48.0		11.1	533 Btuh
19	2, SHGC=0.5, Metal, 0.30	SW	32.0		11.1	355 Btuh
20	2, SHGC=0.5, Metal, 0.30	SW	4.0		11.1	44 Btuh
21	2, SHGC=0.5, Metal, 0.30	NE	12.5		11.1	139 Btuh
Window Total			610(sqft)			6765 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.08)	19.0	1213		2.9	3468 Btuh
Wall Total			1213			3468 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		60		12.9	777 Btuh
2	Insulated - Exterior		10		12.9	130 Btuh
Door Total			70			907Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Single Assembly/D/Shin)	30.0	1734		1.2	2076 Btuh
Ceiling Total			1734			2076Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Raised Wood - Open	19	1630.0 sqft		1.9	3024 Btuh
Floor Total			1630			3024 Btuh
Zone Envelope Subtotal:						16241 Btuh
Infiltration	Type	ACH X	Zone Volume		CFM=	Load
	Natural	0.66	13040		143.4	5810 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)				(DLM of 0.00)	0 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Zetrouer, Bill & Karen Residence
 1262 SW Bluff Drive
 Fort White, FL

Project Title:
 708081 Cason Construction

Class 3 Rating
 Registration No. 0
 Climate: North

12/17/2007

Zone #1	Sensible Zone Subtotal	22051 Btuh
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WHOLE HOUSE TOTALS

	Subtotal Sensible	22051 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	22051 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)



For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Zetrouer, Bill & Karen Residence
 1262 SW Bluff Drive
 Fort White, FL

Project Title:
 708081 Cason Construction

Class 3 Rating
 Registration No. 0
 Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
 This calculation is for Worst Case. The house has been rotated 315 degrees.

12/17/2007

Component Loads for Zone #1: Main

Window	Panels/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, SHGC=0.5, Metal, 0.30	NW	25.0		11.1	278 Btuh
2	2, SHGC=0.5, Metal, 0.30	NW	18.0		11.1	200 Btuh
3	2, SHGC=0.5, Metal, 0.30	NW	20.0		11.1	222 Btuh
4	2, SHGC=0.5, Metal, 0.30	SW	20.0		11.1	222 Btuh
5	2, SHGC=0.5, Metal, 0.30	NW	45.0		11.1	500 Btuh
6	2, SHGC=0.5, Metal, 0.30	NE	30.0		11.1	333 Btuh
7	2, SHGC=0.5, Metal, 0.30	NE	18.0		11.1	200 Btuh
8	2, SHGC=0.5, Metal, 0.30	NE	9.0		11.1	100 Btuh
9	2, SHGC=0.5, Metal, 0.30	NE	40.0		11.1	444 Btuh
10	2, SHGC=0.5, Metal, 0.30	SE	30.0		11.1	333 Btuh
11	2, SHGC=0.5, Metal, 0.30	SE	45.0		11.1	500 Btuh
12	2, SHGC=0.5, Metal, 0.30	SW	80.0		11.1	888 Btuh
13	2, SHGC=0.5, Metal, 0.30	SW	25.0		11.1	278 Btuh
14	2, SHGC=0.5, Metal, 0.30	SW	20.0		11.1	222 Btuh
15	2, SHGC=0.5, Metal, 0.30	NE	24.0		11.1	266 Btuh
16	2, SHGC=0.5, Metal, 0.30	NE	32.0		11.1	355 Btuh
17	2, SHGC=0.5, Metal, 0.30	SW	32.0		11.1	355 Btuh
18	2, SHGC=0.5, Metal, 0.30	SW	48.0		11.1	533 Btuh
19	2, SHGC=0.5, Metal, 0.30	SW	32.0		11.1	355 Btuh
20	2, SHGC=0.5, Metal, 0.30	SW	4.0		11.1	44 Btuh
21	2, SHGC=0.5, Metal, 0.30	NE	12.5		11.1	139 Btuh
Window Total			610(sqft)			6765 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.08)	19.0	1213		2.9	3468 Btuh
Wall Total			1213			3468 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		60		12.9	777 Btuh
2	Insulated - Exterior		10		12.9	130 Btuh
Door Total			70			907 Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Single Assembly/D/Shin)	30.0	1734		1.2	2076 Btuh
Ceiling Total			1734			2076 Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Raised Wood - Open	19	1630.0	sqft	1.9	3024 Btuh
Floor Total			1630			3024 Btuh
Zone Envelope Subtotal:						16241 Btuh
Infiltration	Type	ACH X	Zone Volume		CFM=	Load
	Natural	0.66	13040		143.4	5810 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic)				(DLM of 0.00)	0 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Zetrouer, Bill & Karen Residence
 1262 SW Bluff Drive
 Fort White, FL

Project Title:
 708081 Cason Construction

Class 3 Rating
 Registration No. 0
 Climate: North

12/17/2007

Zone #1	Sensible Zone Subtotal	22051 Btuh
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WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	22051 Btuh 0 Btuh 22051 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)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Zetrouer,Bill&KarenResidence
1262 SW Bluff Drive
Fort White, FL

Project Title:
708081CasonConstruction

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F

12/17/2007

This calculation is for Worst Case. The house has been rotated 315 degrees.

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, SHGC=0.5, 0.30, None,N,N	NW		12ft.	5.5ft.	25.0	0.0	25.0	16	39	972 Btuh
2	2, SHGC=0.5, 0.30, None,N,N	NW		12ft.	3.5ft.	18.0	0.0	18.0	16	39	700 Btuh
3	2, SHGC=0.5, 0.30, None,N,N	NW		12ft.	5.5ft.	20.0	0.0	20.0	16	39	777 Btuh
4	2, SHGC=0.5, 0.30, None,N,N	SW		25ft.	5.5ft.	20.0	20.0	0.0	16	41	314 Btuh
5	2, SHGC=0.5, 0.30, None,N,N	NW		1.5ft.	5.5ft.	45.0	0.0	45.0	16	39	1749 Btuh
6	2, SHGC=0.5, 0.30, None,N,N	NE		1.5ft.	0ft.	30.0	0.0	30.0	16	39	1166 Btuh
7	2, SHGC=0.5, 0.30, None,N,N	NE		1.5ft.	0ft.	18.0	0.0	18.0	16	39	700 Btuh
8	2, SHGC=0.5, 0.30, None,N,N	NE		1.5ft.	0ft.	9.0	0.0	9.0	16	39	350 Btuh
9	2, SHGC=0.5, 0.30, None,N,N	NE		1.5ft.	0ft.	40.0	0.0	40.0	16	39	1555 Btuh
10	2, SHGC=0.5, 0.30, None,N,N	SE		1.5ft.	5.5ft.	30.0	12.1	17.9	16	41	918 Btuh
11	2, SHGC=0.5, 0.30, None,N,N	SE		6ft.	5.5ft.	45.0	45.0	0.0	16	41	705 Btuh
12	2, SHGC=0.5, 0.30, None,N,N	SW		1.5ft.	0ft.	80.0	80.0	0.0	16	41	1254 Btuh
13	2, SHGC=0.5, 0.30, None,N,N	SW		1.5ft.	0ft.	25.0	25.0	0.0	16	41	392 Btuh
14	2, SHGC=0.5, 0.30, None,N,N	SW		1.5ft.	0ft.	20.0	20.0	0.0	16	41	314 Btuh
15	2, SHGC=0.5, 0.30, None,N,N	NE		1.5ft.	0ft.	24.0	0.0	24.0	16	39	933 Btuh
16	2, SHGC=0.5, 0.30, None,N,N	NE		1.5ft.	0ft.	32.0	0.0	32.0	16	39	1244 Btuh
17	2, SHGC=0.5, 0.30, None,N,N	SW		1.5ft.	0ft.	32.0	32.0	0.0	16	41	502 Btuh
18	2, SHGC=0.5, 0.30, None,N,N	SW		1.5ft.	0ft.	48.0	48.0	0.0	16	41	752 Btuh
19	2, SHGC=0.5, 0.30, None,N,N	SW		1.5ft.	0ft.	32.0	32.0	0.0	16	41	502 Btuh
20	2, SHGC=0.5, 0.30, None,N,N	SW		1.5ft.	0ft.	4.0	4.0	0.0	16	41	63 Btuh
21	2, SHGC=0.5, 0.30, None,N,N	NE		1.5ft.	0ft.	12.5	0.0	12.5	16	39	486 Btuh
Window Total						610 (sqft)					16345 Btuh
Walls	Type	R-Value/U-Value		Area(sqft)		HTM		Load			
1	Frame - Wood - Ext	19.0/0.08		1213.0		1.5		1818 Btuh			
Wall Total				1213 (sqft)				1818 Btuh			
Doors	Type	Area (sqft)		HTM		Load					
1	Insulated - Exterior	60.0		9.8		588 Btuh					
2	Insulated - Exterior	10.0		9.8		98 Btuh					
Door Total		70 (sqft)				686 Btuh					
Ceilings	Type/Color/Surface	R-Value		Area(sqft)		HTM		Load			
1	Single Assembly/DarkShingle	30.0		1734.0		0.9		1515 Btuh			
Ceiling Total				1734 (sqft)				1515 Btuh			
Floors	Type	R-Value		Size		HTM		Load			
1	Raised Wood - Open	19.0		1630 (sqft)		0.6		981 Btuh			
Floor Total				1630.0 (sqft)				981 Btuh			
Zone Envelope Subtotal:										21345 Btuh	
Infiltration	Type	ACH		Volume(cuft)		CFM=		Load			
	SensibleNatural	0.34		13040		73.9		1375 Btuh			
Internal gain	Occupants		Btuh/occupant		Appliance		Load				
	2		X 230 +		0		460 Btuh				
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)						DGM = 0.00		0.0 Btuh		
Sensible Zone Load										23180 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

Zetrouer, Bill & Karen Residence
 1262 SW Bluff Drive
 Fort White, FL

Project Title:
 708081 Cason Construction

Class 3 Rating
 Registration No. 0
 Climate: North

12/17/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	23180 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	23180 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	23180 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2700 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3100 Btuh
	TOTAL GAIN	26281 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)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Zetrouer, Bill & Karen Residence
 1262 SW Bluff Drive
 Fort White, FL

Project Title:
 708081 Cason Construction

Class 3 Rating
 Registration No. 0
 Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F
 This calculation is for Worst Case. The house has been rotated 315 degrees.

12/17/2007

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, SHGC=0.5, 0.30, None,N,N	NW	12ft.	5.5ft.	25.0	0.0	25.0	16	39	972 Btuh	
2	2, SHGC=0.5, 0.30, None,N,N	NW	12ft.	3.5ft.	18.0	0.0	18.0	16	39	700 Btuh	
3	2, SHGC=0.5, 0.30, None,N,N	NW	12ft.	5.5ft.	20.0	0.0	20.0	16	39	777 Btuh	
4	2, SHGC=0.5, 0.30, None,N,N	SW	25ft.	5.5ft.	20.0	20.0	0.0	16	41	314 Btuh	
5	2, SHGC=0.5, 0.30, None,N,N	NW	1.5ft.	5.5ft.	45.0	0.0	45.0	16	39	1749 Btuh	
6	2, SHGC=0.5, 0.30, None,N,N	NE	1.5ft.	0ft.	30.0	0.0	30.0	16	39	1166 Btuh	
7	2, SHGC=0.5, 0.30, None,N,N	NE	1.5ft.	0ft.	18.0	0.0	18.0	16	39	700 Btuh	
8	2, SHGC=0.5, 0.30, None,N,N	NE	1.5ft.	0ft.	9.0	0.0	9.0	16	39	350 Btuh	
9	2, SHGC=0.5, 0.30, None,N,N	NE	1.5ft.	0ft.	40.0	0.0	40.0	16	39	1555 Btuh	
10	2, SHGC=0.5, 0.30, None,N,N	SE	1.5ft.	5.5ft.	30.0	12.1	17.9	16	41	918 Btuh	
11	2, SHGC=0.5, 0.30, None,N,N	SE	6ft.	5.5ft.	45.0	45.0	0.0	16	41	705 Btuh	
12	2, SHGC=0.5, 0.30, None,N,N	SW	1.5ft.	0ft.	80.0	80.0	0.0	16	41	1254 Btuh	
13	2, SHGC=0.5, 0.30, None,N,N	SW	1.5ft.	0ft.	25.0	25.0	0.0	16	41	392 Btuh	
14	2, SHGC=0.5, 0.30, None,N,N	SW	1.5ft.	0ft.	20.0	20.0	0.0	16	41	314 Btuh	
15	2, SHGC=0.5, 0.30, None,N,N	NE	1.5ft.	0ft.	24.0	0.0	24.0	16	39	933 Btuh	
16	2, SHGC=0.5, 0.30, None,N,N	NE	1.5ft.	0ft.	32.0	0.0	32.0	16	39	1244 Btuh	
17	2, SHGC=0.5, 0.30, None,N,N	SW	1.5ft.	0ft.	32.0	32.0	0.0	16	41	502 Btuh	
18	2, SHGC=0.5, 0.30, None,N,N	SW	1.5ft.	0ft.	48.0	48.0	0.0	16	41	752 Btuh	
19	2, SHGC=0.5, 0.30, None,N,N	SW	1.5ft.	0ft.	32.0	32.0	0.0	16	41	502 Btuh	
20	2, SHGC=0.5, 0.30, None,N,N	SW	1.5ft.	0ft.	4.0	4.0	0.0	16	41	63 Btuh	
21	2, SHGC=0.5, 0.30, None,N,N	NE	1.5ft.	0ft.	12.5	0.0	12.5	16	39	486 Btuh	
Window Total					610 (sqft)					16345 Btuh	
Walls	Type	R-Value/U-Value	Area(sqft)		HTM		Load				
1	Frame - Wood - Ext	19.0/0.08	1213.0		1.5		1818 Btuh				
Wall Total			1213 (sqft)				1818 Btuh				
Doors	Type	Area (sqft)		HTM		Load					
1	Insulated - Exterior	60.0		9.8		588 Btuh					
2	Insulated - Exterior	10.0		9.8		98 Btuh					
Door Total		70 (sqft)				686 Btuh					
Ceilings	Type/Color/Surface	R-Value	Area(sqft)		HTM		Load				
1	Single Assembly/DarkShingle	30.0	1734.0		0.9		1515 Btuh				
Ceiling Total			1734 (sqft)				1515 Btuh				
Floors	Type	R-Value	Size		HTM		Load				
1	Raised Wood - Open	19.0	1630 (sqft)		0.6		981 Btuh				
Floor Total			1630.0 (sqft)				981 Btuh				
Zone Envelope Subtotal:								21345 Btuh			
Infiltration	Type	ACH	Volume(cuft)		CFM=		Load				
	SensibleNatural	0.34	13040		73.9		1375 Btuh				
Internal gain	Occupants		Btuh/occupant		Appliance		Load				
	2		X 230 +		0		460 Btuh				
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)						DGM = 0.00		0.0 Btuh		
Sensible Zone Load								23180 Btuh			

Manual J Summer Calculations

Residential Load - Component Details (continued)

Zetrouer, Bill & Karen Residence
 1262 SW Bluff Drive
 Fort White, FL

Project Title:
 708081 Cason Construction

Class 3 Rating
 Registration No. 0
 Climate: North

12/17/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	23180 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	23180 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	23180 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2700 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	3100 Btuh
	TOTAL GAIN	26281 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)



For Florida residences only

Residential Window Diversity

MidSummer

Zetrouer, Bill & Karen Residence
1262 SW Bluff Drive
Fort White, FL

Project Title:
708081 Cason Construction

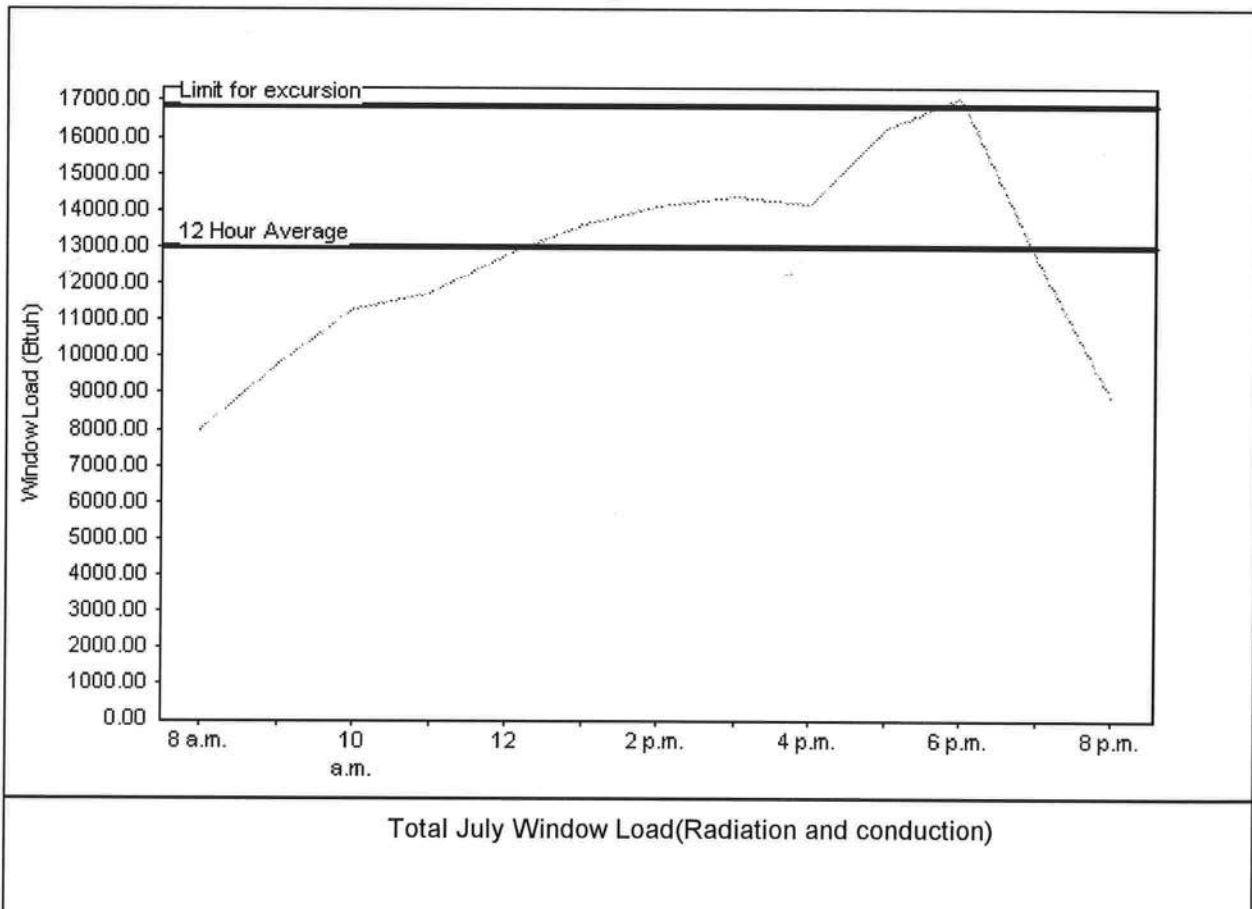
Class 3 Rating
Registration No. 0
Climate: North

12/17/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	12981 Btu
Summer setpoint	75 F	Peak window load for July	17055 Btu
Summer temperature difference	17 F	Excursion limit (130% of Ave.)	16875 Btu
Latitude	29 North	Window excursion (July)	181 Btu/h

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only
PREPARED BY: *[Signature]*
DATE: *12-17-07*





0712-89

- District No. 1 - Ronald Williams
- District No. 2 - Dewey Weaver
- District No. 3 - Jody DuPree
- District No. 4 - Stephen E. Bailey
- District No. 5 - Scarlet P. Frisina



BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

26640

MEMO OF REVIEW FOR CORRECTNESS AND COMPLETION

In accordance with participation in the NFIP/CRS program, all elevation certificates are required to be reviewed for correctness and completion prior to acceptance by the community. This completed form shall be attached to all elevation certificates maintained on file and provided with requested copies of elevation certificates.

- The attached elevation certificate requires corrections by the surveyor of section(s) _____ prior to acceptance by the community.
- The attached elevation certificated is complete and correct.
- Minor corrections have been made in the below marked sections by the authorized Community Official.

SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name <i>William & Karen Zetrouer</i>	For Insurance Company Use:
	Policy Number
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.	Company NAIC Number
City _____ State _____ ZIP Code _____	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) <i>18-75-16-04236-039</i>	
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) _____	
A5. Latitude/Longitude: Lat. _____ Long. _____	Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.	
A7. Building Diagram Number _____	
A8. For a building with a crawl space or enclosure(s), provide:	A9. For a building with an attached garage, provide:
a) Square footage of crawl space or enclosure(s) _____ sq ft	a) Square footage of attached garage _____ sq ft
b) No. of permanent flood openings in the crawl space or enclosure(s) walls within 1.0 foot above adjacent grade _____	b) No. of permanent flood openings in the attached garage walls within 1.0 foot above adjacent grade _____
c) Total net area of flood openings in A8.b _____ sq in	c) Total net area of flood openings in A9.b _____ sq in

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number		B2. County Name		B3. State	
B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input type="checkbox"/> FIS Profile <input type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other (Describe) _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other (Describe) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? Designation Date _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA <input type="checkbox"/> Yes <input type="checkbox"/> No					

COMMENTS: _____

Date of Review: _____

6-23-10

BOARD MEETS FIRST THURSDAY AT 7 00 P.M.
AND THIRD MONDAY AT 10 00 P.M.

Community Official

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

26640

SECTION A - PROPERTY INFORMATION		For Insurance Company Use:
A1. Building Owner's Name William & Karen Zetrouer	Policy Number	
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1262 SW Bluff Drive City Ft. White State FL ZIP Code 32038	Company NAIC Number	
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) Lot 3 in Unit 5 of Cedar Springs Shores		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) <u>Residential</u>		
A5. Latitude/Longitude: Lat. <u>29°53.069</u> Long. <u>82°45.096</u>		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input checked="" type="checkbox"/> NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number <u>5</u>		
A8. For a building with a crawlspace or enclosure(s):		A9. For a building with an attached garage:
a) Square footage of crawlspace or enclosure(s) <u>N/A</u> sq ft	a) Square footage of attached garage <u>n/a</u> sq ft	
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade <u>N/A</u>	b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade <u>n/a</u>	
c) Total net area of flood openings in A8.b <u>N/A</u> sq in	c) Total net area of flood openings in A9.b <u>n/a</u> sq in	
d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	d) Engineered flood openings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number Columbia 120070		B2. County Name Columbia		B3. State FL	
B4. Map/Panel Number 12023C469C	B5. Suffix C	B6. FIRM Index Date Feb 04, 2009	B7. FIRM Panel Effective/Revised Date Feb 04, 2009	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 35.00 Feet
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input checked="" type="checkbox"/> Other (Describe) <u>See Attached</u>					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other (Describe) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date <u>N/A</u> <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: Construction Drawings* Building Under Construction* Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.
Benchmark Utilized See Comments Vertical Datum NAVD 88
Conversion/Comments See Attached sheet


Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor) <u>39.05</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor <u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only) <u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab) <u>N/A</u>	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) <u>36.2</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG) <u>22.6</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG) <u>26.2</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support <u>21.1</u>	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.

Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor? Yes No

Certifier's Name L. Scott Britt	License Number PSM 5757
Title Chief Surveyor	Company Name Britt Surveying & Associates, Inc.
Address 830 W. Duval St.	City Lake City State FL ZIP Code 32055
Signature 	Date 06/18/09 Telephone 386-752-7163



IMPORTANT: In these spaces, copy the corresponding information from Section A.	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1262 SW Bluff Drive	Policy Number
City Ft. WhiteState FL ZIP Code 32038	Company NAIC Number

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments L-19928
See Attached comments sheet

Signature	Date	<input type="checkbox"/> Check here if attachments
-----------	------	--

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

- E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
 a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the HAG.
 b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____ feet meters above or below the LAG.
- E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____ feet meters above or below the HAG.
- E3. Attached garage (top of slab) is _____ feet meters above or below the HAG.
- E4. Top of platform of machinery and/or equipment servicing the building is _____ feet meters above or below the HAG.
- E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? Yes No Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, and E are correct to the best of my knowledge.*

Property Owner's or Owner's Authorized Representative's Name			
Address	City	State	ZIP Code
Signature	Date	Telephone	
Comments			

Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8 and G9.

- G1. The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)
- G2. A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.
- G3. The following information (Items G4-G9) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued
-------------------	------------------------	---

- G7. This permit has been issued for: New Construction Substantial Improvement
- G8. Elevation of as-built lowest floor (including basement) of the building: _____ feet meters (PR) Datum _____
- G9. BFE or (in Zone AO) depth of flooding at the building site: _____ feet meters (PR) Datum _____
- G10. Community's design flood elevation _____ feet meters (PR) Datum _____

Local Official's Name	Title
Community Name	Telephone
Signature	Date
Comments	

Check here if attachments

DIAGRAM 3

All split-level buildings that are slab-on-grade, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (excluding garage) is at or above ground level (grade) on at least one side.*

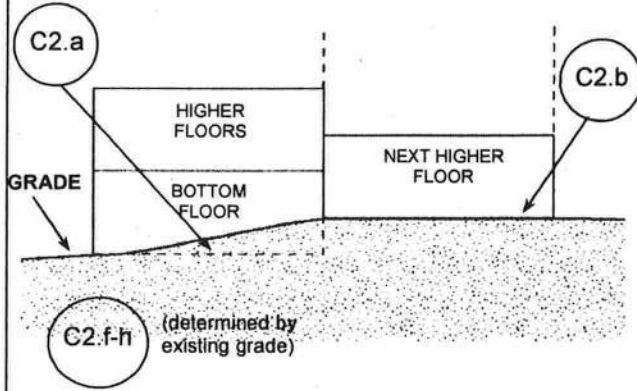


DIAGRAM 4

All split-level buildings (other than slab-on-grade), either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides.*

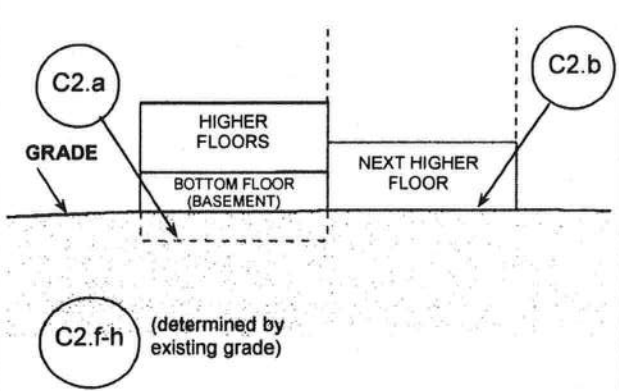


DIAGRAM 5

All buildings elevated on piers, posts, piles, columns, or parallel shear walls. No obstructions below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is open, with no obstruction to flow of flood waters (open lattice work and/or insect screening is permissible).

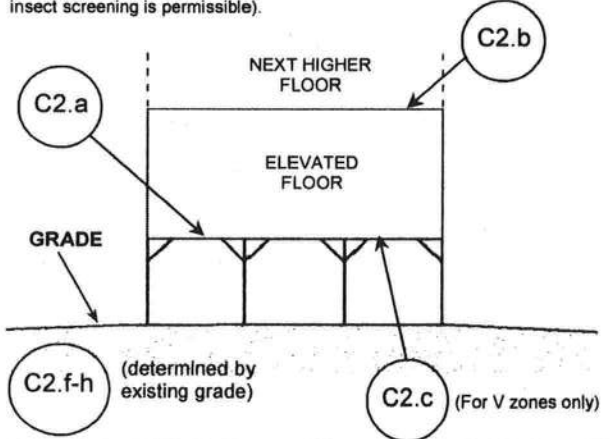
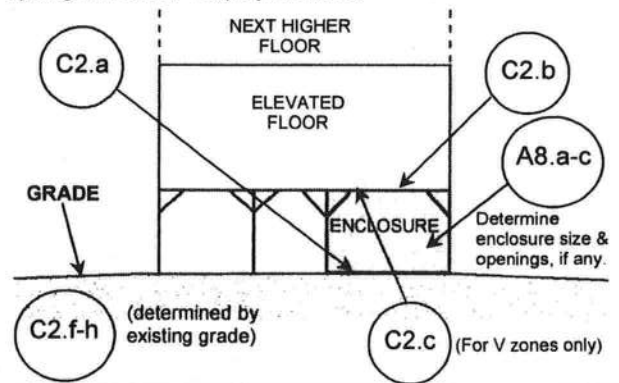


DIAGRAM 6

All buildings elevated on piers, posts, piles, columns, or parallel shear walls with full or partial enclosure below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about enclosure size and openings in Section A – Property Information.



* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

** An "opening" is a permanent opening that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of two openings is required for enclosures or crawlspaces. The openings shall provide a total net area of not less than one square inch for every square foot of area enclosed, excluding any bars, louvers, or other covers of the opening. Alternatively, an Individual Engineered Flood Openings Certification or an Evaluation Report issued by the International Code Council Evaluation Service (ICC ES) must be submitted to document that the design of the openings will allow for the automatic equalization of hydrostatic flood forces on exterior walls. A window, a door, or a garage door is not considered an opening; openings may be installed in doors. Openings shall be on at least two sides of the enclosed area. If a building has more than one enclosed area, each area must have openings to allow floodwater to directly enter. The bottom of the openings must be no higher than one foot above the higher of the exterior or interior grade or floor immediately below the opening. For more guidance on openings, see NFIP Technical Bulletin 1.

Building Photographs

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1262 SW Bluff Drive	For Insurance Company Use: Policy Number
City Ft. White State FL ZIP Code 32038	Company NAIC Number
If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.	

Front View



Building Photographs

Continuation Page

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1262 SW Bluff Drive	For Insurance Company Use: Policy Number
City Ft. White State FL ZIP Code 32038	Company NAIC Number
If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View."	

Rear View





BRITT SURVEYING
Land Surveyors and Mappers

LAKE CITY • VENICE • SARASOTA

Section A

A1 – A4 No additional comment

A5 Hand Held GPS coordinate at the front door of the residence

A6 – A7 No additional comment

A8 No vent openings apparent on the residence.

A9 There is no attached garage.

Section B

B1 – B7 No additional comment

B8 All part of this building appears to be in Zone AE as per the attached flood report and FIRMette.

B9 – B10 The BFE as shown hereon is based on the SRWMD proration sheet and attached flood report for this parcel.

B11 – B12 No additional comment

Section C

C1 No additional comment

C2 A benchmark was used for this parcel is a 6" spike in a cedar tree SE of residence elevation of 32.32 feet NGVD 29. The elevation was converted to NAVD 88 using a program issued by the Corp. of Engineers called Corpscon v6.0. NAVD 88 elevation is 31.57 feet.

C2 a No additional comment

C2 b There appears to be a loft or partial 2nd story in the residence, however, we were unable to enter the residence to acquire the necessary information to provide the elevation. The front photo suggests that there is a second story and the rear confirms that it does not run through the entire residence.

C2 c-d No additional comment

C2 e Electric meter box.

C2 f-h No additional comment

Section D

As shown hereon

Section E

No additional comment

Section F

No additional comment

Section G

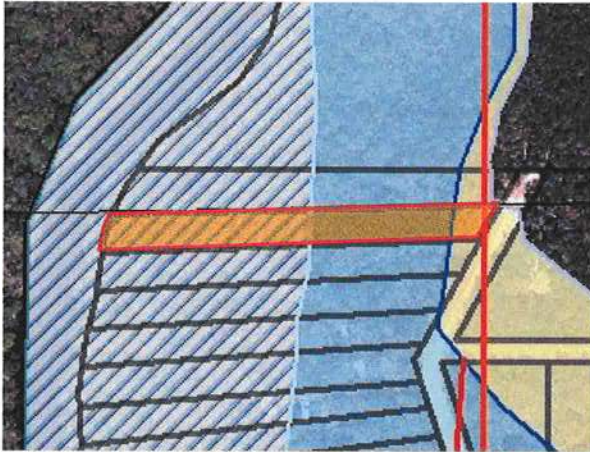
No additional comment

Photographs

No additional comment



**Suwannee River Water Management District
Flood Information Report**



Zone Descriptions:

Base Flood Elevation (BFE)

The elevation shown on the Flood Insurance Rate Map for Zones AE, AH, A1-A30, AR, AO, V1-V30, and VE that indicates the water surface elevation resulting from a flood that has a one percent chance of equaling or exceeding that level in any given year.

AE, A1-A30

Areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. In most instances, base flood elevations derived from detailed analyses are shown at selected intervals within these zones.

0.2 PCT ANNUAL CHANCE FLOOD HAZARD - X (Shaded)

Areas outside the 1-percent annual chance floodplain, areas of 1% annual chance sheet flow flooding where average depths are less than 1 foot, areas of 1% annual chance stream flooding where the contributing drainage area is less than 1 square mile, or

PROFILE

Date: 6/18/2009
Parcel: 18-7S-16-04236-039
County: Columbia
STR: S018 T07S R16E
Status: Effective

FLOOD INFORMATION

FIRM Panel: 12023C0469C,
 12023C0488C
SFHA: Yes
Zone: 0.2 PCT ANNUAL CHANCE
 FLOOD HAZARD, AE
100YR Elev (BFE): 35.0 (feet)
Floodway: Yes
10YR Elev: 29.0 (feet)
2YR Elev: 24.7 (feet)

Outstanding Florida Waters: Santa Fe River System

Note: Elevations are based on NAVD88

areas protected from the 1% annual chance flood by levees. No Base Flood Elevations or depths are shown within this zone. Insurance purchase is not required in these zones. However, detailed studies have been performed, and the area has been determined to be within the 0.2 percent annual chance floodplain.

FLOODWAYS

The channel of a river or other watercourse and the adjacent land areas that must be reserved in order to discharge the base flood (1% annual chance flood event). The floodway must be kept open so that floods can proceed downstream and not be obstructed or diverted onto other properties.

Please note, if you develop within the regulatory floodway, you will need to contact your Local Government and the Suwannee River Water Management District prior to commencing with the activity. Please contact the District at 800.226.1066.

The Federal Emergency Management Agency (FEMA) maintains information about map features, such as street locations and names, in or near designated flood hazard areas. The information herein represents the best available data as of the effective date shown. To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the FEMA Map Service Center at 1-800-358-9616 for information on available products associated with this FIRM panel. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or copies of this map.

Requests to revise flood information in or near designated flood hazard areas may be provided to FEMA during the community review period.

LINKS

FEMA:
<http://www.fema.gov>

SRWMD:
<http://www.srwmd.state.fl.us>

CONTACT

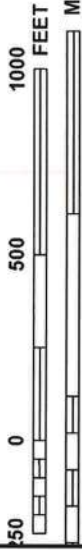
SRWMD
 9225 County Road 49
 Live Oak, FL 32060

(386) 362-1001

Toll Free:
 (800) 226-1066



MAP SCALE 1" = 500'



NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0469C

FIRM
FLOOD INSURANCE RATE MAP
COLUMBIA COUNTY,
FLORIDA
AND INCORPORATED AREAS

PANEL 469 OF 552
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:
COMMUNITY NUMBER 120070
PANEL SUFFIX 0469 C

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

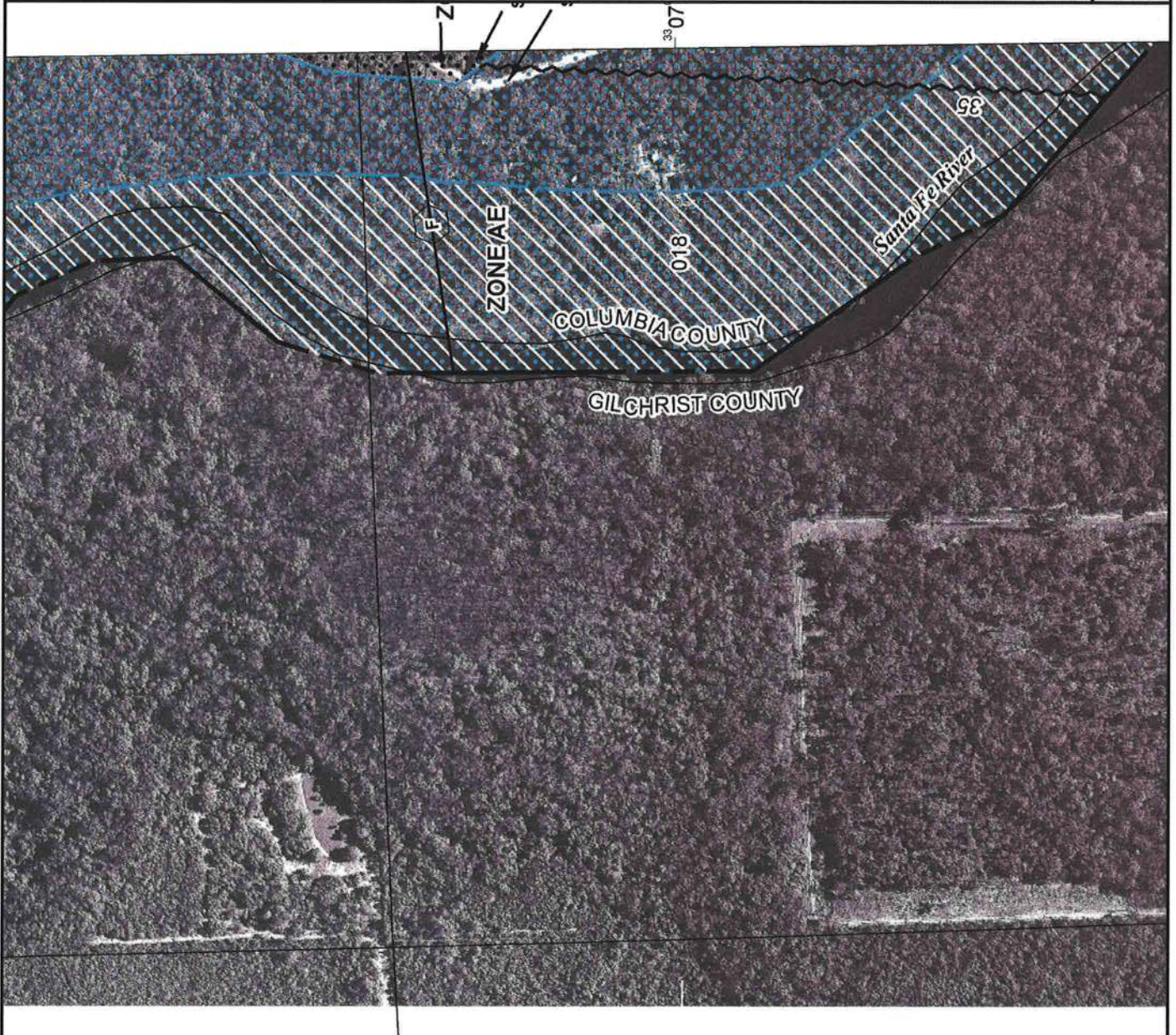


MAP NUMBER
12023C0469C

EFFECTIVE DATE
FEBRUARY 4, 2009

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEIMA Flood Map Store at www.msc.fema.gov



Britt Surveying and Associates, Inc.

L-19928

18 June 2009

INPUT

Geographic, NAD83
Vertical - NGVD29 (Vertcon94), U.S. Feet

OUTPUT

Geographic, NAD83
Vertical - NAVD88, U.S. Feet

6" spike in cedar tree

1/1

Latitude: 29 53.037
Longitude: 82 45.073
Elevation/Z: 32.32

Latitude: 29 53 02.22000
Longitude: 82 45 04.38000
Elevation/Z: 31.572

Remark:

SENDING REPORT

May. 06 2008 09:42AM

YOUR LOGO : COLUMBIA CO BUILDING + ZONING
YOUR FAX NO. : 386-758-2160

NO.	OTHER FACSIMILE	START TIME	USAGE TIME	MODE	PAGES	RESULT
01	813864901048	May. 06 09:41AM	00'41	SND	00	OTHER FAX NOT RESPONDING

RESULT : OTHER FAX NOT RESPONDING

<< POSSIBLE REASON >>

1. RECEIVING FAX BUSY.
2. RECEIVING FAX OUT OF PAPER.
3. POWER FAILURE OR OTHERS.

INSERT DOCUMENT UNTIL YOU HEAR A BEEP
THEN PRESS 'START/[SET]' AFTER CONFIRMING
THE CONNECTING TONE OF RECEIVING.

TO TURN OFF REPORT, PRESS 'MENU' #04.
THEN SELECT OFF BY USING '+' OR '-'.

FOR FAX ADVANTAGE ASSISTANCE, PLEASE CALL 1-800-HELP-FAX (435-7329).



**Columbia County, Florida
Building & Zoning Department**

Number of pages including cover sheet _____
Date 5-6-08

To: Bill Zetrower

Phone: _____
Fax: 386-490-1048

From: Connie Scott

Phone: **386-758-1008**
Fax: **386-758-2160**

Remarks: Urgent For review ASAP Please comment
Would be happy to speak with you if I had a phone # instead of a fax #.

Confidentiality Notice: This facsimile transmission is confidential and is intended only for the review of the party to whom it is addressed. It may contain proprietary and/or privileged information protected by law. If you are not the intended recipient, you may not use, copy or distribute this facsimile message or its attachments. If you have received this transmission in error, please immediately telephone the sender above to arrange for its return.

**Columbia County Building Department
Flood Development Permit**

**Development Permit
F 023- 08-001**

DATE 01/18/2008 BUILDING PERMIT NUMBER 000026640
APPLICANT MATT CASON PHONE 752-8453
ADDRESS 2910 SW CR 242 LAKE CITY FL 32024
OWNER BILL & KAREN ZETROUER PHONE 752-8453
ADDRESS 2910 SW CR 242 LAKE CITY FL 32024
CONTRACTOR MATT CASON PHONE 752-8453
ADDRESS 2910 SW CR 242 LAKE CITY FL 32024
SUBDIVISION CEDAR SPRINGS SHORE Lot 3 Block Unit Phase .00
TYPE OF DEVELOPMENT SFD,UTILITY PARCEL ID NO. 18-7S-16-04236-039

FLOOD ZONE AE BY BK 1-6-88 FIRM COMMUNITY #. 120070 - PANEL #. 0255B
FIRM 100 YEAR ELEVATION 35 PLAN INCLUDED YES or NO
REQUIRED LOWEST HABITABLE FLOOR ELEVATION 36'
IN THE REGULATORY FLOODWAY YES or NO RIVER Santa Fe
SURVEYOR / ENGINEER NAME Knight LICENSE NUMBER 47756

ONE FOOT RISE CERTIFICATION INCLUDED

ZERO RISE CERTIFICATION INCLUDED

SRWMD PERMIT NUMBER _____
(INCLUDING THE ONE FOOT RISE CERTIFICATION)

DATE THE FINISHED FLOOR ELEVATION CERTIFICATE WAS PROVIDED _____

INSPECTED DATE _____ BY _____

COMMENTS _____

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





Load Short Form
Entire House
 Touchstone Heating and Air, Inc.

Job: Zetrouer Residence
 Date: Sep 17, 2007
 By: ell

P.O. Box 327, Lake Butler, Fl 32054 Phone: 386-496-3467 Fax: 386-496-3147

Project Information

For: **Matt Cason**
 32026

Design Information

	Htg	Clg	Method	Infiltration	Simplified Average
Outside db (°F)	33	92	Construction quality		0
Inside db (°F)	68	75	Fireplaces		
Design TD (°F)	35	17			
Daily range	-	M			
Inside humidity (%)	-	50			
Moisture difference (gr/lb)	-	52			

HEATING EQUIPMENT

Make	Trade	Model
Efficiency	80 AFUE	
Heating input	0 Btuh	
Heating output	0 Btuh	
Temperature rise	0 °F	
Actual air flow	1381 cfm	
Air flow factor	0.037 cfm/Btuh	
Static pressure	0.00 in H2O	
Space thermostat		

COOLING EQUIPMENT

Make	Trade	Cond	Coil
Efficiency	0 EER		
Sensible cooling	0 Btuh		
Latent cooling	0 Btuh		
Total cooling	0 Btuh		
Actual air flow	1381 cfm		
Air flow factor	0.044 cfm/Btuh		
Static pressure	0.00 in H2O		
Load sensible heat ratio	0.84		

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
LV/DN/KCHN	818	17556	14017	655	620
Laundry	56	481	305	18	13
MBR	203	3510	5098	131	225
WIC	28	230	112	9	5
Hall	115	839	497	31	22
CL		18	6	1	0
MSTR BATH	154	1500	939	56	42
Bath	38	75	27	3	1
Study	211	3261	3818	122	169
Toilet	17	334	216	12	10
Office	108	1579	1048	59	46
Bath 2	84	991	596	37	26
Open Loft	429	6638	4555	248	201

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.

Entire House	2267	37012	31234	1381	1381
Other equip loads		2991	1453		
Equip. @ 0.97 RSM			31708		
Latent cooling			6117		
TOTALS	2267	40002	37822	1381	1381

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.



Duct System Summary

Entire House

Touchstone Heating and Air, Inc.

