Columbia County Building Permit Application For Office Use Only Application # 0801-01 Date Received 1/2/08 By Fermit # 2668 Application Approved by - Zoning Official BLK Date 6/6 of 8 Plans Examiner ATH Date 1-15-Flood Zone AE Development Permit <u>VES</u> Zoning <u>ESA-2</u> Land Use Plan Map Category <u>ESA</u> Comments FLogdway, Panel # 0255, Sante Fe River, O'Rise Letter & 35' MFE 36' □ State Road Info □ Parent Parcel # □ Development Per Fax 1800 886 9.563 Name Authorized Person Signing Permit Hugo Escalande Phone 386 2888666 Address P.O. BOX 280, Fort White, FC 32038 Owners Name Jackie Moore Phone 404-406-3760 911 Address 1374 S.W. Santa Fe, FORT White, FL 32038 Contractors Name Hugo Escalante Phone 3862888666 Address PO BOY 280, Food Wha Fee Simple Owner Name & Address VIA Bonding Co. Name & Address\_\_\_\_ Architect/Engineer Name & Address\_ Mortgage Lenders Name & Address Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Ene Property ID Number 36-65-15-00641-003 Estimated Cost of Construction #250,000.00 Subdivision Name Three Rwer Estates Lot 3/4\_ Block \_\_\_\_ Unit \_6\_ Phase \_ Driving Directions South 47, TIR 27 to Three Paven Estates, T/L, T/Lad Utah, T/R at Washington Aux, T/L at Santa Fe DR, house on Right after 12 mile Type of Construction New Sing 6 Family Number of Existing Dwellings on Property\_ Total Acreage 1.0 Lot Size 1.0 Do you need a - Culvert Permit or Culvert Walver of Have an Existing I Actual Distance of Structure from Property Lines - Front of Side Side Side Rear 2007 Total Building Height  $33' \circ ''$  Number of Stories 2 Heated Floor Area  $3230 \, \text{GFT}$  Roof Pitch  $8^{-12}$ 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 OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning. WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOU LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. Contractor Signature Contractors License Number CRC/326967 EXPIRES: June 28, 2008 STATE OF FLORIDA Competency Card Number COUNTY OF COLUMBIA NOTARY STAMP/SEAL Sworn to (or affirmed) and subscribed before me

Notary Signature

Cook - 1- Slich

Personally known vor Produced Identification

26668 Add 13033
Notice of Treatment
Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)
Address: 536 SE Baya On City Lake City Phone 1752-1703
Site Location: Subdivision_
Lot # Block# Permit # Address 1304 Sw Santa Fe Fiver PR
Product used Active Ingredient % Concentration
Premise Imidacloprid 0.1%
☐ Termidor Fipronil 0.12%
☐ Bora-Care Disodium Octaborate Tetrahydrate 23.0%
Type treatment: Soil
Area Treated Square feet Linear feet Gallons Applied 2650
As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.
If this notice is for the final exterior treatment, initial this line
_5/13/08 _ 11:20 Guy_
Date Time Print Technician's Name
Remarks:

Permit File - Canary Permit Holder - Pink

10/05

Applicator - White

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

COUNTY

BOARD OF COUNTY COMMISSIONERS . COLUMBIA COUNTY

26668

### MEMO OF REVIEW FOR CORRECTNESS AND COMPLETION

The attached	elevation certi	ficated is completed in made in the bel	ow marked sections by the au	thorized Comm	
A1 Puilding Owned M		SEC	TION A - PROPERTY INFORM	ATION	For Insurance Company Use:
A1. Building Owner's Nar A2. Building Street Addre		John M ., Unit, Suite, and/or	Bldg. No.) or P.O. Route and Box N	0.	Policy Number  Company NAIC Number
City					
		_	State		ZIP Code
C6- 63-	17-5064	1-005	Number, Legal Description, etc.)		
A4. Building Use (e.g., Re	sidential, Non-R	esidential Addition	Accesson, etc.)		1
					Datum: NAD 1927 NAD
The miletin at least 2 photo	oursons of the hi	ilding if the Certifical	te is being used to obtain flood insur	ance.	Datum: NAD 1927 NAD
A8. For a building with a c	raw space or en			uilding with an atta	ached garage, provide:
a) Square footage of	crawl space or e	nclosure(s)	sq ft a) Squ	are footage of atta	achad assess
b) No. of permanent	flood openings in	the crawl space or	h) No		sq f
				of permanent floo	d openings in the ettech of
s) Total and an and a	within 1.0 100t at	ove adjacent grade	wall	of permanent floo s within 1.0 foot al	d openings in the attached
c) Total net area of fl	ood openings in	oove adjacent grade A8.b		a your intrine	d openings in the attached garage
c) Total net area of fl	ood openings in	A8.b	sq in c) Total	al net area of flood	d openings in the attached garage bove adjacent grade l openings in A9.b sq
c) Total net area of fi	ood openings in A	NON B - FLOOD		al net area of flood	d openings in the attached garage bove adjacent grade l openings in A9.b sq
c) Total net area of fl	ood openings in A	NON B - FLOOD	sq in c) Total	al net area of flood	d openings in the attached garage bove adjacent grade l openings in A9.b sq
B1. NFIP Community Name	SEC	NA8.6  FION B - FLOOD    Tumber	sq in c) Tote  INSURANCE RATE MAP (FIRM  B2. County Name	al net area of flood	d openings in the attached garage bove adjacent grade sq openings in A9.b sq
c) Total net area of fi	ood openings in A	TION B - FLOOD umber  B6. FIRM Index	sq In c) Tota  INSURANCE RATE MAP (FIRM  B2. County Name  B7. FIRM Panel	al net area of flood  I) INFORMATIO  B8. Flood	d openings in the attached garage bove adjacent grade sq l openings in A9.b sq N  B3. State
B1. NFIP Community Name	SEC	NA8.6  FION B - FLOOD    Tumber	sq in c) Tote  INSURANCE RATE MAP (FIRM  B2. County Name	al net area of flood	d openings in the attached garage bove adjacent grade sq openings in A9.b sq
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B1. NFIP Community Name  B4. Map/Panel Number  10. Indicate the source of t	SEC  B & Community N  B5. Suffix  he Bese Flood E	B6. FIRM Index Date  evetion (BFE) data of	sq in c) Total	B8. Flood Zone(s)	d openings in the attached garage bove adjacent grade   dopenings in A9.b sq
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B1. NFIP Community Name  B4. Map/Panel Number  10. Indicate the source of t  FIS Profile  11. Indicate elevation datur  12. Is the building located i	SEC  B & Community N  B5. Suffix  he Bese Flood E  FIRM	B6. FIRM Index Date  evetion (BFE) data of the community Determinent Item B9: NGVI	sq in c) Total  INSURANCE RATE MAP (FIRM  B2. County Name  B7. FIRM Panel Effective/Revised Date  or base flood depth entered in Item Ented  Other (Describe)  D 1929 NAVD 1988	B8. Flood Zone(s)	d openings in the attached garage bove adjacent grade
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B1. NFIP Community Name  B4. Map/Panel Number  10. Indicate the source of t  FIS Profile  11. Indicate elevation datur  12. Is the building located i  Designation Date	SEC  B & Community N  B5. Suffix  he Bese Flood E  FIRM	B6. FIRM Index Date  Bevation (BFE) data of the B9: NGVI  Resources System	sq in c) Total  INSURANCE RATE MAP (FIRM  B2. County Name  B7. FIRM Panel Effective/Revised Date  or base flood depth entered in Item Ented Other (Describe) O 1929 NAVD 1988	B8. Flood Zone(s)  Other (Describe)ed Area (OPA)?	d openings in the attached garage bove adjacent grade   dopenings in A9.b sq.