Job: Zetrouer Residence
 Date: Sep 17, 2007
 By: ell

P.O. Box 327, Lake Butler, FL 32054 Phone: 386-496-3467 Fax: 386-496-3147

Project Information

For: Matt Cason
 32026

	Heating	Cooling
External static pressure	0.00 in H2O	0.00 in H2O
Pressure losses	0.15 in H2O	0.15 in H2O
Available static pressure	-0.1 in H2O	-0.1 in H2O
Supply / return available pressure	-0.07 / -0.07 in H2O	-0.07 / -0.07 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	1381 cfm	1381 cfm
Total effective length (TEL)		0 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	Rect Size (in)	Duct Matl	Actual Ln (ft)	Fig.Eqv Ln (ft)	Trunk
LV/DN/KCHN-A	h 4389	164	155	0.880	8	0x0	VIFx	0.0	0.0	
LV/DN/KCHN-B	h 4389	164	155	0.880	8	0x0	VIFx	0.0	0.0	
LV/DN/KCHN-C	h 4389	164	155	0.880	8	0x0	VIFx	0.0	0.0	
LV/DN/KCHN	h 4391	164	155	0.880	8	0x0	VIFx	0.0	0.0	
Laundry	h 481	18	13	0.880	4	0x0	VIFx	0.0	0.0	
MBR-A	c 2549	65	113	0.880	6	0x0	VIFx	0.0	0.0	
MBR	c 2549	65	113	0.880	6	0x0	VIFx	0.0	0.0	
WIC	h 230	9	5	0.880	4	0x0	VIFx	0.0	0.0	
Hall	h 839	31	22	0.880	4	0x0	VIFx	0.0	0.0	
CL	h 18	1	0	0.880	4	0x0	VIFx	0.0	0.0	
MSTR BATH	h 1500	56	42	0.880	5	0x0	VIFx	0.0	0.0	
Bath	h 75	3	1	0.880	4	0x0	VIFx	0.0	0.0	
Study	c 3818	122	169	0.880	8	0x0	VIFx	0.0	0.0	
Toilet	h 334	12	10	0.880	4	0x0	VIFx	0.0	0.0	
Office	h 1579	59	48	0.880	5	0x0	VIFx	0.0	0.0	
Beth 2	h 991	37	26	0.880	4	0x0	VIFx	0.0	0.0	
Open Loft-A	h 3319	124	101	0.880	7	0x0	VIFx	0.0	0.0	
Open Loft	h 3319	124	101	0.880	7	0x0	VIFx	0.0	0.0	

Return Branch Detail Table

Name	Grill Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	RectSize (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	0x0	1381	1381	0.0	0.880	633	20	0x 0		VIFx	

Bold/italic values have been manually overridden



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1503
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 375-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Premdor Entry Systems
911 E. Jefferson, P.O. Box 76
Pittsburgh, KS 66762

Your application for Notice of Acceptance (NOA) of:

Entergy 6-8 S/E Inswing Opaque Double w/sidelites Residential Insulated Steel Door
under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0314.23
EXPIRES: 04/02/2006

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/05/2001

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

1.1 This renews the Notice of Acceptance No. 00-0321.25 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

2.1 The Series Entergy 6-8 S/E Inswing Opaque Double Residential Insulated Steel Doors with Sidelites-Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1029-EM-I, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Double Door with Sidelites in Wood Frames with Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/11/00, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

3.1 This approval applies to single unit applications of pair of doors and single door only, as shown in approved drawings. Single door units shall include all components described in the active leaf of this approval.

3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. INSTALLATION

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters):

4.2.1 Door: the installation of this unit will not require a hurricane protection system.

4.2.2 Sidelite: the installation of this unit will require a hurricane protection system.

5. LABELING

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

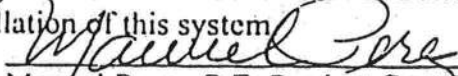
6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

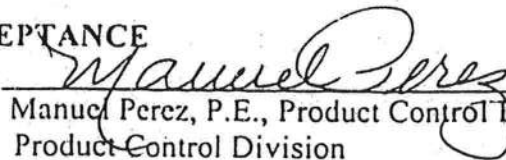
6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system

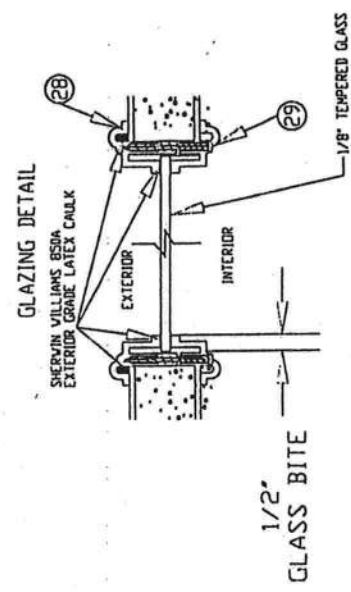
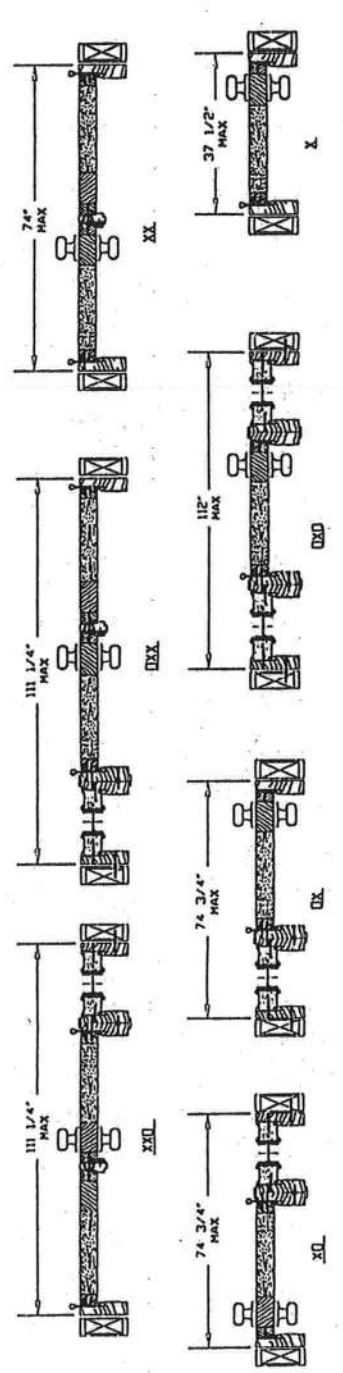
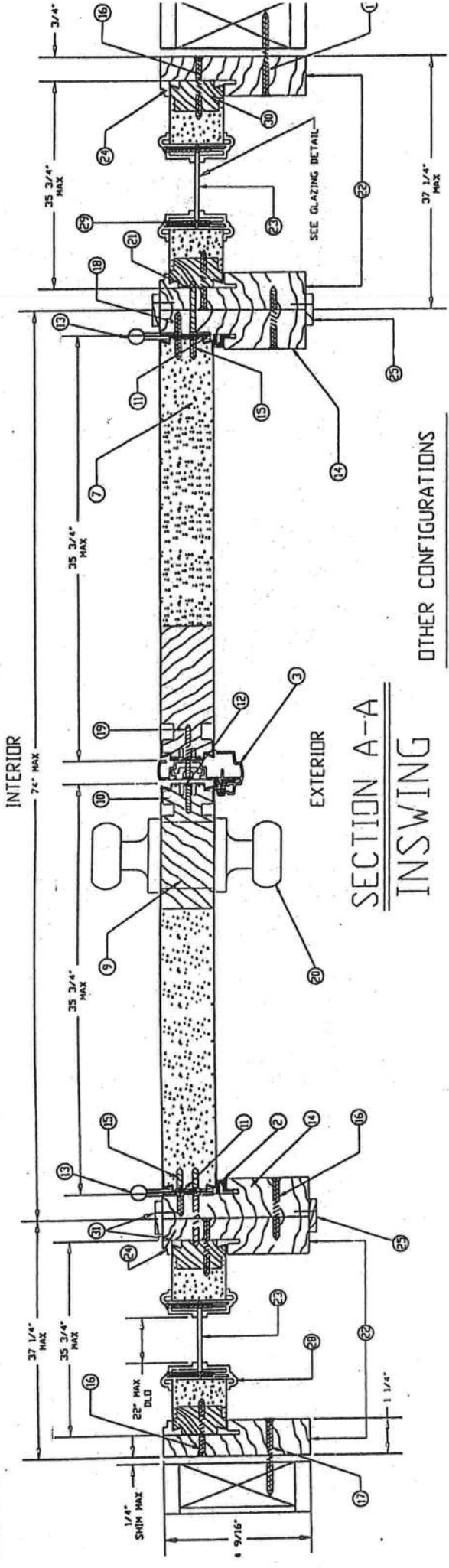

Manuel Perez, P.E. Product Control Examiner
Product Control Division

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

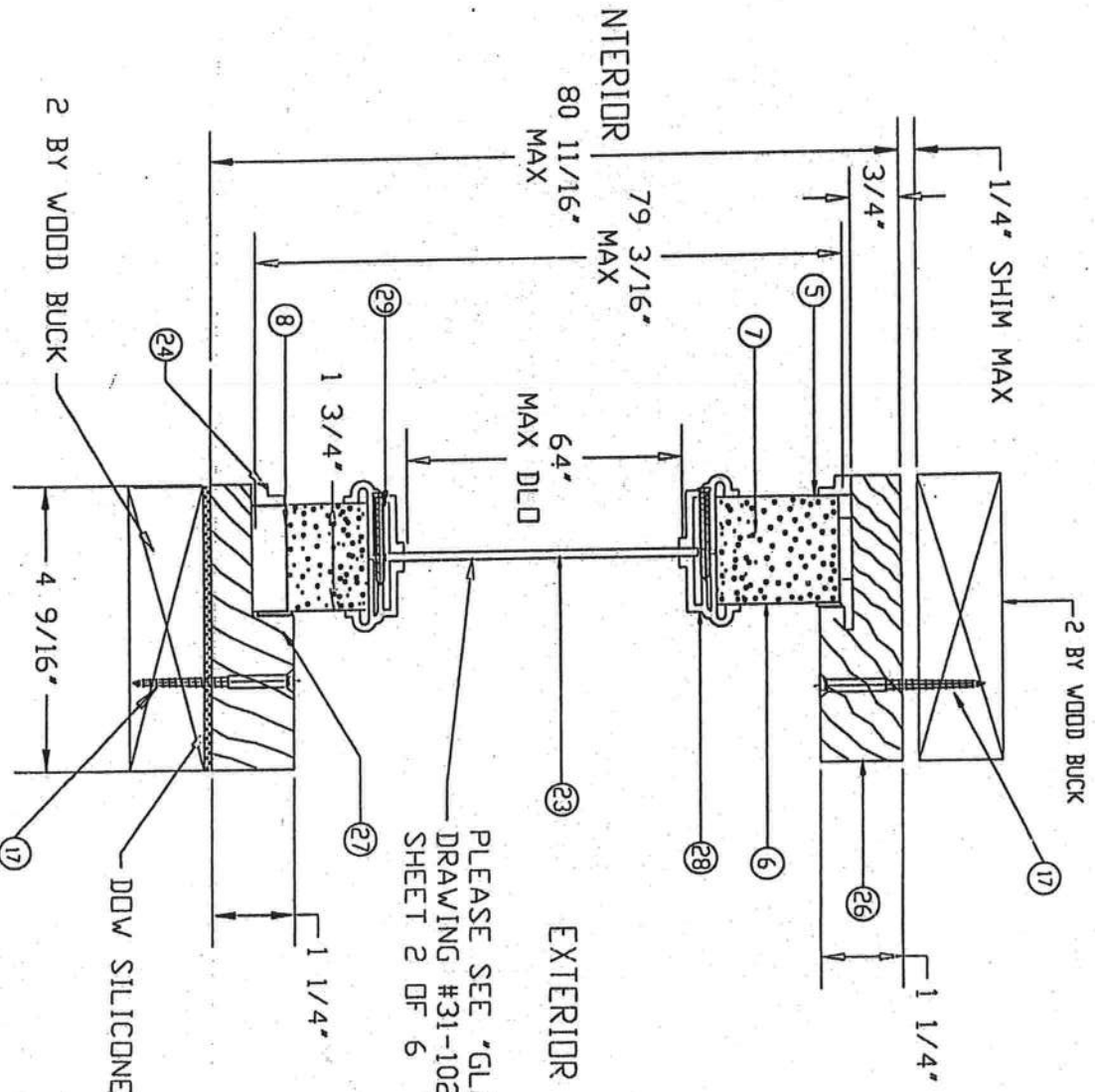
END OF THIS ACCEPTANCE


Manuel Perez, P.E., Product Control Examiner
Product Control Division



DATE	DESCRIPTION
10/15/01	ISSUE 1
10/15/01	ISSUE 2
10/15/01	ISSUE 3
10/15/01	ISSUE 4
10/15/01	ISSUE 5
10/15/01	ISSUE 6
10/15/01	ISSUE 7
10/15/01	ISSUE 8
10/15/01	ISSUE 9
10/15/01	ISSUE 10
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10/15/01	ISSUE 45
10/15/01	ISSUE 46
10/15/01	ISSUE 47
10/15/01	ISSUE 48
10/15/01	ISSUE 49
10/15/01	ISSUE 50

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE: JUN 15 2001
 BY: [Signature]
 PRODUCT GENERAL MANAGER
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0314-23



SECTION C-C

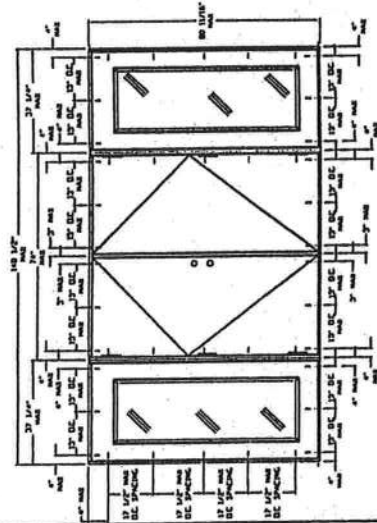
PLEASE SEE 'GLAZING DETAIL'
DRAWING #31-1029-EM-I
SHEET 2 OF 6

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SEALING BUILDING CODE
DATE JUN 05 2005
BY *Signature*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.23

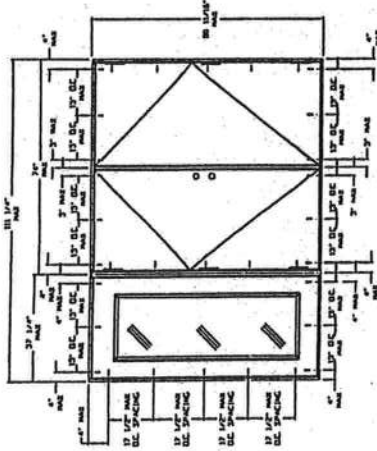
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31-1029-EM-I
SHEET 4 OF 6
REVISION LETTER D

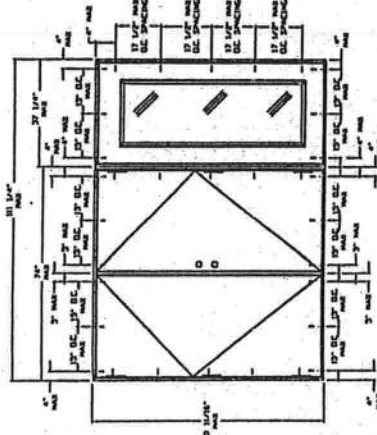
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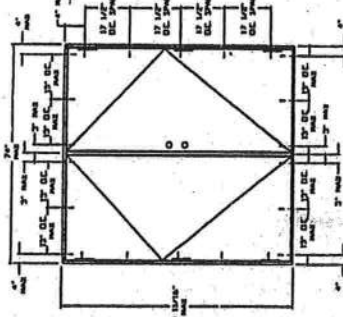
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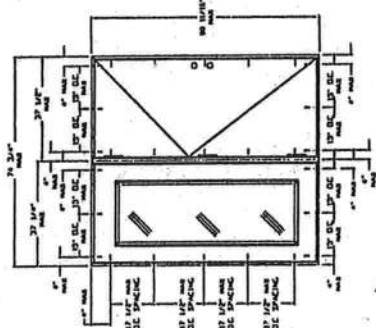
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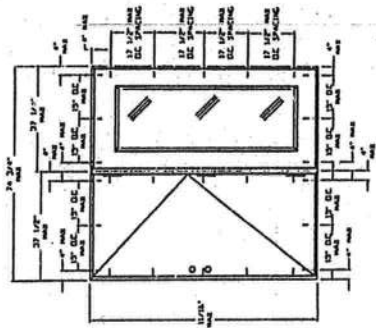
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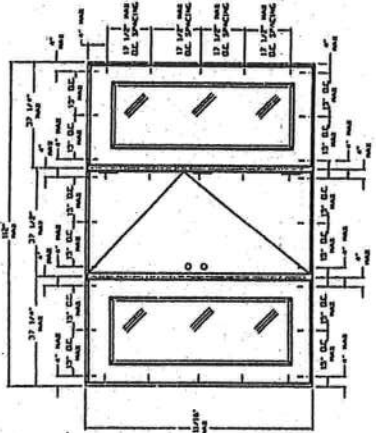
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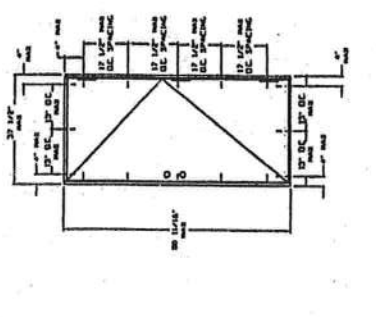
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DXD



DXD



DX

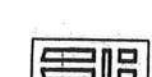
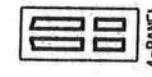
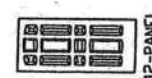
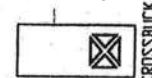
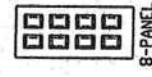
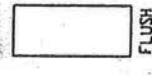
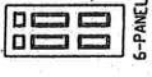
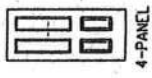
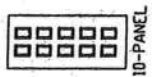
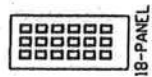
APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE: JUN 05 2007
 BY: *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-03-14-23

LIMITS UNLESS NOTED, FRAC. : DEC. : ANG. :
 EXTRUSIONS UNLESS NOTED, STD. COMPL. 10.5
 ENGINEER:
 DR. BY: J.D. DATE: 11-01
 LIR: PART NAME: SCALE:
 REVISIONS: DATE:
 PREMIOR ENTRY SYSTEMS
 901 E. GATHERN
 PHOENIX, AZ 85026
 31-1029-EM-1
 SHEET 5 OF 6
 REVISION LETTER

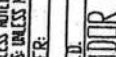
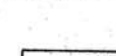
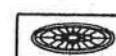
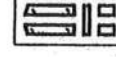
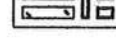
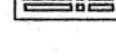
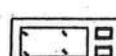
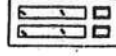
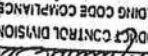
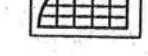
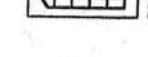
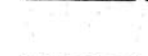
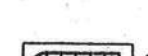
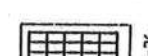
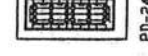
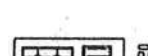
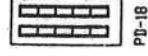
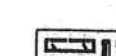
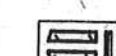
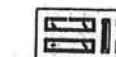
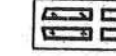
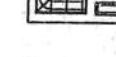
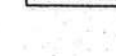
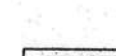
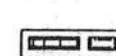
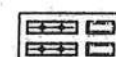
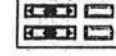
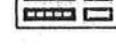
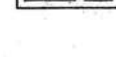
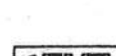
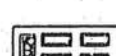
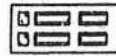
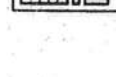
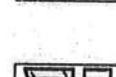
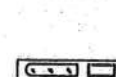
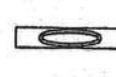
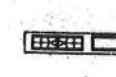
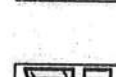
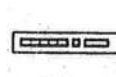
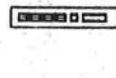
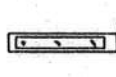
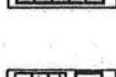
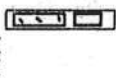
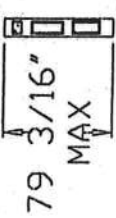
OTHER DOOR PANEL STYLES



BLANK TOP
4-PANEL



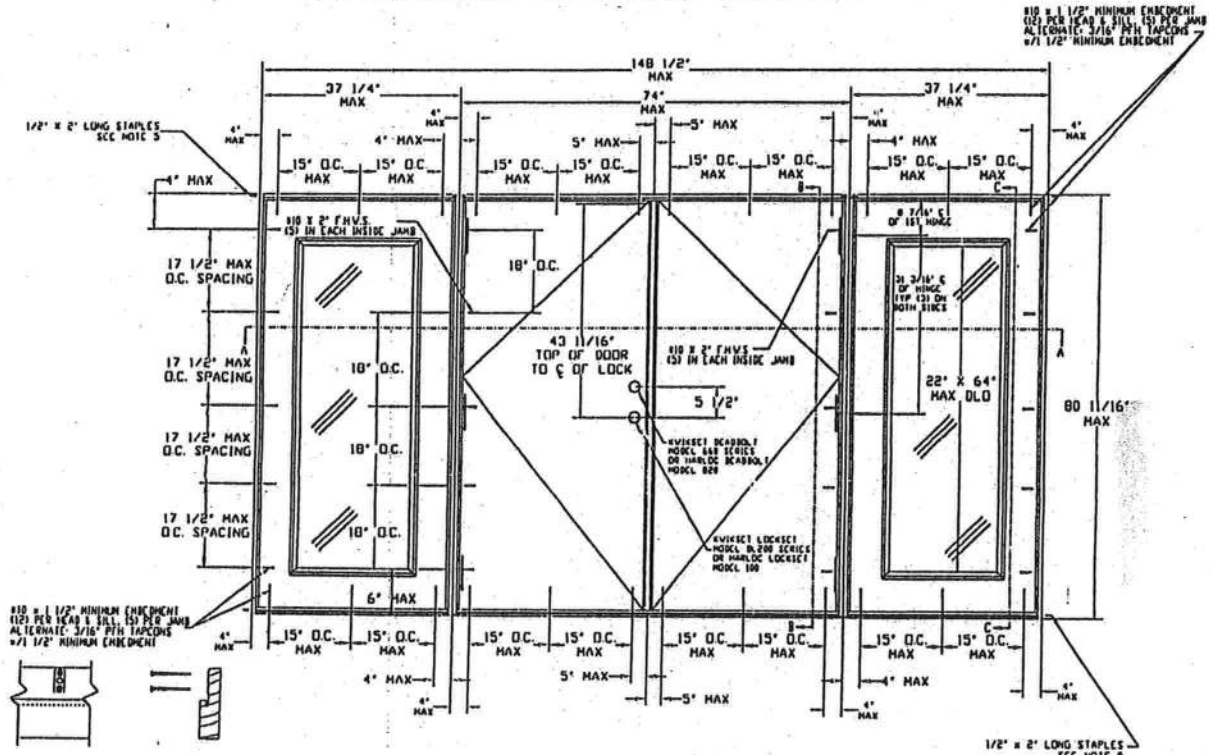
OTHER SIDELITE STYLES



APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE: JUN 05 2001
BY: *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314.22

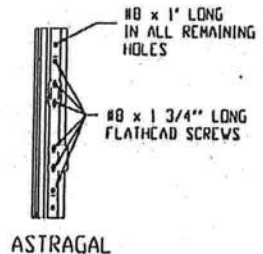
UNITS: UNLESS NOTED, FEET & INCHES	SCALE:
EXCEPT UNLESS NOTED, STEEL COMPL. TO S	
ENGINEER:	
DR. BY: J.L.L. DATE: 1/15/01	
PREMIOR ENTRY SYSTEMS	
911 E. JEFFERSON	
PITTSBURGH, KS 66762	
REVISIONS:	DATE:
LIP: NAME: PRE-HOUR: DOOR: OPTIONS:	
PART:	
31-1029-EM-1	
SHEET 6 OF 6	
REVISION LETTER	

PREMDOR (ENERGY BRAND) DOUBLE DOOR
WITH SIDELITES IN WOOD FRAMES
WITH BUMPER THRESHOLD (INSWING)

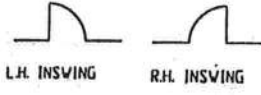


ATTACH ASTRAGAL THROW BOLT STRIKE PLATE TO THE HEADER AND THRESHOLD WITH #10 x 1 3/4\"/>

- NOTES:
- WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.
 - THE PRECEDING DRAWINGS ARE INTENDED TO QUALIFY THE FOLLOWING INSTALLATIONS.
 - WOOD FRAME CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY WOOD OPENING.
 - MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED TO A MINIMUM TWO BY STRUCTURAL WOOD BUCK.
 - MASONRY OR CONCRETE CONSTRUCTION WHERE DOOR SYSTEM IS ANCHORED DIRECTLY TO CONCRETE OR MASONRY WITH OR WITHOUT A NON-STRUCTURAL INC BY WOOD BUCK.
 - ALL ANCHORING SCREWS TO BE #10 WITH MINIMUM 1 1/2\"/>
 - UNIT MUST BE INSTALLED WITH "MIAMI-DADE COUNTY APPROVED" SHUTTERS
 - THREE STAPLES PER SIDE JAMB INTO HEADER ON SIDELITES AND DOOR, THREE STAPLES PER JAMB INTO THRESHOLD ON SIDELITES AND DOOR.
 - LATEX SEALANT TO BE APPLIED AT SIDE BY SIDE AMBS AND SIDELITES.
 - DOOR/SIDELITE HEADER, DOOR/SIDELITE JAMBS, AND SIDELITE BASE CORNERS ARE COPED AND BUTT JOINED.
 - DOORS SHALL BE PRE-PAINTED WITH A WATER-BASED EPOXY RUST INHIBITIVE PRIMER PAINT WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.
 - FRAMES SHALL BE PRE-PAINTED WITH AN ACRYLIC LATEX WATER-BASED/WATER-REDUCIBLE WHITE PRIMER WITH A DRY FILM THICKNESS OF 0.8 TO 1.2 MIL.



ASTRAGAL



	DESIGN PRESSURE RATINGS	
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED *	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED
Positive	NOT APPROVED *	+55.0 psf
Negative	NOT APPROVED *	-55.0 psf

* UNITS SHALL BE INSTALLED ONLY AT LOCATIONS PROTECTED BY A CANOPY OR OVERHANG SUCH THAT THE ANGLE BETWEEN THE EDGE OF CANOPY OR OVERHANG TO SILL IS LESS THAN 45 DEGREES. UNLESS UNIT IS INSTALLED IN NON-HABITABLE AREAS WHERE THE UNIT AND THE AREA ARE DESIGNED TO ACCEPT WATER INFILTRATION.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE JUN 05 2001
BY *Michael Terry*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0314-23

UNITS UNLESS WATER FRAC. : DEC 1 ANG :	C	DADE COUNTY MODIFICATIONS	11/1/00	JG
(EXTRUSIONS UNLESS NOTED, SIG. COM. ILL'S)	B	ADDED PAGE 5 (DOOR OPTIONS)	10-1-99	RS
ENGINEER:	A	ADD OTHER DOOR CONFIGURATIONS	12/1/97	RS
	118	REVISIONS	DATE	BY
DR. BY R.S. [MIL 7-29-97]	PART NAME:	ENERGY BRAND (EBC) DOUBLE DOOR OPERABLES 1		
PREMDOR ENTRY SYSTEMS	MFL:	SCALE: N.T.S.		
911 E. JEFFERSON				
PILLSBURG, KS 66762				

31-1029-EM-1
SHEET 1 OF 6



March 6, 2002

Subject: Elk Product Approval Information

All Prestique® and Capstone® products manufactured in Tuscaloosa, AL are certified under the Miami – Dade County Building Code Office (BCCO). These products also meet the requirements for the Florida Building Code since they are MD approved. The following test protocols must be passed by each of the products in order for MD product certification:

ASTM D3462

PA 100 (110 mph uplift and wind driven rain resistance)

PA 107 (Modified ASTM D3161 - 110 mph wind uplift resistance)

The nailing patterns that were used during the PA 100 and PA 107 wind test protocols for the Prestique and Capstone products are listed below. Also listed below are the Miami – Dade Notice of Acceptance Numbers (NOA).

Raised Profile, Prestique High Definition, Prestique 25, or Prestique 30 –

PA 100 = 4 nails

PA 107 = 5 nails

MD NOA# = 01-1226.04

Prestique I 35 or Prestique I* –

PA 100 = 4 nails

PA 107 = 5 nails

MD NOA# = 01-1226.05

Prestique Plus or Prestique Gallery Collection* –

PA 100 = 4 nails

PA 107 = 4 nails

MD NOA# = 01-1226.03

Capstone*

PA 100 = 4 Nails

PA 107 = 4 Nails

MD NOA# = 01-0523.01

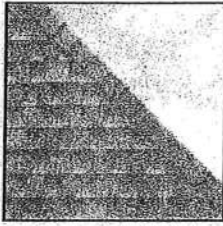
* As per the Elk Limited Warranty, six nails are required for the Elk high wind warranty.

If there are any questions please contact:

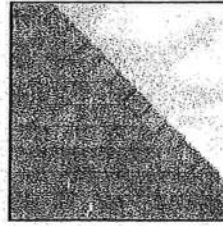
Mike Reed – Technical Manager
(205) 342-0287

or

Daniel DeJarnette – QA Engineer
(205) 342-0298



**PRESTIQUE®
HIGH DEFINITION®**



RAISED PROFILE™

**Prestique Plus High Definition
and Prestique Gallery Collection™**

Product size 13 1/4" x 39 3/8"
Exposure 5 1/2"
Pieces/Bundle 16
Bundles/Square 4/98.5 sq.ft.
Squares/Pallet 11

50-year limited warranty period:
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

Raised Profile

Product size 13 1/4" x 38 1/2"
Exposure 5 1/2"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

30-year limited warranty period:
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

Prestique I High Definition

Product size 13 1/4" x 39 3/8"
Exposure 5 1/2"
Pieces/Bundle 16
Bundles/Square 4/98.5 sq.ft.
Squares/Pallet 14

40-year limited warranty period:
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

HIP AND RIDGE SHINGLES

Seal-A-Ridge® w/FLX™

Size: 12" x 12"
Exposure: 6 1/2"
Pieces/Bundle: 45
Coverage: 4 Bundles = 100 linear feet

Prestique High Definition

Product size 13 1/4" x 38 1/2"
Exposure 5 1/2"
Pieces/Bundle 22
Bundles/Square 3/100 sq.ft.
Squares/Pallet 16

30-year limited warranty period:
non-prorated coverage for
shingles and application labor for
the initial 5 years, plus an option
for transferability*; prorated
coverage for application labor and
shingles for balance of limited
warranty period; 5-year limited
wind warranty*.

Elk Starter Strip

52 Bundles/Pallet
18 Pallets/Truck
936 Bundles/Truck
19 Pieces/Bundle
1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakedown, Sablewood, Hickory, Barkwood**, Forest Green, Wedgewood**, Birchwood**, Sandalwood.
Gallery Collection: Balsam Forest™, Weathered Sage™, Sienna Sunset™.

All Prestique, Raised Profile and Seal-A-Ridge roofing products contain Elk WindGuard® sealant. WindGuard activates with the sun's heat, bonding shingles into a wind and weather resistant cover that resists blow-offs and leaks.

Check for availability with built-in StainGuard® treatment to inhibit the discoloration of roofing granules caused by the growth of certain types of algae. Not available in Sablewood.

All Prestique and Raised Profile shingles meet UL® Wind Resistant (UL 997) and Class "A" Fire Ratings (UL 790); and ASTM Specifications D 3018, Type-I; D 3161, Type-I; E 108 and the requirements of ASTM D 3462.

All Prestique and Raised Profile shingles meet the latest Metro Dade building code requirements.

*See actual limited warranty for conditions and limitations.
**Check for product availability.

SPECIFICATIONS

SCOPE: Work includes furnishing all labor, materials and equipment necessary to complete installation of (name) shingles specified herein. Color shall be (name of color). Hip and ridge type to be Elk Seal-A-Ridge with formula FLX.

All exposed metal surfaces (flashing, vents, etc.) to be painted with matching Elk roof accessory paint.

PREPARATION OF ROOF DECK: Roof deck to be dry, well-seasoned 1" x 6" (25.4mm x 152.4mm) boards; exterior-grade plywood (exposure 1 rated sheathing) at least 3/8" (9.525mm) thick conforming to the specifications of the American Plywood Association; 7/16" (11.074mm) oriented strandboard; or chipboard. Most fire retardant plywood decks are NOT approved substrates for Elk shingles. Consult Elk Field Service for application specifications over other decks and other slopes.

MATERIALS: Underlayment for standard roof slopes, 4" per foot (101.6/304.8mm) or greater: apply non-perforated No. 15 or 30 asphalt-saturated felt underlayment. For low slopes (4" per foot (101.6/304.8mm) to a minimum of 2" per foot (50.8/304.8mm)), use two plies of underlayment overlapped a minimum of 19". Fasteners shall be of sufficient length and holding power for securing material as required by the application instructions printed on shingle wrapper.

For areas where algae is a problem, shingles shall be (name) with StainGuard treatment, as manufactured by the Elk Tuscaloosa plant. Hip and ridge type to be Seal-A-Ridge with formula FLX with StainGuard treatment.

Complete application instructions are published by Elk and printed on the back of every shingle bundle. All

warranties are contingent upon the correct installation as shown on the instructions. These instructions are the minimum required to meet Elk application requirements. In some areas, building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements less than those contained in its application instructions.

For specifications in CSI format, call 800.354.SPEC (7732) or e-mail specinfo@elkcorp.com.

**SOUTHEAST &
ATLANTIC OFFICE:**
800.945.5551

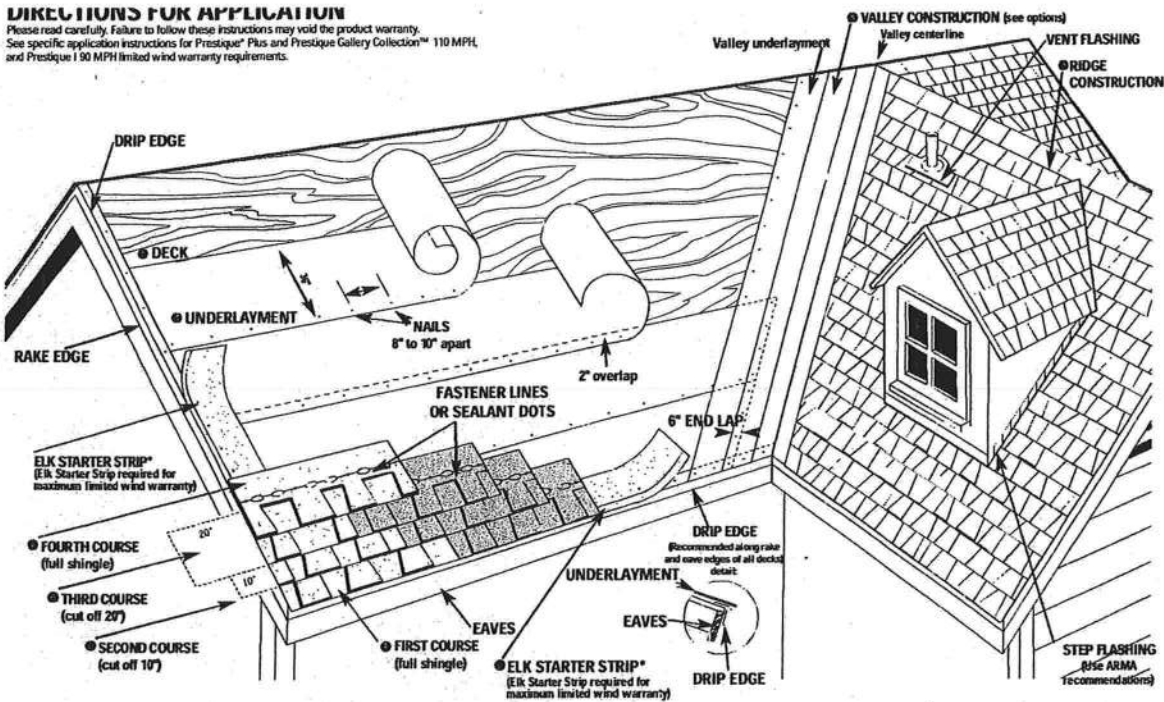
CORPORATE HEADQUARTERS:
800.354.7732

PLANT LOCATION:
800.945.5545

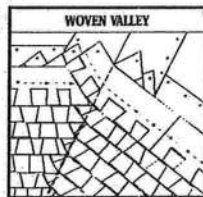


DIRECTIONS FOR APPLICATION

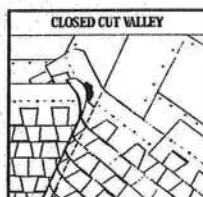
Please read carefully. Failure to follow these instructions may void the product warranty. See specific application instructions for Prestique® Plus and Prestique Gallery Collection™ 110 MPH and Prestique I 90 MPH limited wind warranty requirements.



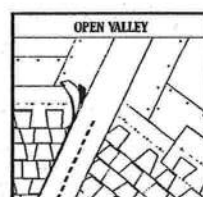
● VALLEY CONSTRUCTION OPTION (California Open and California Closed are also acceptable) NOTE: For complete ARMA valley installation details, see ARMA Residential Asphalt Roofing Manual.



WOVEN VALLEY
VALLEY CENTER LINE



CLOSED CUT VALLEY
VALLEY CENTER LINE



OPEN VALLEY
VALLEY CENTER LINE

DIRECTIONS FOR APPLICATION

These application instructions are the minimum required to meet Elk's application requirements. Your failure to follow these instructions may void the product warranty. In some areas, the building codes may require additional application techniques or methods beyond our instructions. In these cases, the local code must be followed. Under no circumstances will Elk accept application requirements that are less than those printed here. Shingles should not be jammed tightly together. All attics should be properly ventilated. Note: It is not necessary to remove tape on back of shingle.

● DECK PREPARATION

Roof decks should be dry, well-seasoned 1" x 6" boards or exterior grade plywood minimum 3/8" thick and conform to the specifications of the American Plywood Association or 7/16" oriented strandboard, or one layer of a self-adhered eave and flashing membrane.

● UNDERLAYMENT

Apply underlayment (Non-Perforated No. 15 or 30 asphalt saturated felt). Cover drip edge at eaves only. For low slope (2/12 up to 4/12), completely cover the deck with two plies of underlayment overlapping a minimum of 18". Begin by fastening a 19" wide strip of underlayment placed along the eaves. Place a full 36" wide sheet over the starter, horizontally placed along the eaves and completely overlapping the starter strip.

EAVE FLASHING FOR ICE DAMS (ASK A ROOFING CONTRACTOR, REFER TO ARMA MANUAL OR CHECK LOCAL CODES)

For standard slope (4/12 to less than 2/12), use coated roll roofing of no less than 50 pounds over the felt underlayment extending from the eave edge to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

For low slope (2/12 up to 4/12), use a continuous layer of asphalt plastic cement between the two plies of underlayment from the eave edge up roof to a point at least 24" beyond the inside wall of the living space below or one layer of a self-adhered eave and flashing membrane.

Consult the Elk Field Service Department for application specifications over other decks and other slopes.

● STARTER SHINGLE COURSE

USE AN ELK STARTER STRIP OR A STRIP SHINGLE INVERTED WITH THE HEADLAP APPLIED AT THE EAVE EDGE. With at least 4" trimmed from the end of the first shingle, start at the rake edge overhanging the eave 1/2" to 3/4". Fasten 2" from the lower edge and 1" from each side. Shingles may be applied with a course alignment of 45° on the roof.

● FIRST COURSE

Start at rake and continue course with full shingles laid flush with the starter course.

● SECOND COURSE

Start at the rake with the shingle having 10" trimmed off and continue across roof with full shingles.

● THIRD COURSE

Start at the rake with the shingle having 20" trimmed off and continue across roof with full shingles.

● FOURTH COURSE

Start at the rake and continue with full shingles across roof.

FIFTH AND SUCCEEDING COURSES.

Repeat application as shown for second, third, and fourth courses. Do not rack shingles straight up the roof.

● VALLEY CONSTRUCTION

Open, woven and closed cut valleys are acceptable when applied by Asphalt Roofing Manufacturing Association (ARMA) recommended procedures. For metal valleys, use 36" wide underlayment prior to applying 18" metal flashing (secure edge with nails). No nails are to be within 6" of valley center.

● RIDGE CONSTRUCTION

For ridge construction use Class "A" Seal-A-Ridge™ with formula FLX™ (See ridge package for installation instructions.)

FASTENERS

While nailing is the preferred method for Elk shingles, Elk will accept fastening methods according to the following instructions.

Always nail or staple through the fastener line or on products without fastener lines, nail or staple between and in line with sealant dots.

NAILS: Corrosive resistant, 3/8" head, minimum 12-gauge roofing nails. Elk recommends 1-1/4" for new roofs and 1-1/2" for re-roofs. In cases where you are applying shingles to a roof that has an exposed overhang, for new roofs only, 3/4" ring shank nails are allowed to be used from the eave's edge to a point up the roof that is past the outside wall line. 1" ring shank nails allowed for re-roof.

STAPLES: Corrosive resistant, 16-gauge minimum, crown width minimum of 15/16". Note: An improperly adjusted staple gun can result in raised staples that can cause a fish-mouthed appearance and can prevent sealing.

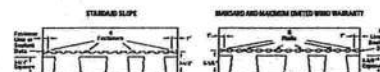
Fasteners should be long enough to obtain 3/4" deck penetration or penetration through deck, whichever is less.

MANSARD APPLICATIONS

Correct fastening is critical to the performance of the roof. For slopes exceeding 60° (or 2/12) use six fasteners per shingle. Locate fasteners in the fastener area 1" from each side edge with the remaining four fasteners equally spaced along the length of the double thickness (laminated) area. Only fastening methods according to the above instructions are acceptable.

LIMITED WIND WARRANTY

- For a Limited Wind Warranty, all Prestique and Raised Profile™ shingles must be applied with 4 properly placed fasteners, or in the case of mansard applications, 6 properly placed fasteners per shingle.
- For a Limited Wind Warranty up to 110 MPH for Prestique Gallery Collection or Prestique Plus or 90 MPH for Prestique I, shingles must be applied with 6 properly placed NAILS per shingle. SHINGLES APPLIED WITH STAPLES WILL NOT QUALIFY FOR THIS ENHANCED LIMITED WIND WARRANTY. Also, Elk Starter Strip shingles must be applied at the eaves and rake edges to qualify Prestique Plus, Prestique Gallery Collection and Prestique I shingles for this enhanced Limited Wind Warranty. Under no circumstances should the Elk Shingles or the Elk Starter Strip overhang the eaves or rake edge more than 3/4 of an inch.



HELP STOP BLOW-OFFS AND CALL-BACKS

A minimum of four fasteners must be driven into the DOUBLE THICKNESS (laminated) area of the shingle. Nails or staples must be placed along – and through – the "fastener line" or on products without fastener lines, nail or staple between and in line with sealant dots. CAUTION: Do not use fastener line for shingle alignment.



REPAIR Note 1: Flatten nail head to prevent interference with next shingle. Drive a second nail nearby.

REPAIR Note 2: Drive another nail nearby. Seal mouth with nail with asphalt plastic cement.

Refer to local codes which in some areas may require specific application techniques beyond those Elk has specified.

All Prestique and Raised Profile shingles have a UL® Wind Resistance Rating when applied in accordance with these instructions using nails or staples on re-roofs as well as new construction.

CAUTION TO WHOLESALE: Careless and improper storage or handling can harm fiberglass shingles. Keep these shingles completely covered, dry, reasonably cool, and protected from the weather. Do not store near various sources of heat. Do not store in direct sunlight until applied. DO NOT DOUBLE STACK. Systematically rotate all stock so that the material that has been stored the longest will be the first to be moved out.

© 2002 Elk Corporation of Dallas.

All trademarks, ®, are registered trademarks of Elk Corporation of Dallas, an ELCOR company. Raised Profile, RidgeCrest, Gallery Collection and FLX are trademarks pending registration of Elk Corporation of Dallas. UL is a registered trademark of Underwriters Laboratories, Inc.