#### U.S DEPA MEN OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

### ELEVATION CERTIFICATE

OMB No. 1660-0008 Expires February 28. 2009

Important: Read the instructions on pages 1-8.

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	SEC	TION A - PRO	PERTY INFORMA	ATION	For Insurance Company Use:
A1	. Building Owner's Name John Moore				Policy Number
	. Building Street Address (including Apt., Unit, Suite, and/or V Santa Fe Drive	Company NAIC Number			
	City Ft White State FL ZIP Code				
	Property Description (Lot and Block Numbers, Tax Parcel ts 3 & \$, Unit 6 - Three Rivers Estates	Number, Legal De	escription, etc.)		
A4	. Building Use (e.g., Residential, Non-Residential, Addition,	Accessory, etc.)	Residential		
	. Latitude/Longitude: Lat. 29-55.856N Long. 082-46.933W			Horizontal Da	atum: NAD 1927 NAD 1983
	. Attach at least 2 photographs of the building if the Certifica	ate is being used t	o obtain flood insura	ance.	
	. Building Diagram Number <u>5</u> B. For a building with a crawl space or enclosure(s), provide		A9 For a b	uilding with an attac	ched garage, provide:
, ,,	Square footage of crawl space or enclosure(s)	N/A sq ft		are footage of attac	
	b) No. of permanent flood openings in the crawl space or				openings in the attached garage
	enclosure(s) walls within 1.0 foot above adjacent grade c) Total net area of flood openings in A8.b	e <u>N/A</u> N/A sqin			ove adjacent grade N/A sq in
-	SECTION B - FLOOD				
R1	. NFIP Community Name & Community Number	B2. County Nan			B3. State
	lumbia Co. 120070	Columbia		100	Florida
В	4. Map/Panel Number B5. Suffix B6. FIRM Index		IRM Panel	B8. Flood	B9. Base Flood Elevation(s) (Zone
	120070 0255 B 1/6/88	100-100-00-00-00-00-00-00-00-00-00-00-00	/Revised Date 1/6/88	Zone(s) AE	AO, use base flood depth) 34
B10.	Indicate the source of the Base Flood Elevation (BFE) data	a or base flood de	pth entered in Item	B9.	
	☐ FIS Profile ☐ FIRM ☐ Community Det				ater Management District
B11.	Indicate elevation datum used for BFE in Item B9:			Other (Describe)	
B12.	Is the building located in a Coastal Barrier Resources Syst	tem (CBRS) area	or Otherwise Protec	The state of the s	☐Yes ☐No
	Designation Date	☐ CBRS	☐ OPA		
	SECTION C - BUILDING	ELEVATION IN	IFORMATION (S	URVEY REQUIR	ED)
	Building elevations are based on:   Construction Dr		☐ Building Under (	Construction*	
	*A new Elevation Certificate will be required when construct		The state of the s	AD/A4 A00 AD/A1	1 ADMO 0
JZ.	Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V below according to the building diagram specified in Item A7	730, V (WITH BFE). 7.	, AR, ARVA, ARVAE,	AR/A1-A3U, AR/AF	1, AR/AO. Complete Items C2.a-g
	Benchmark Utilized Local Vertical Datum NGVD1929				
	Conversion/Comments				
			С	heck the measurem	nent used.
a)	Top of bottom floor (including basement, crawl space, or end	closure floor)_	41.33 🛭 fee	t meters (Puert	o Rico only)
	b) Top of the next higher floor			t 🔲 meters (Puert	
	<ul> <li>Bottom of the lowest horizontal structural member (V Z</li> </ul>	ones only)	N/A	t meters (Puert	o Rico only)
	d) Attached garage (top of slab)		N/A fee	t meters (Puert	o Rico only)
	<ul> <li>Lowest elevation of machinery or equipment servicing t (Describe type of equipment in Comments)</li> </ul>	the building	41.15 Gee	t meters (Puert	o Rico only)
	f) Lowest adjacent (finished) grade (LAG)		23.0 ⊠ fee	t meters (Puerto	o Rico only)
	g) Highest adjacent (finished) grade (HAG)		[[[[[[] [[] [[] [[] [[] [[] [[] [[] [[]	meters (Puerte	사람이 있는 경기에 가장 가장 가장 바람이 있다. 그 사람이 있는 것이 없는 것이 없는 것이 없다. 그 사람이 있는 것이 없는 것이 없다. 그 사람이 없는 것이 없는 것이 없다. 그 사람이 없는 것
	0505000 00000000				
Thi	SECTION D - SURVEYO s certification is to be signed and sealed by a land surveyor,				
info	remation. I certify that the information on this Certificate reproderstand that any false statement may be punishable by fine	esents my best ef	forts to interpret the	data available.	7,12,1,100
	Check here if comments are provided on back of form.				PLACE
Cer	tifier's Name Timothy A. Delbene, P.L.S.		License Number LS	# 5594	SEAL HERE
Title	e Land Surveyor Company Na	ame Donald F. Lo	ee & Associates, Inc	2.	
Add	dress 140 NW Ridgewood Ave. City Lake Ci	ty	State FL ZIP Co	de 32055	Sept. Marin 187
Sig	nature Date 11/7/2008	Telephone	386-755-6166		

Econol Control of the	copy the corresponding information from Section A.	Fo	or Insurance Company Use:
SW Santa Fe Drive - Lots 3 & \$, Uni	t., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. it 6 - Three Rivers Estates	P	olicy Number
City Ft White State FL ZIP Code		C	ompany NAIC Number
SECTION	N D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICAT	TON (CONTIN	NUED)
Copy both sides of this Elevation Cer	tificate for (1) community official, (2) insurance agent/company, and (3)	building owner.	
Comments Elevation for Zone AE ( This elevation agrees wi	100 year flood plain) is taken from Suwannee River Water Management ith FIRM map. Mechanical equipment is elevated air-conditoning unit.	Distrct's websit	te (River Mile 8).
Signature	Date 11/7/2008		
photol cc	EVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZO	ONE AO AND	Check here if attachmer
SECTION E - BUILDING ELE	EVATION INFORMATION (SURVEY NOT REQUIRED) FOR 20	JNE AO AND	ZONE A (WITHOUT BFE)
For Zones AO and A (without BFE), or	complete Items E1-E5. If the Certificate is intended to support a LOMA grade, if available. Check the measurement used. In Puerto Rico only	or LOMR-F requ	uest, complete Sections A, B,
	or the following and check the appropriate boxes to show whether the ele		e or below the highest adjacent
grade (HAG) and the lowest ad	jacent grade (LAG). g basement, crawl space, or enclosure) is ☐ feet ☐ r		500 - 100 -
<ul><li>b) Top of bottom floor (including</li></ul>	g basement, crawl space, or enclosure) is feet  r	meters  abov	re or Delow the LAG.
<ol> <li>For Building Diagrams 6-8 with (elevation C2 b in the diagrams</li> </ol>	permanent flood openings provided in Section A Items 8 and/or 9 (see p) of the building is feet _ meters _ above or _	page 8 of Instru	ctions), the next higher floor
E3. Attached garage (top of slab) is			
[1] 3 [1] 2 [2]	nd/or equipment servicing the building is	And the second second second second	A STATE OF THE PARTY OF THE PAR
	n number is available, is the top of the bottom floor elevated in accordan  Unknown. The local official must certify this information in Section		munity's floodplain managemen
ordinance? ☐ Yes ☐ No	Unknown. The local official must certify this information in Section	О.	
			ATION
SECTION	N F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE	E) CERTIFICA	
SECTION The property owner or owner's author		E) CERTIFICA	
SECTION The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authorize	N F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE rized representative who completes Sections A, B, and E for Zone A (wit ements in Sections A, B, and E are correct to the best of my knowledge. ted Representative's Name	E) CERTIFICA	
SECTION The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authoriz Tim Delbene - Donald F. Lee & Asso	N F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE rized representative who completes Sections A, B, and E for Zone A (wit ements in Sections A, B, and E are correct to the best of my knowledge. ted Representative's Name	E) CERTIFICA	
SECTION The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authorize Tim Delbene - Donald F. Lee & Associated Address 140 NW Ridgewood Ave.	N F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE rized representative who completes Sections A, B, and E for Zone A (with ements in Sections A, B, and E are correct to the best of my knowledge and Representative's Name ociates, Inc.	E) CERTIFICA thout a FEMA-is	ssued or community-issued BFE
SECTION The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authoriz Tim Delbene - Donald F. Lee & Associadoress 140 NW Ridgewood Ave. Signature	N F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE rized representative who completes Sections A, B, and E for Zone A (wit ements in Sections A, B, and E are correct to the best of my knowledge. 2022 Representative's Name ociates, Inc.  City Lake City	thout a FEMA-is	ssued or community-issued BFE
SECTION The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authoriz Tim Delbene - Donald F. Lee & Associations 140 NW Ridgewood Ave. Signature	N F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE rized representative who completes Sections A, B, and E for Zone A (wit ements in Sections A, B, and E are correct to the best of my knowledge and Representative's Name ociates, Inc.  City Lake City	thout a FEMA-is	ssued or community-issued BFE
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SECTION The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authoriz Tim Delbene - Donald F. Lee & Asso Address 140 NW Ridgewood Ave. Signature Comments Land Surveyors e local official who is authorized by la	N F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE rized representative who completes Sections A, B, and E for Zone A (witements in Sections A, B, and E are correct to the best of my knowledge.  The section of the secti	State FL Telephone 3	ZIP Code 32055  86-755-6166  Check here if attachme
SECTION The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authorized Microsoft 140 NW Ridgewood Ave. Signature Comments Land Surveyors  The local official who is authorized by led G of this Elevation Certificate. Con.  The information in Section C	NF - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE rized representative who completes Sections A, B, and E for Zone A (witements in Sections A, B, and E are correct to the best of my knowledge and Representative's Name ociates, Inc.  City Lake City  Date 11/7/2008  SECTION G - COMMUNITY INFORMATION (OPTIONAL COMMUNITY IN	State FL Telephone 3	ZIP Code 32055  86-755-6166  Check here if attachme  omplete Sections A, B, C (or E), 8. and G9.
SECTION The property owner or owner's author or Zone AO must sign here. The state of the state o	NF - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE rized representative who completes Sections A, B, and E for Zone A (witements in Sections A, B, and E are correct to the best of my knowledge and Representative's Name ociates, Inc.  City Lake City  Date 11/7/2008  SECTION G - COMMUNITY INFORMATION (OPTIONAL COMMUNITY IN	State FL Telephone 3	ZIP Code 32055  86-755-6166  Check here if attachme  omplete Sections A, B, C (or E), 8. and G9.  Inveyor, engineer, or architect whents area below.)
SECTION The property owner or owner's author or Zone AO must sign here. The state Property Owner's or Owner's Authoriz Tim Delbene - Donald F. Lee & Asso Address 140 NW Ridgewood Ave.  Signature Comments Land Surveyors  The local official who is authorized by lad G of this Elevation Certificate. Con  The information in Section C is authorized by law to certify  A community official complete	NF - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE rized representative who completes Sections A, B, and E for Zone A (witements in Sections A, B, and E are correct to the best of my knowledge and Representative's Name ociates, Inc.  City Lake City  Date 11/7/2008  SECTION G - COMMUNITY INFORMATION (OPTIONAL COMMUNITY IN	State FL Telephone 3:  Ordinance can coused in Items Goog a licensed suata in the Commer community-issuance	ZIP Code 32055  86-755-6166  Check here if attachme  complete Sections A, B, C (or E), 8. and G9.  Inveyor, engineer, or architect whents area below.)
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SECTION The property owner or owner's author or Zone AO must sign here. The state of the property Owner's or Owner's Authorizing Delbene - Donald F. Lee & Association Association Ave.  Signature Comments Land Surveyors  The information in Section C is authorized by lad G of this Elevation Certificate. Comments Land Surveyors  The information in Section C is authorized by law to certify.  A community official complete.  The following information (Items 14. Permit Number)  This permit has been issued for: Elevation of as-built lowest floor (inc.).  BFE or (in Zone AO) depth of flooding in the property of the permit has been issued for: Elevation of as-built lowest floor (inc.).	SECTION G - COMMUNITY INFORMATION (OPTIONA aw or ordinance to administer the community's floodplain management of applete the applicable item(s) and sign below. Check the measurement of all section information. (Indicate the source and date of the elevation date and Section E for a building located in Zone A (without a FEMA-issued or ams G4G9.) is provided for community floodplain management purpose  G5. Date Permit Issued  G6. Date Certificat    New Construction   Substantial Improvement	State FL  Telephone 3:  AL)  ordinance can cused in Items Goy a licensed suata in the Community-issues.  te Of Compliance CR) Datum	ZIP Code 32055  ZIP Code 32055  Check here if attachments and G9.  Inveyor, engineer, or architect whents area below.)  ued BFE) or Zone AO.  Ce/Occupancy Issued
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### **Building Photographs**