ELK
www.elkcorp.com

Referenced Standard and Year (of Standard)

Standard

ASTM D3462

TAS 107

Equivalence of Product Standards Certified By

Product Approval Method

Method 1 Option A

Date Submitted

09/20/2005

Date Validated

09/27/2005

Date Pending FBC Approval

09/29/2005

Date Approved

10/11/2005

Summary of Products

FL #	Model, Number or Name	Description
1476.1	Elk Prestique Shingles	Laminated Asphalt Shingles
Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: 1) All FBC sections apply except for those pertaining to Miami - Dade and Broward Counties 2) Refer to NOA # 0500706.07 for use in Dade and Broward Counties		Certification Agency Certificate Installation Instruction <u>PTID 1476 R2 I Specs.</u> <u>PTID 1476 R2 I UL Pre.</u> Verified By:

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DCA Administration

Department of Community Affairs

Florida Building Code Online

Codes and Standards

2555 Shumard Oak Boulevard

Tallahassee, Florida 32399-2100

(850) 497-1824, Suncom 277-1824, Fax (850) 414-8436

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Product Approval Accepts:





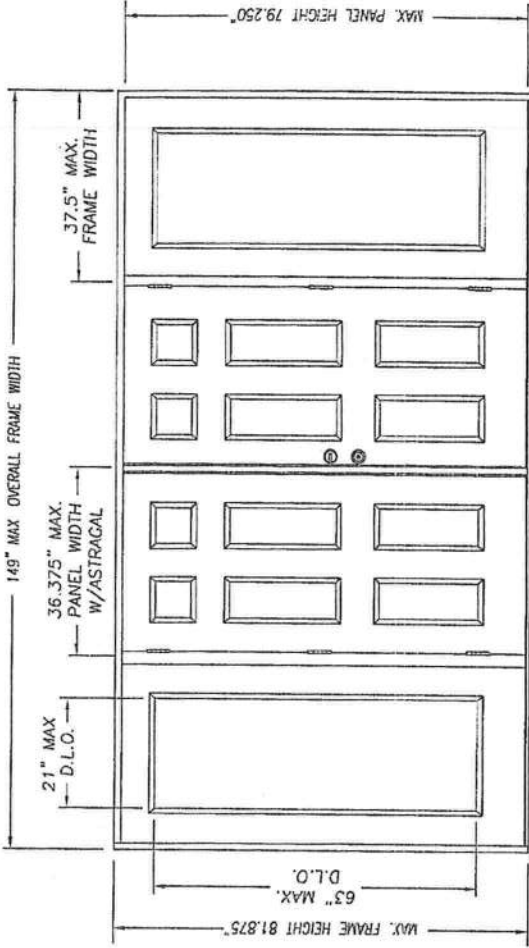
**SIDE-HINGED WOOD-EDGE STEEL DOOR UNIT
6'-8" DOUBLE DOOR WITH / WITHOUT SIDELITES**

GENERAL NOTES

- EVALUATED FOR USE IN LOCATIONS ADHERING TO THE FLORIDA BUILDING CODE AND WIND PRESSURE REQUIREMENTS AS DETERMINED BY ASCE 7. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, DOES NOT EXCEED THE DESIGN PRESSURES LISTED
- HURRICANE PROTECTIVE SYSTEM (SHUTTERS) IS NOT REQUIRED ON OPAQUE PANELS, BUT IS REQUIRED ON GLAZED SIDELITES
- POLYURETHANE CORE FLAME SPREAD INDEX OF 50 AND SMOKE DEVELOPED INDEX OF 60 PER ASTM E84
- PLASTICS TESTING OF LITE FRAME MATERIAL:

TEST DESCRIPTION	DESIGNATION	RESULT
SELF IGNITION TEMP	ASTM D1020	680 °F > 650 °F
RATE OF BURNING	ASTM D635	1.10 IN/MIN
SMOKE DENSITY	ASTM D2843	69.6%
TENSILE STRENGTH*	ASTM D638	-7.48% DIFF

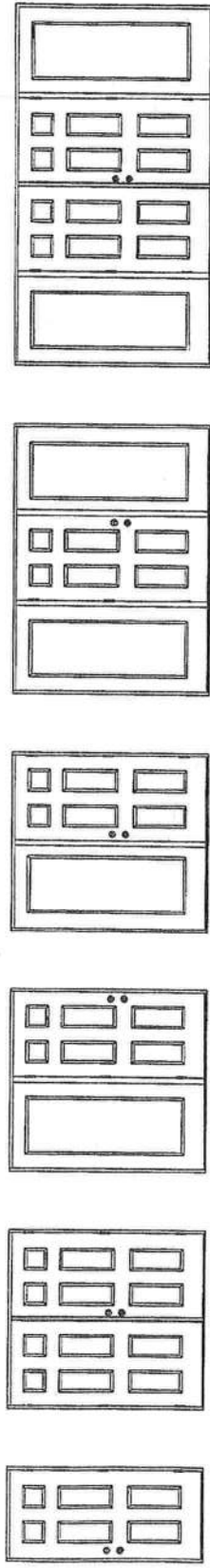
* COMPARATIVE TENSILE STRENGTH AFTER WEATHERING
4500 HOURS XENON ARC METHOD 1



DOUBLE INSWING UNIT W/SIDELITES

Attachment to NWH

Certification No.: N1006110
Reviewed By: [Signature]
Date Reviewed: 8/10/05



SINGLE DOOR UNIT WITH SIDELITE
SINGLE DOOR UNIT W/SIDELITES
DOUBLE DOOR UNIT W/SIDELITES
DOUBLE DOOR UNIT W/SIDELITES

CONFIG	MAX WIDTH	DESIGN PRESSURE RATING		WHERE WATER INFILTRATION PERFORMANCE IS REQUIRED TO BE 15% OF DESIGN PRESSURE	
		INSWING	OUTSWING	INSWING	OUTSWING
X	37.5"	+76.0 / -76.0	+76.0 / -76.0	+19.0 / -19.0	+55.0 / -55.0
XX	74"	+55.0 / -55.0	+55.0 / -55.0	+19.0 / -19.0	+55.0 / -55.0
OX or XO	75"	+55.0 / -55.0	+55.0 / -55.0	+19.0 / -19.0	+55.0 / -55.0
OXO	112.5"	+55.0 / -55.0	+55.0 / -55.0	+19.0 / -19.0	+55.0 / -55.0
OXOX	149"	+55.0 / -55.0	+55.0 / -55.0	+19.0 / -19.0	+55.0 / -55.0

SHEET #	DESCRIPTION
1	TYPICAL ELEVATIONS & GENERAL NOTES
2	ANCHORING LOCATIONS & DETAILS
3	ANCHORING LOCATIONS & DETAILS

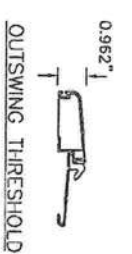
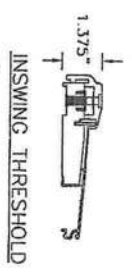
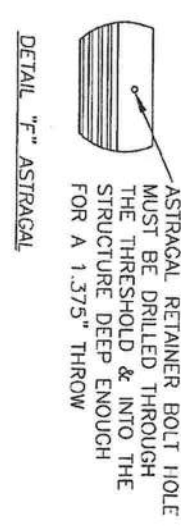
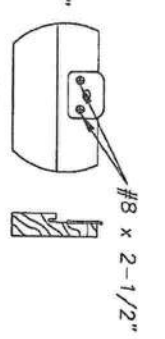
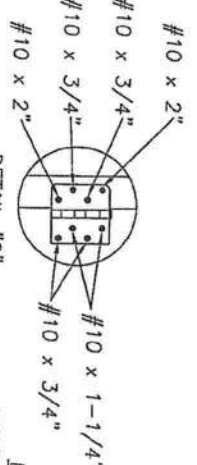
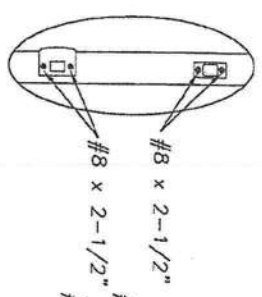
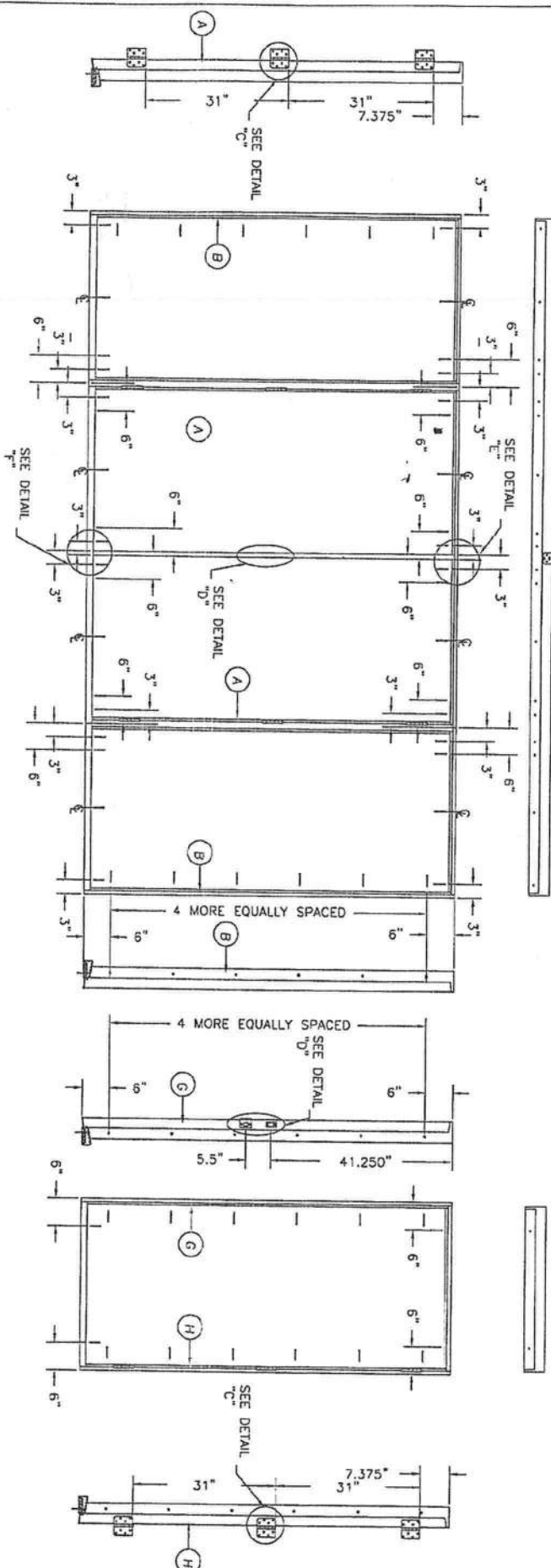
MASONITE INTERNATIONAL CORP.
7300 REAMES RD.
CHARLOTTE, NC 28216

PRODUCT: EXTERIOR DOOR PRODUCT
DOUBLE 6'8" OPAQUE WOOD-EDGE STEEL DOOR
PART OR ASSEMBLY: TYPICAL ELEVATIONS & GENERAL NOTES

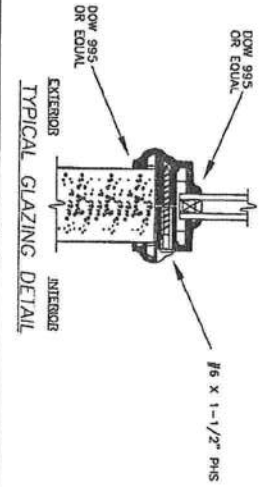
NO.	DATE	REVISIONS

DATE: 7/11/05
SCALE: N.T.S.
DWG. BY: SWS
CHK. BY:
DRAWING NO.:
DWG-MA-F10128-05
SHEET 1 OF 3

FI# 419001.1



Certification No. **NICOLLO**
 Reviewed By **810105**
 Date Reviewed
 Addendum to M44



DATE: 7/11/05	SCALE: N.T.S.	DWG. BY: SWS	CHEK. BY:	DRAWING NO.:	DWG. -M44-110128-05
PRODUCT: "EXTERIOR DOOR PRODUCT" DOUBLE 6"-8" OPAQUE WOOD-EDGE STEEL DOOR					
PART OR ASSEMBLY: ANCHORING LOCATIONS & DETAILS					
NO.	DATE	REVISIONS	BY		

MASONITE INTERNATIONAL CORP.
 7300 REAMES RD.
 CHARLOTTE, NC 28216

Summary of Products		
FL #	Model, Number or Name	Description
7538.1	Classic/5000 Casement Stationary 4040	
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: +60 /-60 Other:		Certification Agency Certificate FL7538_R0_C_CAC_cert_csmt_stat4040R60.pdf Installation Instructions FL7538_R0_II_Cross_section_Classic_csmt_stat_masonry.pdf FL7538_R0_II_Cross_section_csmt_Stat_wood_const.pdf Verified By: National Accreditation & Management Institute,

NOTICE OF PRODUCT CERTIFICATION



CERTIFICATION NO: NI006315A
DATE: 11/18/05
CERTIFICATION PROGRAM: Structural
COMPANY: MW Mfg
CODE: M-410-1

The "Notice of Product Certification" is valid only when Administrator's Seal is applied to the upper left hand portion of this form and a certification label is applied to the product. This certification seal represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The product described below is approved for listing in the Directory of Certified Products at www.NAMICertification.com. Please review, and advise NAMI immediately if data, as shown, requires corrections.

COMPANY NAME AND ADDRESS	PRODUCT DESCRIPTION
MW Manufacturers, Inc. 433 North Main Street Rocky Mount, Virginia 24151	Series "MW Classic/5000" Vinyl Stationary Window Configuration: O Glazing: Insulating Glass-3/16" Annealed Glass STP PSF Frame: W-4'0" Opening: W-3'6" Pos+105.0 H-4'0" H-3'6" Neg-105.0

SPECIFICATION	PRODUCT RATING
AAMA/NWWDA 101/I.S.2-97 ASTM F588-97 Glass Complies to ASTM E1300-02	F-R60 FER-Passed

Product Tested By: Certified Testing Laboratories
 Report No: CTLA-1401W (Structural/FER) Downsized
 Expiration Date: **October 31, 2009**

Administrator's Signature: _____

**NATIONAL ACCREDITATION AND
 MANAGEMENT INSTITUTE, INC.**
 11870 Merchants Walk Suite 202
 Newport News, VA 23606
 TEL: (757) 594-8658
 FAX: (757) 594-8659

Summary of Products

FL #	Model, Number or Name	Description
5085.1	MW Classic / 5000 Serries	Vinyl Casement Window
<p>Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: This product meets the requirements for the state of Florida excluding the "HVHZ". When used in wind-borne debris regions this product is required to be protected with an impact resistant covering that complies with Section 1609.1.4 of the Florida Building Code. Maximum design pressure ratings: 1) C-R50 up to 36" x 72" 2) C-R60 up to 32" x 72".</p>		<p>Certification Agency Certificate Installation Instructions PTID_5085_I MW Classic - 5000 Vinyl Casement.pdf Verified By:</p>

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NOTICE OF PRODUCT CERTIFICATION



CERTIFICATION NO: NI006138
DATE: 08/03/05
CERTIFICATION PROGRAM: Structural
COMPANY: MW Mfg
CODE: M-410-1

The "Notice of Product Certification" is valid only when Administrator's Seal is applied to the upper left hand portion of this form and a certification label is applied to the product. This certification seal represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The product described below is approved for listing in the Directory of Certified Products at www.NAMICertification.com. Please review, and advise NAMI immediately if data, as shown, requires corrections.

COMPANY NAME AND ADDRESS	PRODUCT DESCRIPTION
MW Manufacturers, Inc. 433 North Main Street Rocky Mount, Virginia 24151	Series "MW Classic/5000" Vinyl Casement Window X/IG/REIN/FER Glazing: Insulating Glass-3/16" Annealed Glass <u>STP PSF</u> Frame: W-3'0" Vent: W-2'10" Pos+90.0 H-6'0" H-5'10" Neg-75.0

SPECIFICATION	PRODUCT RATING
AAMA/NWWDA 101/I.S.2-97 ASTM F588-97 Glass Complies to ASTM E1300-94	C-R50 FER-Passed

Product Tested By: Certified Testing Laboratories
 Report No: CTLA-1398W (Structural/FER) Gateway
 Expiration Date: **July 31, 2009**

Administrator's Signature: _____

NATIONAL ACCREDITATION AND
MANAGEMENT INSTITUTE, INC.
 11870 Merchants Walk Suite 202
 Newport News, VA 23606
 TEL: (757) 594-8658
 FAX: (757) 594-8659

Summary of Products		
FL #	Model, Number or Name	Description
5093.1	MW Classic / 5000 Series Casement Twin Unit	Vinyl Casement Twin Unit
<p>Limits of Use (See Other) Approved for use in HVHZ: Approved for use outside HVHZ: Impact Resistant: Design Pressure: +/- Other: This product meets the requirements for the state of Florida excluding the "HVHZ". When used in wind-borne debris regions this product is required to be protected with an impact protective covering that complies with Section 1609.1.4 of the Florida Building Code. This certification describes a twin casement unit. The individual casement units themselves are certified to meet Florida Building Code requirements and are listed under FL5085. Maximum design pressure rating of Dp+/-40 (structural load +/-60 PSF) up to 72" x 72".</p>		<p>Certification Agency Certificate Installation Instructions PTID_5093_I_Vinyl Casement Mullion.pdf Verified By:</p>

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NOTICE OF PRODUCT CERTIFICATION



CERTIFICATION NO: NI006143
DATE: 08/04/05
CERTIFICATION PROGRAM: Structural
COMPANY: MW Mfg
CODE: M-410-1

The "Notice of Product Certification" is valid only when Administrator's Seal is applied to the upper left hand portion of this form and a certification label is applied to the product. This certification seal represents product conformity to the applicable specification and that all certification criteria has been satisfied.

The product described below is approved for listing in the Directory of Certified Products at www.NAMICertification.com. Please review, and advise NAMI immediately if data, as shown, requires corrections.

COMPANY NAME AND ADDRESS	PRODUCT DESCRIPTION
MW Manufacturers, Inc. 433 North Main Street Rocky Mount, Virginia 24151	Series "MW Classic/5000" Vinyl Mulled Twin Outswing Casement Window X/X/IG/REIN/FER Glazing: Insulating Glass-1/8"TempGlass Frame: W-5'11" Vent: W-2'10" H-5'11" H-5'10"
SPECIFICATION	PRODUCT RATING
ASTM E330-02	Design Pressure: +40/-40 psf

Product Tested By: Certified Testing Laboratories
Report No: CTLA-1425W (Structural/FER)
Expiration Date: August 31, 2009

Administrator's Signature: _____

**NATIONAL ACCREDITATION AND
MANAGEMENT INSTITUTE, INC.**

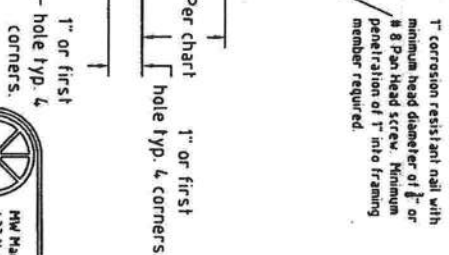
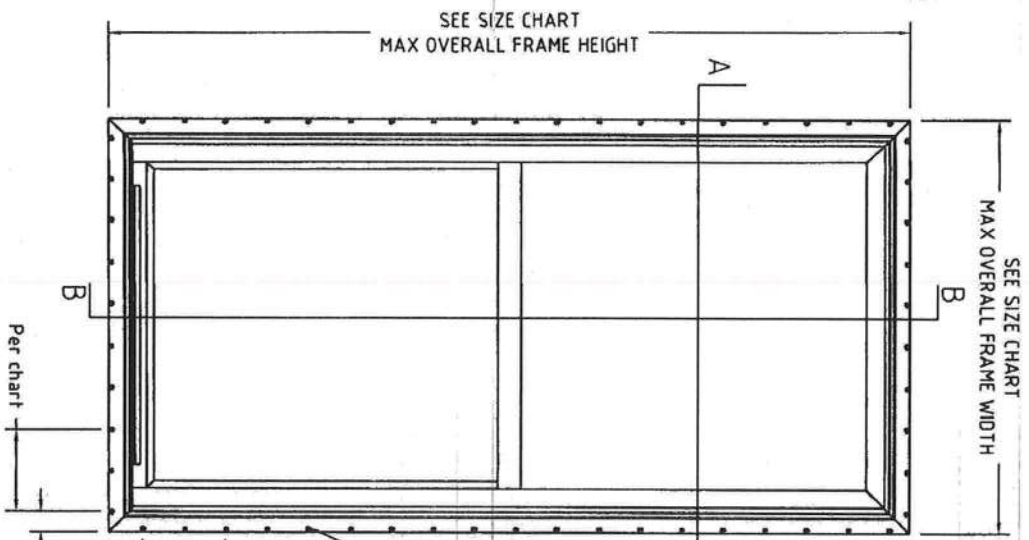
11870 Merchants Walk Suite 202

Newport News, VA 23606

TEL: (757) 594-8658

FAX: (757) 594-8659

- GENERAL NOTES**
- 1) THIS PRODUCT IS DESIGNED TO COMPLY WITH THE FLORIDA BUILDING CODE
 - 2) PRODUCT ANCHORS SHALL BE AS LISTED AND SPACED ON DETAILS
 - 3) FASTENER REQUIREMENTS BASED ON CALCULATIONS AND TEST RESULTS



SECTION A-A

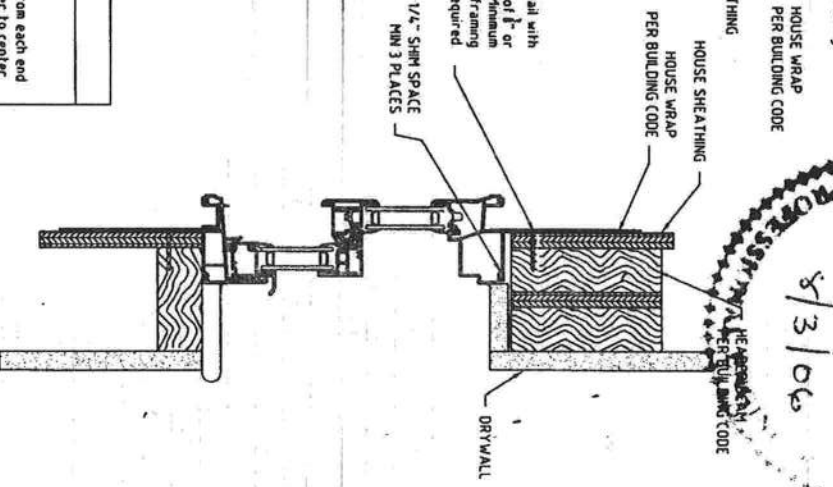
SCALE 1" = 4"

SIZE CHART

Coil Size	Type	Unit dimension	Wood, Shile reinforcement	Alu. Rail reinforcement
34x62	Modular	42" x 77"	No	Yes
20x62	Modular	26" x 77"	Yes	Yes
31x50	Traditional	37" x 59"	No	Yes
30x56	Traditional	36" x 66"	No	Yes
34x62	Modular	42" x 77"	Yes	Yes
34x56	Modular	42" x 69"	Yes	Yes
34x52	Modular	42" x 65"	Yes	Yes
30x62	Modular	38" x 77"	Yes	Yes
30x62	Traditional	36" x 74"	Yes	Yes

PRODUCT FASTENER CHART

LOCATION	FASTENER	SPACING
MAIL FLANGE	T corrosion resistant nail with minimum head diameter of 3/8"	Approximately T or first hole max. from each end then continue approximately T center to center.
OPTIONAL MAIL FLANGE	#8 Pan Head	



SECTION B-B

SCALE 1" = 4"

PHW MANUFACTURERS, INC.
 433 North Main St
 Rocky Mount, VA 24151
 PH: 800-999-8400 FX: 540-484-6683

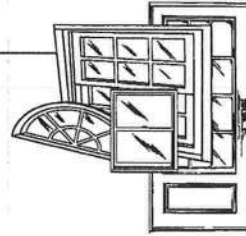
FOR INFORMATION / PURPOSES
 ALL DIMENSIONS ARE CRITICAL UNLESS INDICATED OTHERWISE
 ALL DIMENSIONS ARE CRITICAL UNLESS INDICATED OTHERWISE
 ALL DIMENSIONS ARE CRITICAL UNLESS INDICATED OTHERWISE

NO.	BY:	REV.	ECO #	DATE	DESCRIPTION
1					
2					
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8					
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10					

Donald D. Lytle
 Mr. 012550
 5/3/06
 PROFESSIONAL SEAL
 REGISTERED ARCHITECT
 STATE OF VIRGINIA

CERTIFIED TESTING LABORATORIES

Architectural Division • 7252 Narcoossee Rd. • Orlando, FL 32822
(407) 384-7744 • Fax (407) 384-7751
Web Site: www.ctlarch.com
E-mail: ctlarch.com



Report Number: CTLA-1623W
Report Date: January 8, 2007

STRUCTURAL PERFORMANCE TEST REPORT

Client: MW Manufacturers, Inc.
P.O. Box 559
433 North Main Street
Rocky Mount, VA 24151-0559

Test Specifications: AAMA 450-06 "Voluntary Performance Rating Method for Mullied Fenestration Assemblies"
ASTM E330-02 "Standard Test Method for Structural Performance of Exterior Windows, Doors, Curtain Walls, by Uniform Static Air Pressure Difference"
ASTM E547-00 "Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Cyclic Static Air Pressure Difference"
ASTM E283-04 "Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Doors and Curtain Walls Under Specified Pressure Differences Across the Specimen"

Model and Product Type: Impact and Non-Impact Steel Mullion with Vinyl Fin Frame Classic Casement (3060 Casement Twin) with Nail Fin Clip

Design Pressures: Tested to: +50psf -50psf

Configuration: X/X (Two mullied operable hinged sash units opening to exterior)

Frame: The combined vinyl mullion measured 71.500" wide x 71.500" high. The individual operable casement vinyl fin frames measured 914mm (35.500") wide by 1829mm (71.500") high. The frame head, sill and jamb measured 91mm (3.577") wide x 63mm (2.448") high and utilized fully mitered and welded corner construction with a 51mm (2.000") fin. The combination did not utilize a continuous head and sill. Reference drawing "Vinyl Classic/5000 Series Casement Frame Profile" for complete detail.