See Instructions for Item A6.

	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. SW Santa Fe Drive- Lots 3 & 4, Unit 6 Three Rivers Estates	Policy Number
City Ft White State FL ZIP Code	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, following.



FRONT VIEW OF HOUSE

boot 1

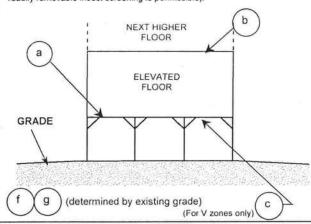


REAR VIEW OF HOUSE

#### DIAGRAM 5

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

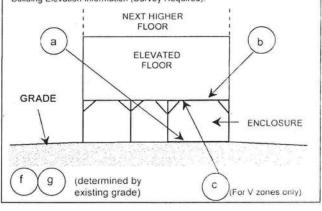
Distinguishing Feature – For all zones, the area below the elevated floor is open, with no obstruction to flow of flood waters (open lattice work and/or readily removable insect screening is permissible).



#### DIAGRAM 6

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

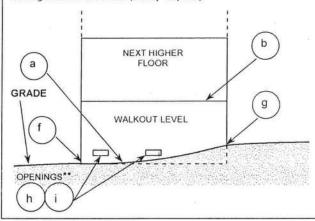
Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings\*\* present in the walls of the enclosure. Indicate information about openings in Section C. Building Elevation Information (Survey Required).



#### DIAGRAM 7

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least one side is at or above grade. The principal use of this building is located in the elevated floors of the building.

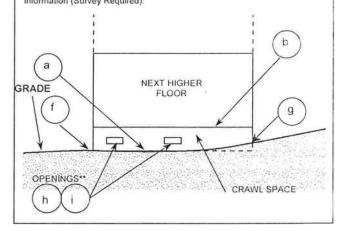
Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings\*\* present in the walls of the enclosure. Indicate information about openings in Section C, Building Elevation Information (Survey Required).



#### **DIAGRAM 8**

All buildings elevated on a crawl space with the floor of the crawl space at or above grade on at least one side, with or without an attached garage.

Distinguishing Feature – For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawl space is with or without openings\* present in the walls of the crawl space. Indicate information about the openings in Section C. Building Elevation Information (Survey Required).



\*\* An "opening" (flood vent) is defined as a permanent opening in a wall 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 crawl spaces with a total net area of not less than one square inch for every square foot of area enclosed. Each opening must be on different sides of the enclosed area. If a building has more than one enclosed area, each area must have openings on exterior walls to allow floodwater to directly enter. The bottom of the openings must be no higher than one foot above the grade underneath the flood vents. Alternatively, you may submit a certification by a registered professional engineer or architect that the design 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.

#### Zero Rise Floodway Study

Moore Property
Lots 3 and 4 of "Three Rivers Estates Unit 6" Subdivision
Columbia County

The Moore's property is located on the north side of the Santa Fe River at River Mile 8.4. 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 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 proposed model blocks all of the flow area in the vicinity of the proposed home and carport; as well as the flow area below elevation 25.0 feet (NGVD 1929 vertical datum) between the carport and the right top of bank of the river. For modeling purposes it was assumed that the home and boardwalk would block the cross section for a length of 70°. The cross section at River Mile 8.43 was used as the Approach Section and was copied downstream 150 feet (XS 8.42 Upstream Face), copied downstream 220 feet (XS 8.41 Downstream Face), and copied downstream 370 feet (XS 8.40 Exit Section). Cross Sections 8.41 and 8.42 were modified by blocking all flow area between Ground Stations 13101 and 13230 (carport and home) and all area below elevation 25.0 between Ground Stations 12897 and 13100 (boardwalk to river). The right top of bank in the model is at Ground Station 12896. Cross section plots are attached.

Comparison of the floodway elevations at the cross sections near the proposed fill indicates that the fill will not increase the floodway elevations (all elevation differences area less than 0.05 feet and round to 0.0 feet when considered to the nearest tenth of a foot). The fill placed on the property will cause zero rise in the floodway. Elevations from the duplicate and the proposed floodway models are summarized below.

Cross Section	Duplicate Floodway Elevation	Proposed Floodway Elevation	
7.64	34.8	34.8	
8.40 Exit	NA	35.0	
8.41 Face	NA	35.0	
8.42 Face	NA	35.0	
8.43 Approach	35.1	35.1	
10.06	35.5	35.5	
11.30	35.9	35.9	
13.03	36.2	36.2	

The proposed minimum finished floor elevation is elevation 36.1 feet NGVD 1929 vertical datum. The proposed minimum low member elevation for the home and carport is elevation 34.3 feet NGVD 1929 vertical datum.

James M. Knight, P.E. 8/29/5

P.E. Number 47756

8725 – 288<sup>th</sup> Street Branford, FL 32008 Phone 386-961-6595

### **Columbia County Building Department Flood Development Permit**

Development Permit F 023- 08-002

DATE 01/25/2008 BUILDING PERMIT NUMBER 000026668
APPLICANT HUGO ESCALANTE PHONE 386.288.8666
ADDRESS POB 280 FT. WHITE FL 32038
OWNER JACKIE MOORE PHONE 404.406.3760
ADDRESS 1374 SW SANTA FE DRIVE FT. WHITE FL 32038
CONTRACTOR HUGO ESCALANTE PHONE 386.288.8666
ADDRESS POB 280 FT. WHITE FL 32038
SUBDIVISION 3 RIVERS ESTATES Lot 3/4 Block Unit Phase
TYPE OF DEVELOPMENT SFD/UTILITY PARCEL ID NO. 26-6S-15-00641-003
FLOOD ZONE AE BY BLK 1-6-88 FIRM COMMUNITY #. 120070 - PANEL # 0255B  FIRM 100 YEAR ELEVATION 35.0'  REQUIRED LOWEST HABITABLE FLOOR ELEVATION 36.0  IN THE REGULATORY FLOODWAY YES OF NO  RIVER SANTA FE  SURVEYOR / ENGINEER NAME TAMES M. KNIGHT, LICENSE NUMBER 47756
ONE FOOT RISE CERTIFICATION INCLUDED  ZERO RISE CERTIFICATION INCLUDED
SRWMD PERMIT NUMBER L-RP 05-0455
(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



#### Zero Rise Floodway Study

Moore Property
Lots 3 and 4 of "Three Rivers Estates Unit 6" Subdivision
Columbia County

The Moore's property is located on the north side of the Santa Fe River at River Mile 8.4. 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 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 proposed model blocks all of the flow area in the vicinity of the proposed home and carport; as well as the flow area below elevation 25.0 feet (NGVD 1929 vertical datum) between the carport and the right top of bank of the river. For modeling purposes it was assumed that the home and boardwalk would block the cross section for a length of 70°. The cross section at River Mile 8.43 was used as the Approach Section and was copied downstream 150 feet (XS 8.42 Upstream Face), copied downstream 220 feet (XS 8.41 Downstream Face), and copied downstream 370 feet (XS 8.40 Exit Section). Cross Sections 8.41 and 8.42 were modified by blocking all flow area between Ground Stations 13101 and 13230 (carport and home) and all area below elevation 25.0 between Ground Stations 12897 and 13100 (boardwalk to river). The right top of bank in the model is at Ground Station 12896. Cross section plots are attached.

Comparison of the floodway elevations at the cross sections near the proposed fill indicates that the fill will not increase the floodway elevations (all elevation differences area less than 0.05 feet and round to 0.0 feet when considered to the nearest tenth of a foot). The fill placed on the property will cause zero rise in the floodway. Elevations from the duplicate and the proposed floodway models are summarized below.

Cross Section	Duplicate Floodway Elevation	Proposed Floodway Elevation
7.64	34.8	34.8
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8.43 Approach	35.1	35.1
10.06	35.5	35.5
11.30	35.9	35.9
13.03	36.2	36.2

The proposed minimum finished floor elevation is elevation 36.1 feet NGVD 1929 vertical datum. The proposed minimum low member elevation for the home and carport is elevation 34.3 feet NGVD 1929 vertical datum.

James M. Knight, P.E. 8/29/5 P.E. Number 47756

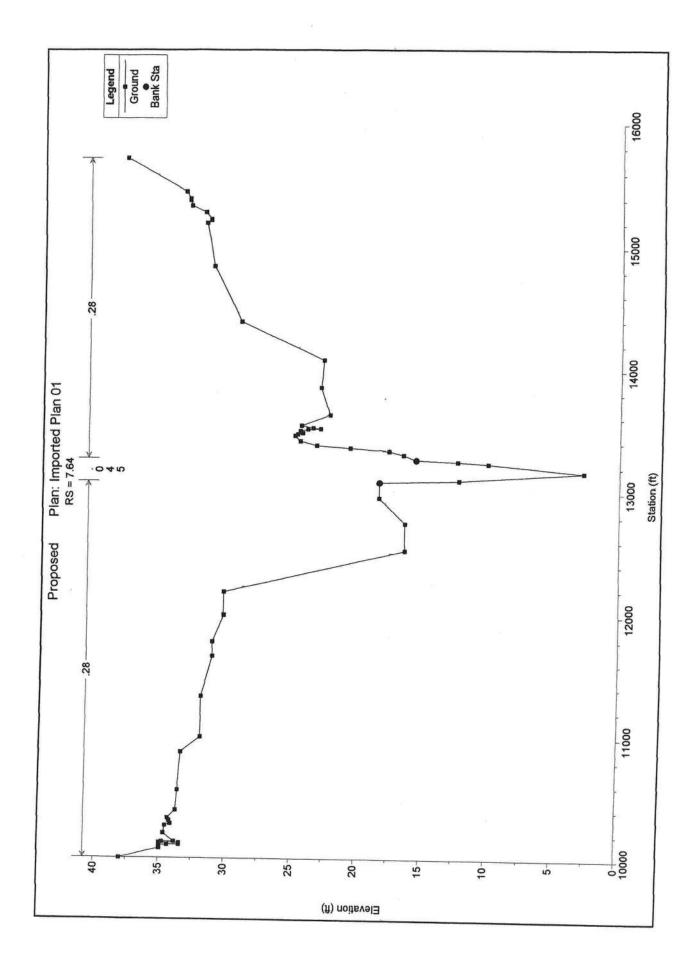
8725 – 288<sup>th</sup> Street Branford, FL 32008