Sash: The sash was 854mm (33.625") wide by 1768mm (69.625") high. The corners were mitered and welded. Each sash member contained an "L" shaped free floating aluminum reinforcement. The sash stiles and rails measured 52mm (2.056") wide x 54mm (2.132") high. Reference drawings "Vinyl Classic/5000 Series Casement Sash Profile and Drawing #252986, "Vinyl Classic Casement Sash Reinforcement Profile" for complete detail.

Handwritten signature: [Signature]
Date: 1/8/07

- Mullion:** The mullion consisted of two (2) 11 gage galvanized steel reinforcement bars measuring 69.875" long by 2.750" wide x 0.120" thick. The steel reinforcement bars consist of 0.174" diameter holes spaced every 8" starting approximately 2" from the end of the steel. Each piece of steel was attached to the side jamb of an individual unit using #8 x 0.750" modified truss-head screws in all 8" spaced holes. A 25 gage, 5" wide by 18" long, galvanized steel nail fin clip was attached at each mull opening using five (5) 1.250" drywall screws. The mull consisted of an external and internal mull strip fastened in the accessory grooves. The exterior mull strip was held in with silicone. Reference drawings "252883 HP Mull Steel Reinforcement", "Classic Vinyl Structural Mull Strip" and "Classic Casement Twin Non-Anchored Impact Mull" for complete detail.
- Weather-stripping:** One strip of 6.9mm (.270") diameter dual durometer bulb gasket was located around the entire perimeter of each frame. Each sash employed a dual durometer leaf around the entire perimeter. Reference Drawing #32011, "0.187 x 0.350 T-Slot" for complete detail.
- Hardware:** One continuous lock bar, with three locking points located at 229mm (9.000"), 851mm (33.500") and 1478mm (58.200") was fastened to the lock jamb. Three (3) metallic keepers were attached to the sash and aligned with the three locking points. One (1) Truth™ rotary operator with a four-bar hinge system was located approximately 203mm (8.000") from the right corner of the sill when viewed from the interior. Two (2) snubber systems were located on the sash and frame of the operable unit. One snubber system was located 559mm (22") from the sill and the other snubber system was located 559mm (22") from the header. Reference drawings "Truth Lock Bar Layout Vinyl CA", "Truth Diad Operator with 10" Hinge RM", Maxim Dual Arm Operator ASM RM", "Maxim Dual Arm & Corner Bkt Hole Location Detail RM", "Casement Sash Snubber Location", and "Casement Frame Snubber Location" for complete details.
- Glazing:** Both operable sashes were glazed using 19mm (3/4") insulated glass comprised from two (2) sheets of interior and exterior nominal single strength (SS) 3mm (1/8") annealed glass separated by a metal U-Channel (Intercept™) spacer system. "Classic/5000 Vinyl CA Series Vertical Section Glazing Detail" for complete detail.
- Glazing Material:** Glass to sash was back bedded with (Purfect Glaze™) and a vinyl snap in glazing bead was installed on the exterior perimeter of the sash. Reference drawing "Classic/5000 Casement Glazing Bead Profile" for complete detail.
- Weep System:** NA

Handwritten signature: H.S. Pur P.E.
1/8/07

- Reinforcements:** Each sash member contained one free floating "L" shaped 6061-T4 aluminum reinforcement insert that measure 24mm (0.939") wide x 24mm (0.939") high x 2mm (0.090") thick. Reference drawing "252986, Sash Reinforcement Profile" for complete detail.
- Screen:** N/A
- Installation:** #8 x 19mm (.750") washer head screws were used in every other inner pre-punched hole spaced 25mm (1.000") from each corner and 178mm (6.000") on center thereafter to secure the specimen to the wood test buck. Reference drawing # Classic Casement Twin Non-Anchored Impact Mull for complete detail.
- Surface Finish:** All PVC was white.
- Comments:** Testing was witnessed at MW Manufacturing at the Rocky Mount, VA location. All equipment was calibrated in accordance with AAMA 103. Nominal 2-mil polyethylene film was used to seal against air leakage during structural loads. The film was used in a manner that did not influence the test results.

Performance Test Results

Test Dates: November 21, 2006, November 22, 2006, December 13, 2006 and December 14, 2006

<u>Paragraph</u>	<u>Title of Test</u>	<u>Method</u>	<u>Measured</u>	<u>Allowed</u>
5.3.2	Air Infiltration @ 1.57 psf/ft ²	ASTM E283-04	0.01 cfm/ft ²	0.30 cfm/ft ²
The tested specimen meets or exceeds the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440-05. Results recorded in two decimals at the client's request.				
5.3.3	Water Resistance 5.0 gph/ft ² Four (4) five minute cycles WTP = 9.00 psf Specimen tested without insect screens	ASTM E547-00	No Entry	No Entry
2.1.4.2./4.4.2	Uniform Structural Load	ASTM E330-02		
<i>Deflection (L/175)</i>				
	@ 50.0 psf Positive		7.4mm (0.290")	10.4mm (0.409")
	@ 50.0 psf Negative		6.6mm (0.260")	10.4mm (0.409")
<i>Permanent Set Deformation (0.4% · L)</i>				
Ten (10) Second Load Duration				
	@ 75.0 psf Positive		1.3mm (0.050")	7.3mm (0.286")
	@ 75.0 psf Negative		0.8mm (0.030")	7.3mm (0.286")

K. J. [Signature] P.E.
1/2/07

Remarks: Detailed drawings were available for laboratory records and comparison to the test specimen at the time of the report. A copy of this report along with representative sections of the test specimen will be retained by CTL for a period of four (4) years. The results obtained apply only to the specimen tested.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

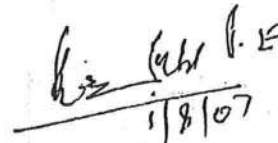
Certified Testing Laboratories assumes that all information provided by the client is accurate and that the physical and chemical properties of the components are as stated by the manufacturer.

Certified Testing Laboratories, Inc.



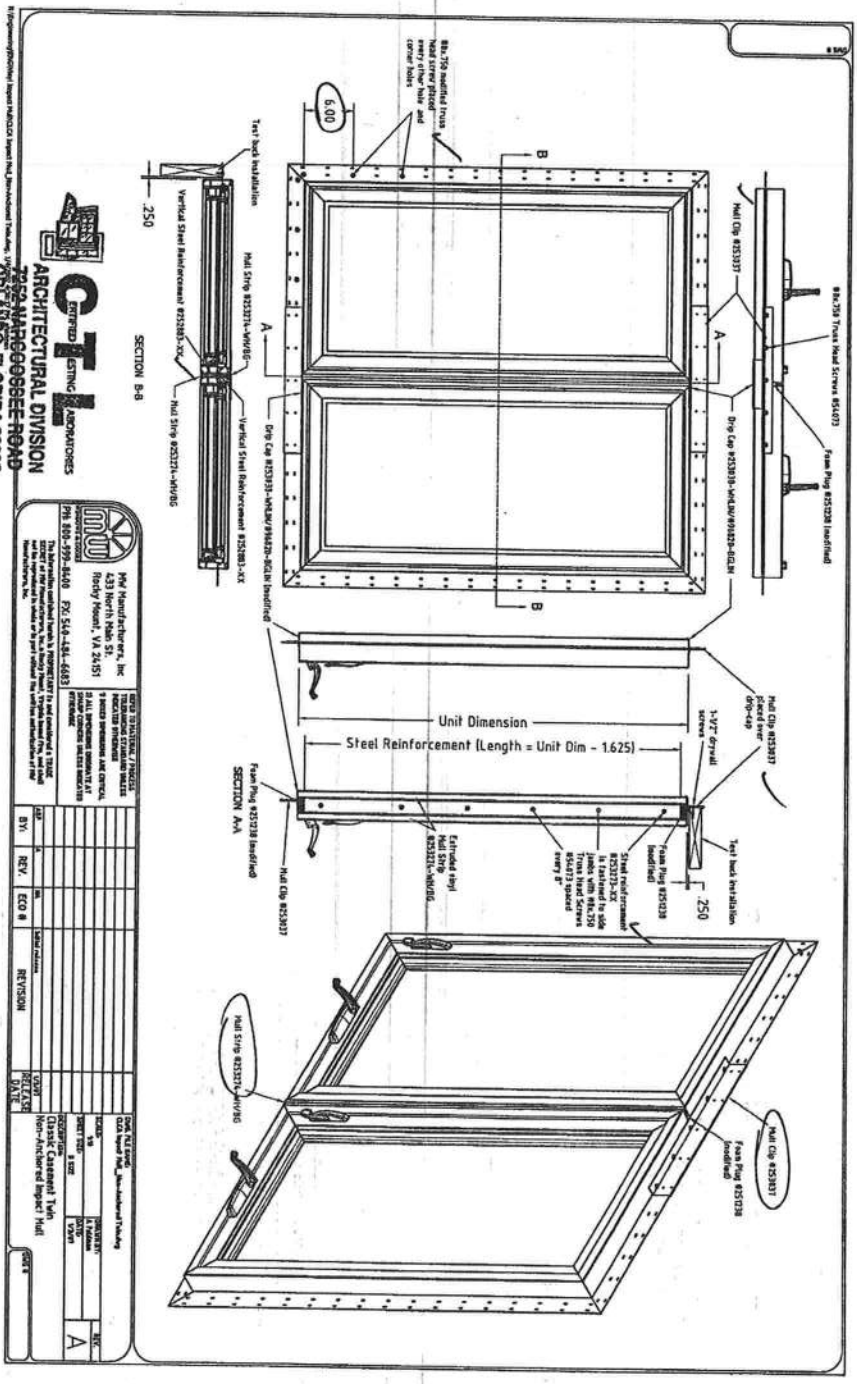
Michael Miller
Senior Lab Technician
Architectural Division

Cc: MW Manufacturers, Inc. (2)
NAMI (2)
Kyle Engineering (1)
PTC, LLC (1)
Ramesh Patel, P.E. (1)
File (1)



Ramesh Patel, P.E.
Florida Reg. # 20224

M



CTIA No. 16250
 Date Verified: 1/10/17
 Verified By: MAM

ARCHITECTURAL DIVISION
 702 N. W. 10th St.
 Ocala, FLORIDA 32222

		MNU Manufacturing, Inc. 423 North Noble St. Rocky Mount, VA 24151 P.O. Box 299, Rocky Mount, VA 24151 P.O. Box 299, Rocky Mount, VA 24151 P.O. Box 299, Rocky Mount, VA 24151	
THIS INFORMATION IS FOR THE ARCHITECT'S USE ONLY. IT IS NOT TO BE USED FOR CONSTRUCTION. THE ARCHITECT IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATION OF THE WINDOW. THE MANUFACTURER'S SPECIFICATIONS AND DRAWINGS SHALL BE REFERENCED FOR ALL DIMENSIONS AND MATERIALS. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE DESIGN AND SPECIFICATION OF THE WINDOW. THE MANUFACTURER'S SPECIFICATIONS AND DRAWINGS SHALL BE REFERENCED FOR ALL DIMENSIONS AND MATERIALS.	1. WINDOW TYPE: DOUBLE HUNG 2. WINDOW MATERIAL: ALUMINUM 3. WINDOW COLOR: WHITE 4. WINDOW FINISH: ANODIZED 5. WINDOW GLASS: CLEAR 6. WINDOW OPERATOR: HAND OPERATED 7. WINDOW WEIGHT: 15 LBS 8. WINDOW HEIGHT: 48 IN 9. WINDOW WIDTH: 48 IN 10. WINDOW AREA: 2304 SQ IN	1. WINDOW TYPE: DOUBLE HUNG 2. WINDOW MATERIAL: ALUMINUM 3. WINDOW COLOR: WHITE 4. WINDOW FINISH: ANODIZED 5. WINDOW GLASS: CLEAR 6. WINDOW OPERATOR: HAND OPERATED 7. WINDOW WEIGHT: 15 LBS 8. WINDOW HEIGHT: 48 IN 9. WINDOW WIDTH: 48 IN 10. WINDOW AREA: 2304 SQ IN	1. WINDOW TYPE: DOUBLE HUNG 2. WINDOW MATERIAL: ALUMINUM 3. WINDOW COLOR: WHITE 4. WINDOW FINISH: ANODIZED 5. WINDOW GLASS: CLEAR 6. WINDOW OPERATOR: HAND OPERATED 7. WINDOW WEIGHT: 15 LBS 8. WINDOW HEIGHT: 48 IN 9. WINDOW WIDTH: 48 IN 10. WINDOW AREA: 2304 SQ IN
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Zero Rise Floodway Study

Zetrouer Zero Rise
Columbia County

The subject property is located on the right bank of the Santa Fe River at River Mile 16.0. The property is located in the 100-year floodway of the River. A HEC-RAS analysis has been performed based on the HEC-2 deck obtained from the Suwannee River Water Management District. Duplicate, Existing and Proposed models depict the floodplain and floodway analyses and compare the stages for each condition. The Duplicate model is a replication of the HEC-2 deck. The existing model is the duplicate model with interpolated cross sections added at the area of interest as described below.


The proposed model blocks all of the flow area in the vicinity of the proposed home. For modeling purposes it was assumed that the home would block 150' of the cross section for a length of 150'. The cross sections at River Miles 15.75 and 16.53 were interpolated to create a cross section at River Mile 16.00 (Exit Section). This cross section was then copied upstream 150 feet (XS 16.01 Downstream Face), upstream 300 feet (XS 16.02 Upstream Face), and upstream 450 feet (XS 16.03 Approach). Cross Sections 16.01 and 16.02 were modified by blocking all flow area between Ground Stations 14723 and 14873. The right top of bank in the model is at Ground Station 14422. Cross section plots are attached.

Comparison of the floodway elevations at the regulatory cross sections upstream of the proposed fill indicates that the fill will not increase the elevation at any of the regulatory floodway cross sections. The fill placed on the property will cause zero rise in the regulatory floodway. Elevations from the duplicate, existing and proposed floodway models are summarized below.

Cross Section	Duplicate Floodway Elevation	Existing Floodway Elevation	Proposed Floodway Elevation
15.75	37.30	37.30	37.30
16.00 Exit	NA	37.37	37.37
16.01 Face	NA	37.38	37.38
16.02 Face	NA	37.39	37.39
16.03 Approach	NA	37.40	37.40
16.53	37.56	37.55	37.55
17.28	37.94	37.92	37.92
17.78	38.25	38.24	38.24

Above Elevations are NGVD 1929 Vertical Datum

The proposed home will be elevated on piles such that the structure's lowest horizontal member is elevation 37.7 feet NGVD 1929 vertical datum (one foot above the 100-year flood elevation).


James M. Knight, P.E.
P.E. Number 47756

8725 - 288th Street
Branford, FL 32008

Phone 386-365-8840

Duplicate

HEC-RAS Plan: Imported Pla River: RIVER-1 Reach: Reach-1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S (ft)	E.G. Elev (ft)	E.G. Slope (ft/m)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach-1	19.62	PF 1	16717.00	17.74	38.53		38.60	0.000069	2.50	22626.33	2299.22	0.10
Reach-1	19.62	PF 2	16717.00	17.74	39.27		39.34	0.000065	2.48	18334.04	1224.00	0.10
Reach-1	18.49	PF 1	16717.00	8.89	37.93		38.04	0.000160	3.62	24418.53	3024.90	0.15
Reach-1	18.49	PF 2	16717.00	8.89	38.67		38.79	0.000161	3.73	18450.38	1587.00	0.15
Reach-1	17.78	PF 1	16717.00	15.15	37.51		37.57	0.000123	2.47	30233.70	3826.16	0.10
Reach-1	17.78	PF 2	16717.00	15.15	38.25		38.32	0.000123	2.53	21588.32	1615.00	0.10
Reach-1	17.28	PF 1	16717.00	13.26	37.21		37.27	0.000094	2.39	30024.29	3409.64	0.09
Reach-1	17.28	PF 2	16717.00	13.26	37.94		38.01	0.000101	2.54	19415.25	1445.65	0.10
Reach-1	16.53	PF 1	16717.00	13.60	36.85		36.90	0.000091	2.38	36739.88	3988.36	0.09
Reach-1	16.53	PF 2	16717.00	13.60	37.56		37.62	0.000095	2.47	25441.09	1668.00	0.09
Reach-1	15.75	PF 1	16717.00	11.90	36.59		36.62	0.000057	1.74	37165.67	5092.67	0.07
Reach-1	15.75	PF 2	16717.00	11.90	37.30		37.34	0.000057	1.77	25881.22	1927.00	0.07

Existing

HEC-RAS Plan: Imported Pla River: RIVER-1 Reach: Reach-1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit. W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach-1	19.62	PF 1	16717.00	17.74	38.53		38.60	0.000069	2.50	22629.94	2299.30	0.10
Reach-1	19.62	PF 2	16717.00	17.74	39.26		39.33	0.000065	2.49	18320.37	1224.00	0.10
Reach-1	18.49	PF 1	16717.00	8.89	37.93		38.04	0.000160	3.62	24424.11	3024.99	0.15
Reach-1	18.49	PF 2	16717.00	8.89	38.66		38.78	0.000162	3.74	18430.19	1587.00	0.15
Reach-1	17.78	PF 1	16717.00	15.15	37.51		37.57	0.000123	2.47	30241.68	3826.32	0.10
Reach-1	17.78	PF 2	16717.00	15.15	38.24		38.31	0.000123	2.53	21565.72	1615.00	0.10
Reach-1	17.28	PF 1	16717.00	13.26	37.21		37.27	0.000094	2.39	30031.92	3410.08	0.09
Reach-1	17.28	PF 2	16717.00	13.26	37.92		38.00	0.000101	2.54	19393.82	1444.96	0.10
Reach-1	16.53	PF 1	16717.00	13.60	36.86		36.91	0.000091	2.38	36749.59	3989.11	0.09
Reach-1	16.53	PF 2	16717.00	13.60	37.55		37.61	0.000095	2.48	25414.59	1668.00	0.09
Reach-1	16.03	PF 1	16717.00	12.45	36.69		36.73	0.000067	1.95	37387.94	5329.15	0.08
Reach-1	16.03	PF 2	16717.00	12.45	37.40		37.44	0.000060	1.89	26637.48	1844.00	0.07
Reach-1	16.02	PF 1	16717.00	12.45	36.68		36.72	0.000068	1.95	37333.36	5325.25	0.08
Reach-1	16.02	PF 2	16717.00	12.45	37.39		37.43	0.000060	1.89	26620.68	1844.00	0.07
Reach-1	15.01	PF 1	16717.00	12.45	36.67		36.71	0.000068	1.96	37278.67	5321.33	0.08
Reach-1	15.01	PF 2	16717.00	12.45	37.38		37.42	0.000061	1.89	26603.86	1844.00	0.07
Reach-1	15.00	PF 1	16717.00	12.45	36.66		36.70	0.000068	1.96	37223.93	5317.41	0.08
Reach-1	15.00	PF 2	16717.00	12.45	37.37		37.41	0.000061	1.89	26587.00	1844.00	0.07
Reach-1	15.75	PF 1	16717.00	11.90	36.59		36.62	0.000057	1.74	37165.67	5092.67	0.07
Reach-1	15.75	PF 2	16717.00	11.90	37.30		37.34	0.000057	1.77	25881.22	1927.00	0.07

Proposed

HEC-RAS Plan: Imported Pla River: RIVER-1 Reach: Reach-1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach-1	19.62	PF 1	16717.00	17.74	38.53		38.60	0.000069	2.50	22631.63	2299.34	0.10
Reach-1	19.62	PF 2	16717.00	17.74	39.26		39.33	0.000065	2.49	18322.41	1224.00	0.10
Reach-1	18.49	PF 1	16717.00	8.89	37.93		38.04	0.000160	3.62	24426.74	3025.04	0.15
Reach-1	18.49	PF 2	16717.00	8.89	38.66		38.76	0.000162	3.74	18433.21	1587.00	0.15
Reach-1	17.78	PF 1	16717.00	15.15	37.51		37.57	0.000123	2.47	30245.43	3826.40	0.10
Reach-1	17.78	PF 2	16717.00	15.15	38.24		38.31	0.000123	2.53	21569.11	1615.00	0.10
Reach-1	17.28	PF 1	16717.00	13.26	37.21		37.27	0.000094	2.39	30035.49	3410.29	0.09
Reach-1	17.28	PF 2	16717.00	13.26	37.92		38.00	0.000101	2.54	19397.03	1445.06	0.10
Reach-1	16.53	PF 1	16717.00	13.60	36.86		36.91	0.000091	2.38	36754.14	3989.47	0.09
Reach-1	16.53	PF 2	16717.00	13.60	37.55		37.61	0.000095	2.48	25418.56	1668.00	0.09
Reach-1	16.03	PF 1	16717.00	12.45	36.69		36.74	0.000067	1.95	37394.28	5329.61	0.08
Reach-1	16.03	PF 2	16717.00	12.45	37.40		37.44	0.000060	1.89	26642.00	1844.00	0.07
Reach-1	16.02	PF 1	16717.00	12.45	36.68		36.72	0.000069	1.98	35525.98	5174.50	0.08
Reach-1	16.02	PF 2	16717.00	12.45	37.39		37.43	0.000064	1.95	24708.32	1693.66	0.08
Reach-1	16.01	PF 1	16717.00	12.45	36.67		36.71	0.000070	1.98	35471.40	5170.48	0.08
Reach-1	16.01	PF 2	16717.00	12.45	37.38		37.42	0.000064	1.95	24691.97	1693.66	0.08
Reach-1	16.00	PF 1	16717.00	12.45	36.66		36.70	0.000068	1.96	37223.93	5317.41	0.08
Reach-1	16.00	PF 2	16717.00	12.45	37.37		37.41	0.000061	1.89	26587.00	1844.00	0.07
Reach-1	15.75	PF 1	16717.00	11.90	36.59		36.62	0.000057	1.74	37165.67	5092.67	0.07
Reach-1	15.75	PF 2	16717.00	11.90	37.30		37.34	0.000057	1.77	25881.22	1927.00	0.07



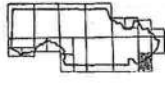
NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

COLUMBIA
COUNTY,
FLORIDA
(UNINCORPORATED AREAS)