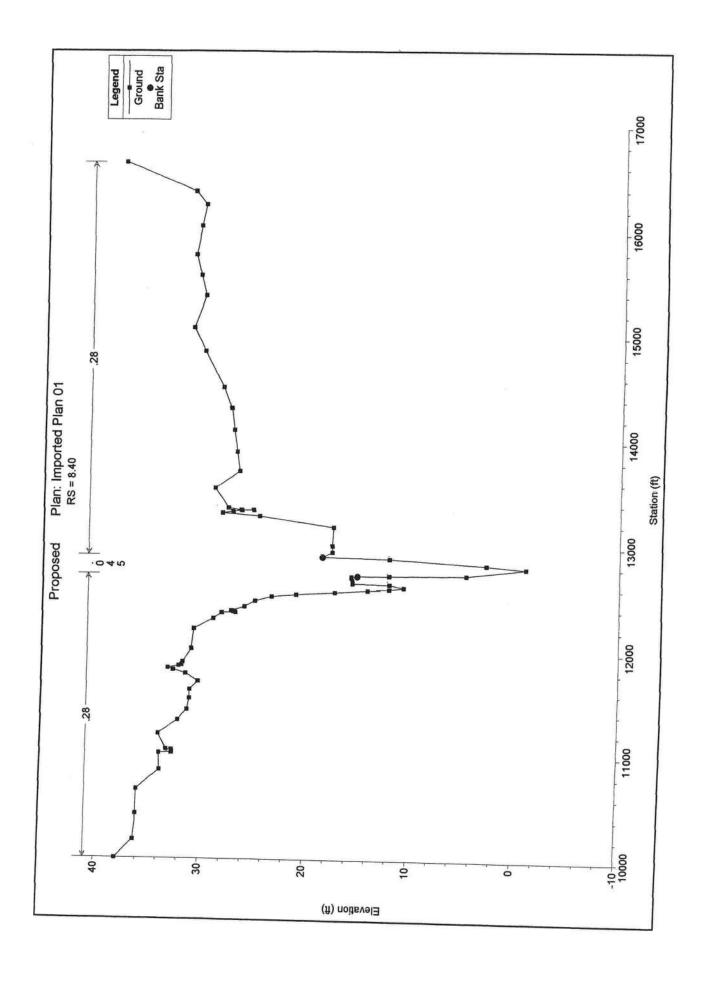
Phone 386-961-6595

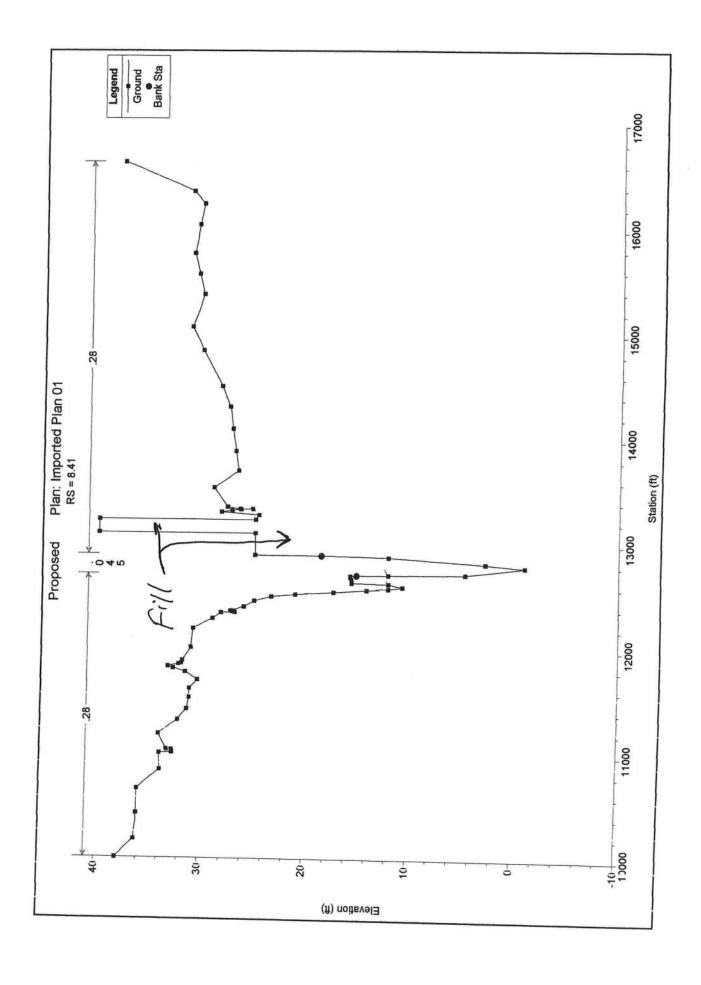
# Duplicate

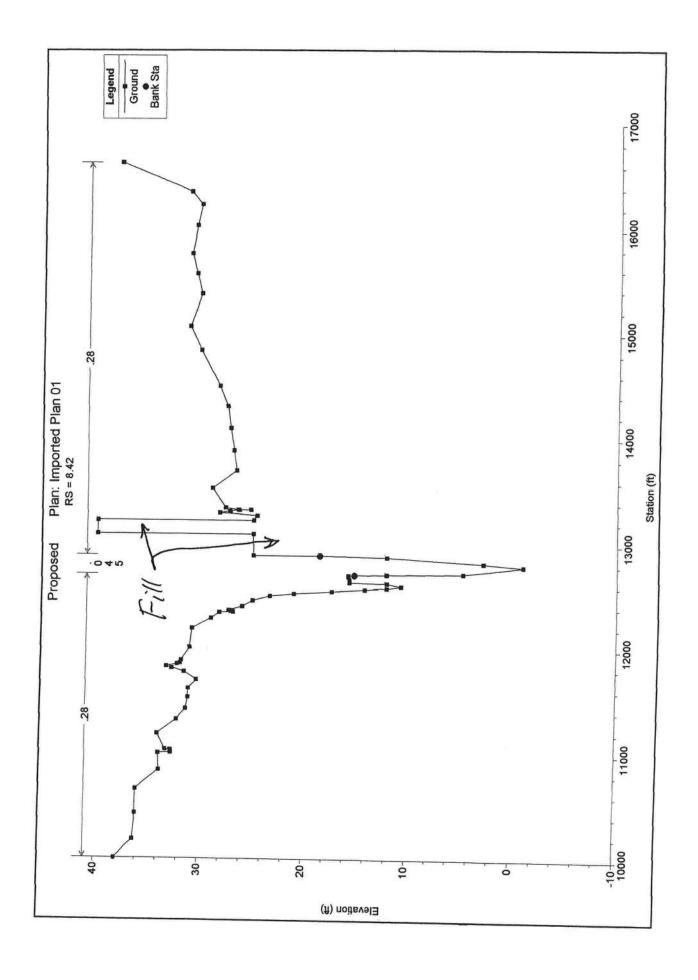
HEC-RAS	Plan: Imported Pla	River: RIVER-1	Reach: Reach-1
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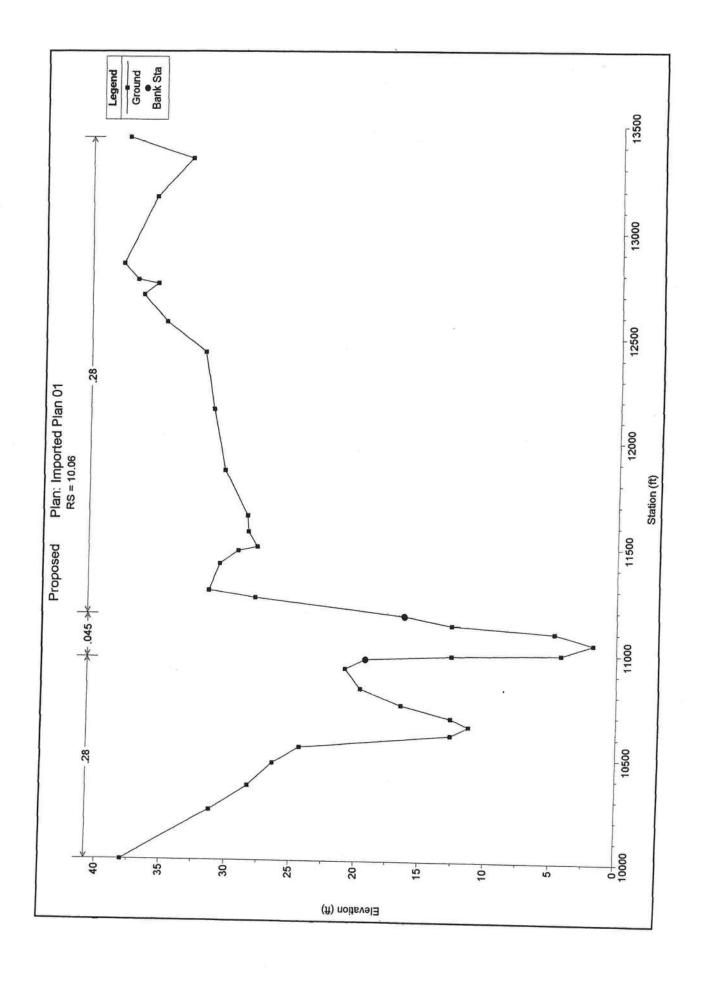
Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chi
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach-1	15.66	16359.00	10.22	36.46		36.51	0.000071	2.23	36827.11	4939.44	0.08
Reach-1	15.66	16359.00	10.22	37.16		37.23	0.000080	2.41	22401.29	1743.00	0.09
Reach-1	15.08	16359.00	6.52	36.22		36.28	0.000078	2.26	26457.61	2538.06	0.09
Reach-1	15.08	16359.00	6.52	36.93		36.99	0.000074	2.24	22525.98	1643.00	0.08
Reach-1	14.08	16359.00	10.50	35.75		35.82	0.000096	2.51	28533.02	3172.50	200
Reach-1	14.08	16359.00	10.50	36.52		36.58	0.000080	2.35	25630.53	1883.00	0.09
Reach-1	13.03	16359.00	-5.45	35.43		35.47	0.000046	2.00	10115.00		