PANEL 255 OF 290

PANEL LOCATION



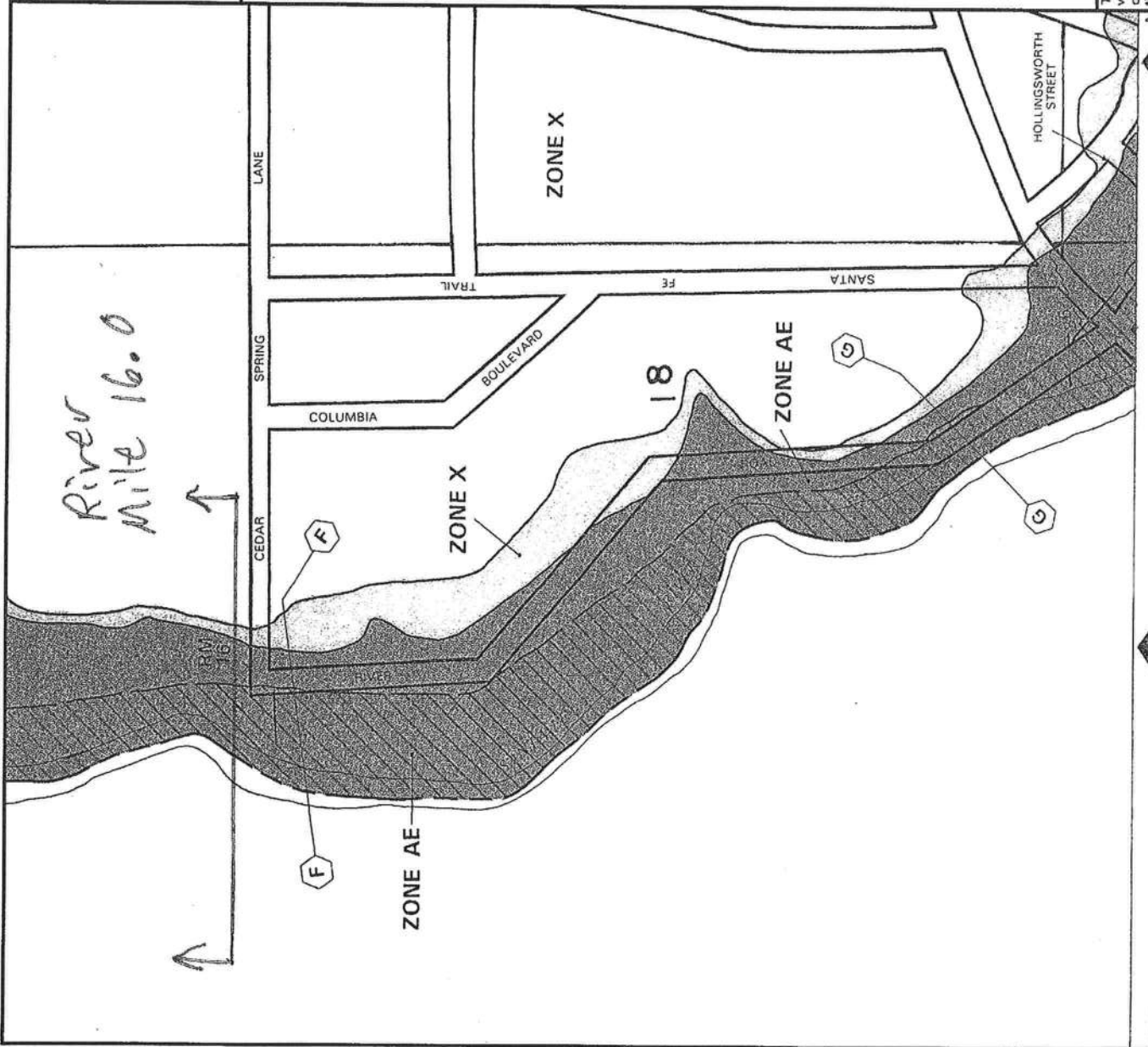
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EFFECTIVE DATE:
JANUARY 6, 1988



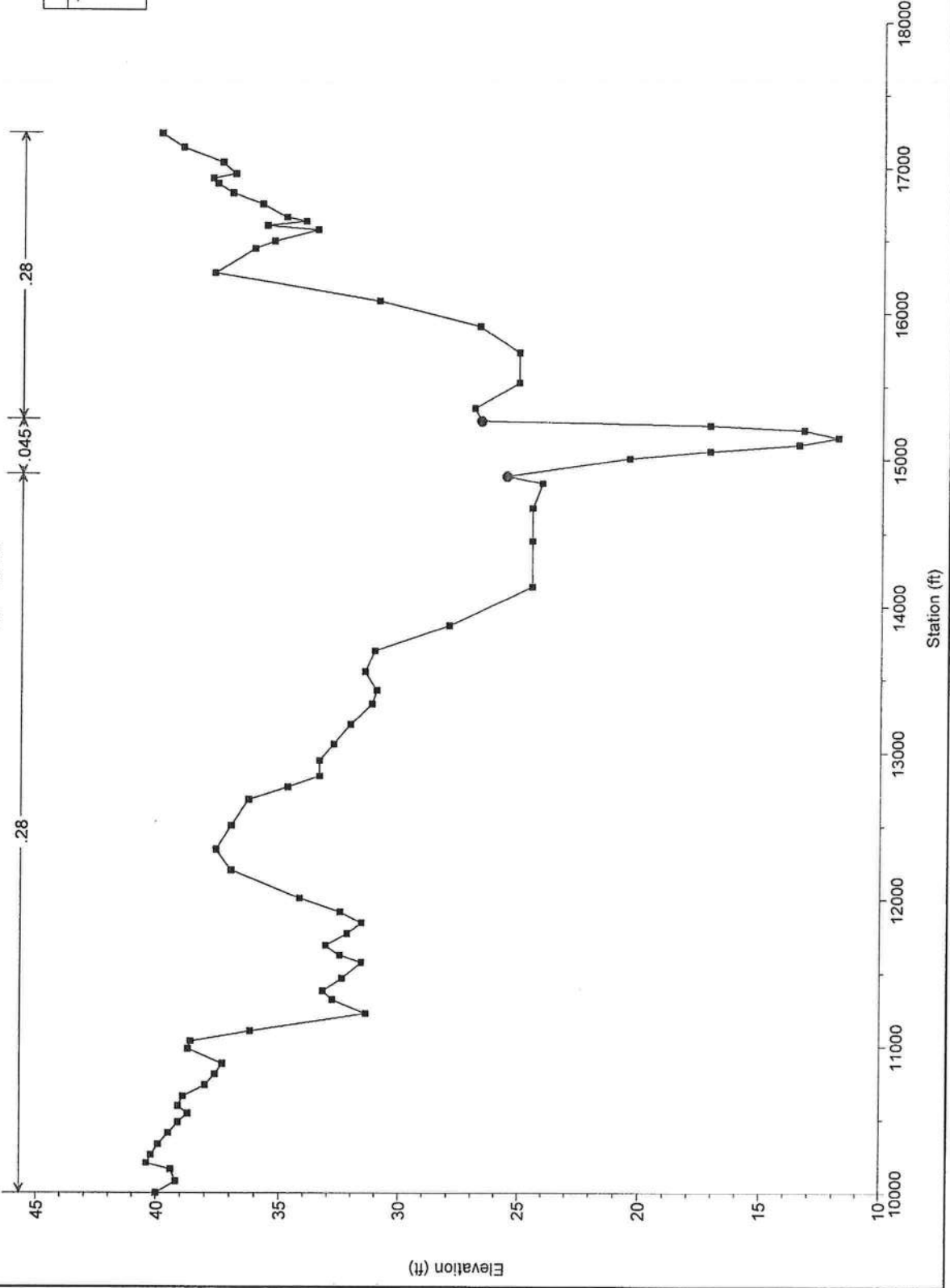
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



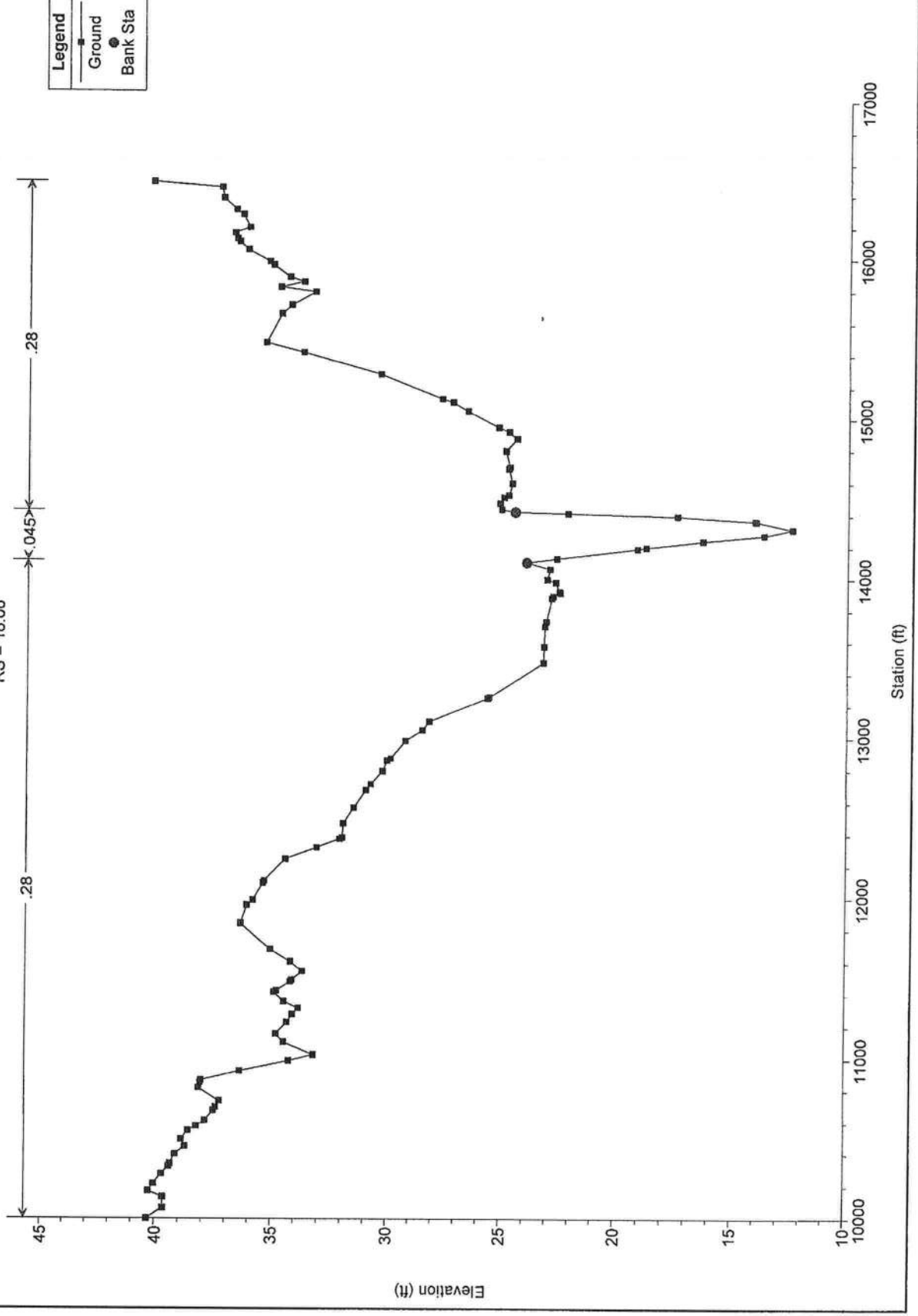
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RS = 15.75



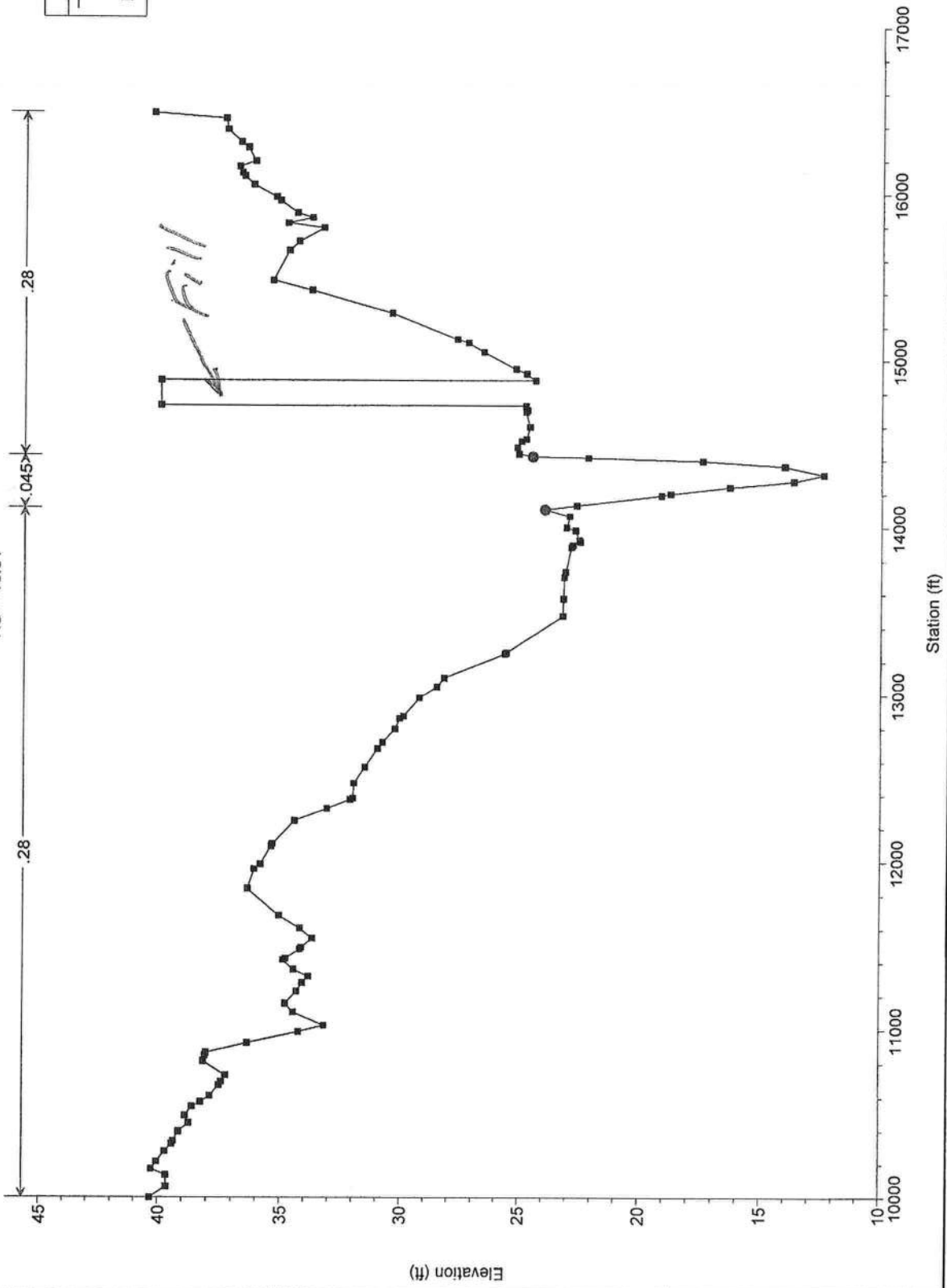
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RS = 16.00



Proposed Plan: Imported Plan 01 12/9/2007

RS = 16.01

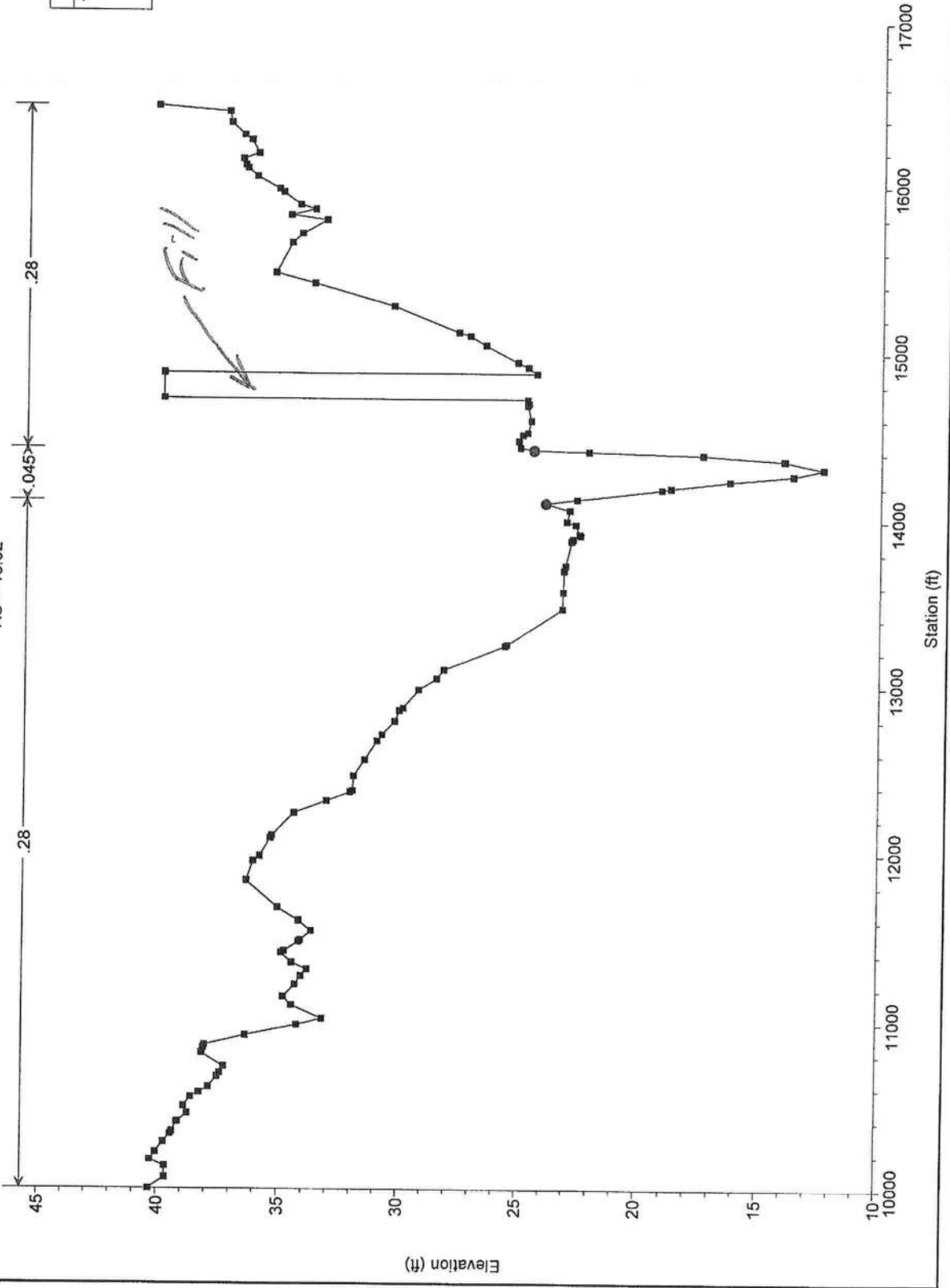


Legend

- Ground
- Bank Sta

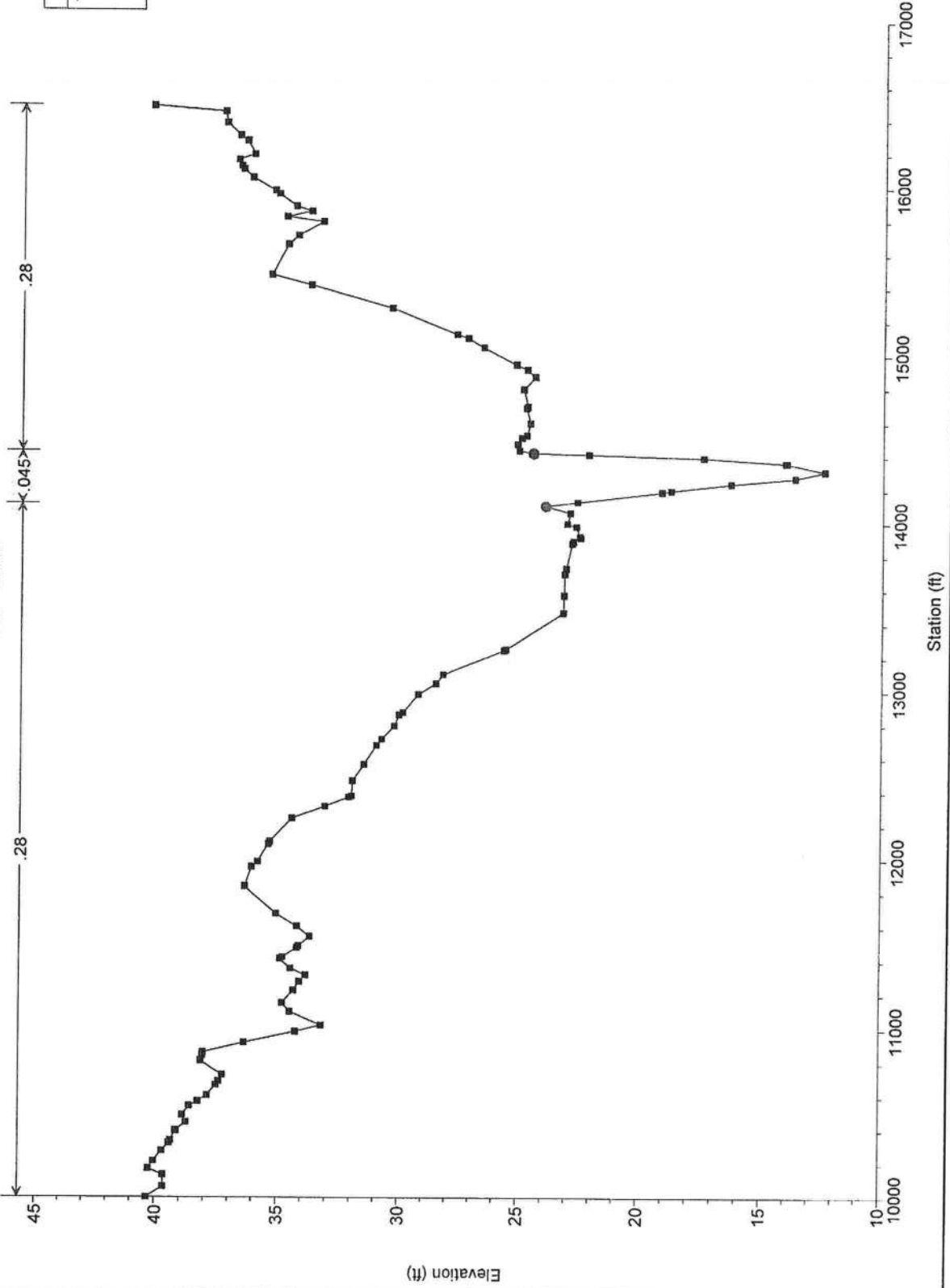
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RS = 16.02

Legend
Ground
Bank Sta



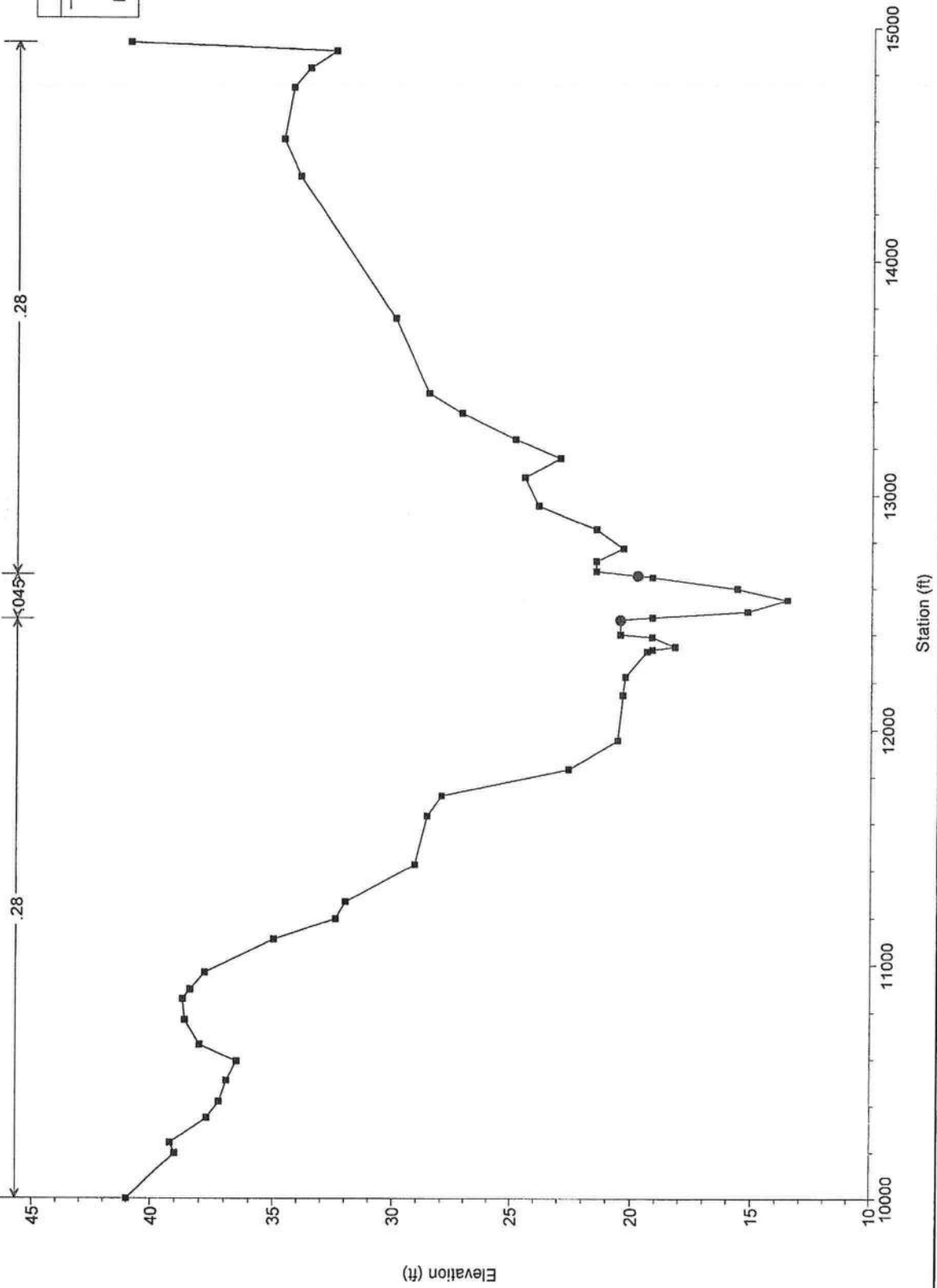
Proposed Plan: Imported Plan 01 12/9/2007

RS = 16.03



Proposed Plan: Imported Plan 01 12/9/2007

RS = 16.53





**SUWANNEE
RIVER
WATER
MANAGEMENT
DISTRICT**

9225 CR 49
LIVE OAK, FLORIDA 32060
TELEPHONE: (386) 362-1001
TELEPHONE: 800-226-1066
FAX (386) 362-1056

GENERAL PERMIT

PERMITTEE:

BILL & KAREN ZETROUER
1262 SW BLUFF DR.
FORT WHITE, FL 32038

PERMIT NUMBER: ERP02-0175M

DATE ISSUED: 01/08/2008

DATE EXPIRES: 01/08/2011

COUNTY: COLUMBIA

TRS: S18/T7S/R16E

PROJECT: ZETROUER WORKS OF THE DISTRICT MODIFICATION

Approved entity to whom operation and maintenance may be transferred pursuant to rule 40B-4.1130, Florida Administrative Code (F.A.C.):

BILL & KAREN ZETROUER
1262 SW BLUFF DR.
FORT WHITE, FL 32038

Based on information provided, the Suwannee River Water Management District's (District) rules have been adhered to and an environmental resource general permit is in effect for the permitted activity description below:

This permit authorizes a single-family residential development within the regulatory floodway of the Santa Fe River. The proposed residential structure will be elevated with the lowest structural member located at least one foot above the 100-year flood elevation. The area beneath the first floor of the building will be left without permanent obstruction except stairs and pilings. All facilities will be constructed with no fill material placed above the grade of the natural ground.

No construction or additional clearing will occur within 75 feet of the Santa Fe River. This project will be completed in a manner consistent with the application package submitted by Bill and Karen Zetrouer on January 2, 2008, and in accordance with District rule 40B-4.3030, Florida Administrative Code (F.A.C.).

It is your responsibility to ensure that adverse off-site impacts do not occur either during or after construction. Any additional construction or alterations not authorized by this permit may result in flood control or water quality problems both on and off site and will be a violation of District rule.

You or any other substantially affected persons are entitled to request an administrative hearing or mediation. Please refer to enclosed notice of rights.

This permit is issued under the provisions of chapter 373, F.S., chapter 40B-4, and chapter 40B-400, F.A.C. A general permit authorizes the construction, operation, maintenance, alteration, abandonment, or removal of certain minor surface water management systems. This permit authorizes the permittee to perform the work necessary to construct, operate, and maintain the surface water management system shown on the application and other documents included in the application. This is to notify you of District's agency action concerning Notice Of Intent. This action is taken pursuant to rule 40B-4 and 40B-400, F.A.C.

Standard Conditions for All General Permits:

1. The permittee shall perform all construction authorized in a manner so as to minimize adverse impacts to fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during construction including riprap, reinforcement, or compaction of any fill materials placed around newly installed structures, to minimize erosion, turbidity, nutrient loading, and sedimentation in the receiving waters.
2. Water quality data representative of the water discharged from the permitted system, including, but not limited to, the parameters in chapter 62-302, F.A.C., shall be submitted to the District as required. If water quality data are required, the permittee shall provide data as required on the volume and rate of discharge including the total volume discharged during the sampling period. All water quality data shall be in accordance with and reference the specific method of analysis in "Standard Methods for the Examination of Water and Wastewater" by the American Public Health Association or "Methods for Chemical Analysis of Water and Wastes" by the U.S. Environmental Protection Agency.
3. The operational and maintenance phase of an environmental resource permit will not become

effective until the owner or his authorized agent certifies that all facilities have been constructed in accordance with the design permitted by the District. If required by the District, such as-built certification shall be made by an engineer or surveyor. Within 30 days after the completion of construction of the system, the permittee shall notify the District that the facilities are complete. If appropriate, the permittee shall request transfer of the permit to the responsible entity approved by the District for operation and maintenance. The District may inspect the system and, as necessary, require remedial measures as a condition of transfer of the permit or release for operation and maintenance of the system.

4. Off-site discharges during and after construction shall be made only through the facilities authorized by the permit. Water discharged from the project shall be through structures suitable for regulating upstream stage if so required by the District. Such discharges may be subject to operating schedules established by the District.

5. The permit does not convey to the permittee any property right nor any rights or privileges other than those specified in the permit and chapter 40B-1, F.A.C.

6. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance, alteration, abandonment, or development in a Works of the District which is authorized by the permit.

7. The permit is issued based on the information submitted by the applicant which reasonably demonstrates that adverse off-site water resource impacts will not be caused by the permitted activity. It is the responsibility of the permittee to insure that such adverse impacts do not in fact occur either during or after construction.

8. It is the responsibility of the permittee to obtain all other clearances, permits, or authorizations required by any unit of local, state, or federal government.

9. The surfacewater management system shall be constructed prior to or concurrent with the development that the system is intended to serve and the system shall be completed within 30 days of substantial completion of the development which the system is intended to serve.

10. Except for General Permits After Notice or permits issued to a unit of government, or unless a different schedule is specified in the permit, the system shall be inspected at least once every third year after transfer of a permit to operation and maintenance by the permittee or his agent to ascertain that the system is being operated and maintained in a manner consistent with the permit. A report of inspection is to be sent to the District within 30 days of the inspection date. If required by chapter 471, F.S., such inspection and report shall be made by an engineer.

11. The permittee shall allow reasonable access to District personnel or agents for the purpose of inspecting the system to insure compliance with the permit. The permittee shall allow the District, at its expense, to install equipment or devices to monitor performance of the system authorized by their permit.

12. The surfacewater management system shall be operated and maintained in a manner which is consistent with the conditions of the permit and chapter 40B-4.2040, F.A.C.

13. The permittee is responsible for the perpetual operation and maintenance of the system unless the operation and maintenance is transferred pursuant to chapter 40B-4.1130, F.A.C., or the permit is modified to authorize a new operation and maintenance entity pursuant to chapter 40B-4.1110, F.A.C.

14. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.

15. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

16. Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.

17. Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site-specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

18. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or

permanently ceased, but in no case more than seven days after the construction activity in that portion of the site has temporarily or permanently ceased.

19. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District a Construction Commencement Notice Form No. 40B-1.901(14) indicating the actual start date and the expected completion date.

20. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an Annual Status Report Form No. 40B-1.901(15). These forms shall be submitted during June of each following year.

21. For those systems which will be operated or maintained by an entity requiring an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by Paragraph 40B-4.2030(2)(g), F.A.C., and Rule 40B-4.2035, F.A.C., must be submitted to the District for approval. Documents meeting the requirements set forth in these subsections of District rules will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

22. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

23. Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, using the supplied As-Built Certification Form No. 40B-1.901(16) incorporated by reference in Subsection 40B-1.901(16), F.A.C. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the District. Submittal of the completed form shall serve to notify the District that the

system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:

- a. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
- b. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;
- c. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
- d. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
- e. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
- f. Existing water elevation(s) and the date determined; and
- g. Elevation and location of benchmark(s) for the survey.

24. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the condition in paragraph 23 above, the District determines the system to be in compliance with the permitted plans, and the entity approved by the District in accordance with Rule 40B-4.2035, F.A.C., accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall request transfer of the permit to the approved responsible operation and maintenance operating entity if different from the permittee. Until the permit is transferred pursuant to Rule 40B-4.1130, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

25. Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the District of the changes prior to implementation so that a determination can be made whether a permit modification is required.

26. This permit does not eliminate the necessity to obtain any required federal, state, local and special District authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and in this chapter and Chapter 40B-4, F.A.C.

27. The permittee is hereby advised that Section 253.77, F.S., states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

28. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under 40B-400.046, F.A.C., provides otherwise.

29. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 40B-4.1130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.

30. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the District.

31. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

Permit No.: ERP02-0175M

Project: ZETROUER WORKS OF THE DISTRICT MODIFICATION

Page 8 of 11

WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT, THE PERMITTEE SHALL NOTIFY THE DISTRICT, IN WRITING, THAT THE FACILITIES ARE COMPLETE.

Approved by Lois Manton Date Approved 1/8/08
District Staff

[Signature]
Clerk

[Signature]
Executive Director

NOTICE OF RIGHTS

1. A person whose substantial interests are or may be determined has the right to request an administrative hearing by filing a written petition with the Suwannee River Water Management District (District), or may choose to pursue mediation as an alternative remedy under Section 120.569 and 120.573, Florida Statutes, before the deadline for filing a petition. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement. The procedures for pursuing mediation are set forth in Sections 120.569 and 120.57 Florida Statutes. Pursuant to Rule 28-106.111, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). A petition must comply with Chapter 28-106, Florida Administrative Code.
2. If the Governing Board takes action which substantially differs from the notice of District decision to grant or deny the permit application, a person whose substantial interests are or may be determined has the right to request an administrative hearing or may choose to pursue mediation as an alternative remedy as described above. Pursuant to Rule 28-106.111, Florida Administrative Code, the petition must be filed at the office of the District Clerk at District Headquarters, 9225 C.R. 49, Live Oak, Florida 32060 within twenty-one (21) days of receipt of written notice of the decision or within twenty-one (21) days of newspaper publication of the notice of District decision (for those persons to whom the District does not mail actual notice). Such a petition must comply with Chapter 28-106, Florida Administrative Code.
3. A substantially interested person has the right to a formal administrative hearing pursuant to Section 120.569 and 120.57(1), Florida Statutes, where there is a dispute between the District and the party regarding an issue of material fact. A petition for formal hearing must comply with the requirements set forth in Rule 28-106.201, Florida Administrative Code.
4. A substantially interested person has the right to an informal hearing pursuant to Section 120.569 and 120.57(2), Florida Statutes, where no material facts are in dispute. A petition for an informal hearing must comply with the requirements set forth in Rule 28-106.301, Florida Administrative Code.
5. A petition for an administrative hearing is deemed filed upon receipt of the petition by the Office of the District Clerk at the District Headquarters in Live Oak, Florida.
6. Failure to file a petition for an administrative hearing within the requisite time frame shall constitute a waiver of the right to an administrative hearing pursuant to Rule 28-106.111, Florida Administrative Code.

7. The right to an administrative hearing and the relevant procedures to be followed is governed by Chapter 120, Florida Statutes, and Chapter 28-106, Florida Administrative Code.

8. Pursuant to Section 120.68, Florida Statutes, a person who is adversely affected by final District action may seek review of the action in the District Court of Appeal by filing a notice of appeal pursuant to the Florida Rules of Appellate Procedure, within 30 days of the rendering of the final District action.

9. A party to the proceeding before the District who claims that a District order is inconsistent with the provisions and purposes of Chapter 373, Florida Statutes, may seek review of the order pursuant to Section 373.114, Florida Statutes, by the Florida Land and Water Adjudicatory Commission, by filing a request for review with the Commission and serving a copy of the Department of Environmental Protection and any person named in the order within 20 days of adoption of a rule or the rendering of the District order.

10. For appeals to the District Courts of Appeal, a District action is considered rendered after it is signed on behalf of the District, and is filed by the District Clerk.


11. Failure to observe the relevant time frames for filing a petition for judicial review, or for Commission review, will result in waiver of the right to review.

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing Notice of Rights has been sent by U.S. Mail to:

BILL & KAREN ZETROUER
1262 SW BLUFF DR.
FORT WHITE, FL 32038

At 4:00 p.m. this 9 day of Jan, 2008.


Jon M. Dinges
Deputy Clerk
Suwannee River Water Management District
9225 C.R. 49
Live Oak, Florida 32060

Permit No.: ERP02-0175M

Project: ZETROUER WORKS OF THE DISTRICT MODIFICATION

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386.362.1001 or 800.226.1066 (Florida only)

cc: File Number: ERP02-0175M

Inst. Number: 200812006016 Book: 1146 Page: 1543 Date: 3/27/2008 Time: 10:18:00 AM Page 1 of 1

MERCANTILE BANK

Fax: 7278224661

Mar 20 2008 20:09

P.09

758-2160

26640

00.00
20.50

RECORD AND RETURN TO:
RAYMOND M. IVEY, ESQ.

Inst: 200812006016 Date: 3/27/2008 Time: 10:18 AM
Doc P. DocWith Caseon, Columbia County Page 1 of 1 B: 1146 P: 1040

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:

- Description of Property:** Lake 3, aka KIB 1202 SW Bluff Drive Cedar Springs Shores Fort White, FL 32039
- General Description of Improvements:** Residential Construction
- Name and Address of Owner:** Karen & William Zetrow 1202 SW Bluff Drive Fort White, FL 32039 Phone: (386) 497-1048 / Fax: Same
Interest in Property: Fee Simple
- Name and Address of Contractor:** Case Construction & Development 2910 SW CR 242 Lake City, FL 32024 Phone: (386) 623-7294 / Fax: (386) 752-8464
- Name and Address of Surety on payment bond, if any, and amount of such bond:** N/A
Amount of Bond: \$0
- Name and Address of Lender:** MERCANTILE BANK, A DIVISION OF CAROLINA FIRST BANK 425 22nd Avenue North St. Petersburg, FL 33704
Attention: Sara P. Lopez Phone: (727) 812-2216 / Fax: (727) 822-4561
- Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13 (1)(a)7., Florida Statutes:** MERCANTILE BANK, A DIVISION OF CAROLINA FIRST BANK 425 22nd Avenue North St. Petersburg, FL 33704
Attention: Sara P. Lopez Phone: (727) 812-2216 / Fax: (727) 822-4561
- In addition to himself, Owner designates _____ of _____ to receive a copy of the Lender's Notice as provided in Section 713.13(1)(b), Florida Statutes.**
- 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 1, 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.

William Zetrow
Signature of Owner or Owner's Authorized Officer/Director/Partner/Manager
Signature's Title/Office _____

The foregoing instrument was acknowledged before me this 21st day of March, 2008 (year) by William Zetrow (name of person) as _____

Raymond M. Ivey
Signature of Notary Public - State of Florida
Print, Type or Stamp Commissioned Name of Notary Public
Commission Number _____
Personally Known _____ or Produced Identification DRIVERS LICENSE



Verification Pursuant to Section 82.023, Florida Statutes

Under penalty 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.

Signature of Natural Person Signing Above _____

CERTIFICATES OF OCCUPANCY

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 18-7S-16-04236-039

Building permit No. 0000266640

Use Classification SFD, UTILITY

Fire: 0.00

Permit Holder MATT CASON

Waste: 0.00

Owner of Building BILL & KAREN ZETROUER

Total: 0.00

Location: 1262 SW BLUFF DR. FORT WHITE, FL 32038

Date: 06/23/2009

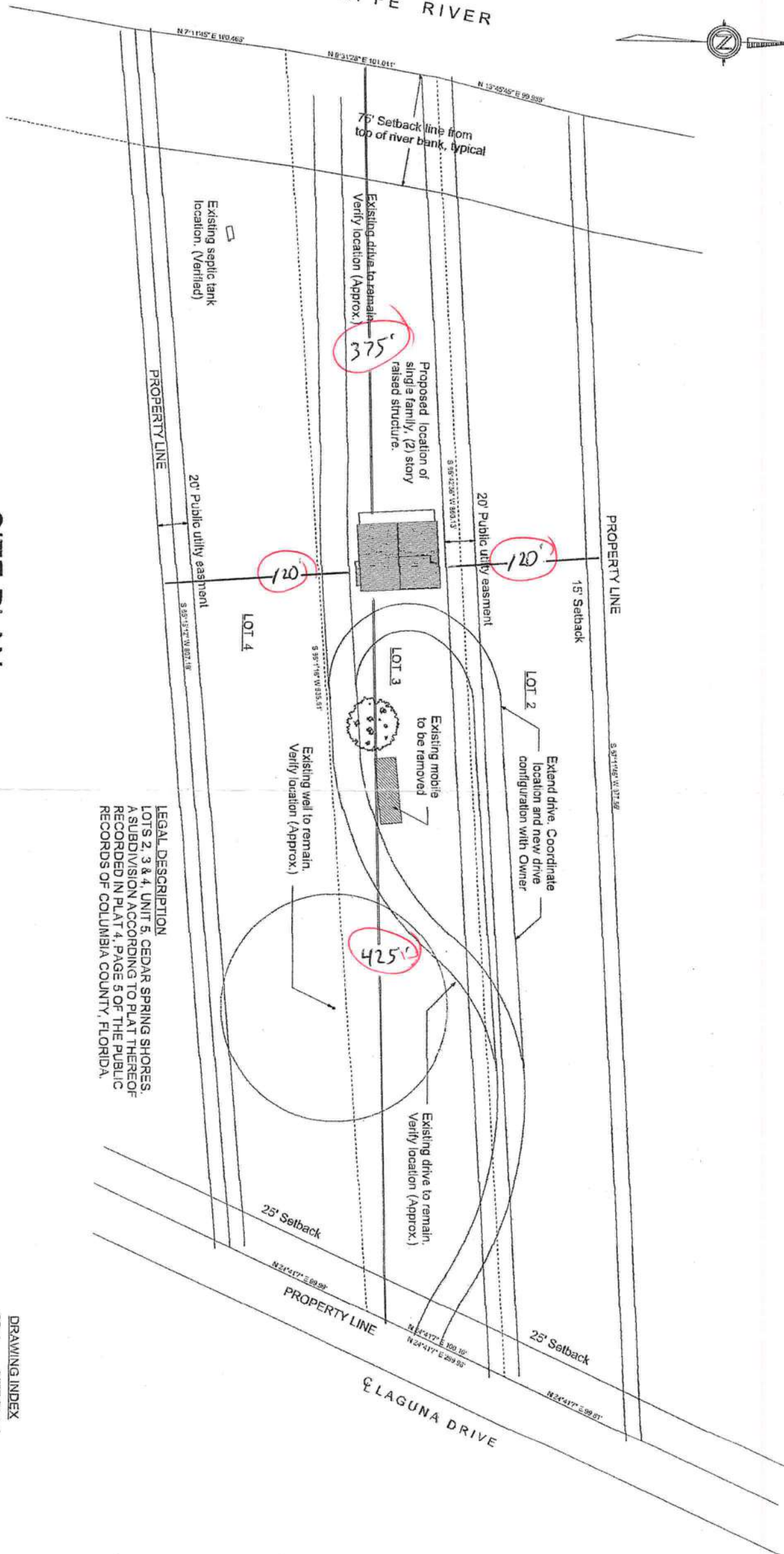
Wayne A. Dues

Building Inspector



POST IN A CONSPICUOUS PLACE
(Business Places Only)

SANTA FE RIVER



SITE PLAN
SCALE: 1" = 40'-0"

LEGAL DESCRIPTION
LOTS 2, 3 & 4, UNIT 5, CEDAR SPRING SHORES,
A SUBDIVISION ACCORDING TO PLAT THEREOF
RECORDED IN PLAT 4, PAGE 5 OF THE PUBLIC
RECORDS OF COLUMBIA COUNTY, FLORIDA.

DRAWING INDEX	
SP-1	SITE PLAN
A1	GENERAL NOTES
A2	FOUNDATION PLAN
A3	MAIN FLOOR PLAN
A4	LOFT FLOOR PLAN
A5	EXTERIOR ELEVATIONS
A6	BUILDING SECTIONS
A7	MAIN FLOOR FRAMING PLAN
A8	LOFT FLOOR FRAMING PLAN
A9	ROOF PLAN AND DETAILS
A10	ROOF FRAMING PLAN AND DETAILS
A11	ELECTRICAL FLOOR PLANS
A12	DETAILS

Freeman
Design Group



161 NW MADISON STREET
SUITE #102
LAKE CITY, FL. 32055
(386)758-4209

CERTIFICATE OF AUTHORIZATION # 00008701

A New Residence for:
Bill & Karen Zetrouer

DATE	04/27/07	DRAWN BY	M.E.F.
REVISIONS			
SHEET	SP-1		
OF	1		
PROJECT NO.	06R009		