Reach-1	13.03	16359.00	-5.45	36.20		36.25	0.000048	2.08	40415.37 28306.75	3897.86 1832.00	0.07
Reach-1	11.3	16359.00	7.00	35,10		35.14	0.000035	4.74			
Reach-1	11.3	16359.00	7.00	35.87		35.90	0.000034	1.71	33321.55 28624.53	2515.89 1615.00	0.06
Reach-1	10.06	16359.00	1.81	34.76		34.83	0.000070	244	24000.00		
Reach-1	10.06	16359.00	1.81	35.54		35.61	0.000070	2.44	21699.93 17981.17	2585.04 1217.00	0.08
Reach-1	8.43	16359.00	-1.00	34.25		34.31	0.000059	2.05	05500		
Reach-1	8.43	16359.00	-1.00	35.07		35.13	0.000055	2.35	35529.14 25212.38	5680.49 2099.00	0.08
Reach-1	7.64	16359.00	2.75	33.98		24.04	0.000070				
Reach-1	7.64	16359.00	2.75	34.81		34.04	0.000076	2.46	36023.53 23999.78	5156.06 1694.00	0.09
Reach-1	6.46	16359.00	2.52	22.00					2000.10	1034.00	0.08
Reach-1	6.46	16359.00	2.53	33.66 34.53		33.70 34.56	0.000046	1.98	37779.13	3867.31	0.07
	Particular de Contractor de la Contracto		2.00	34.00	1	34.36	0.000039	1.86	30071.99	1601.00	0.06



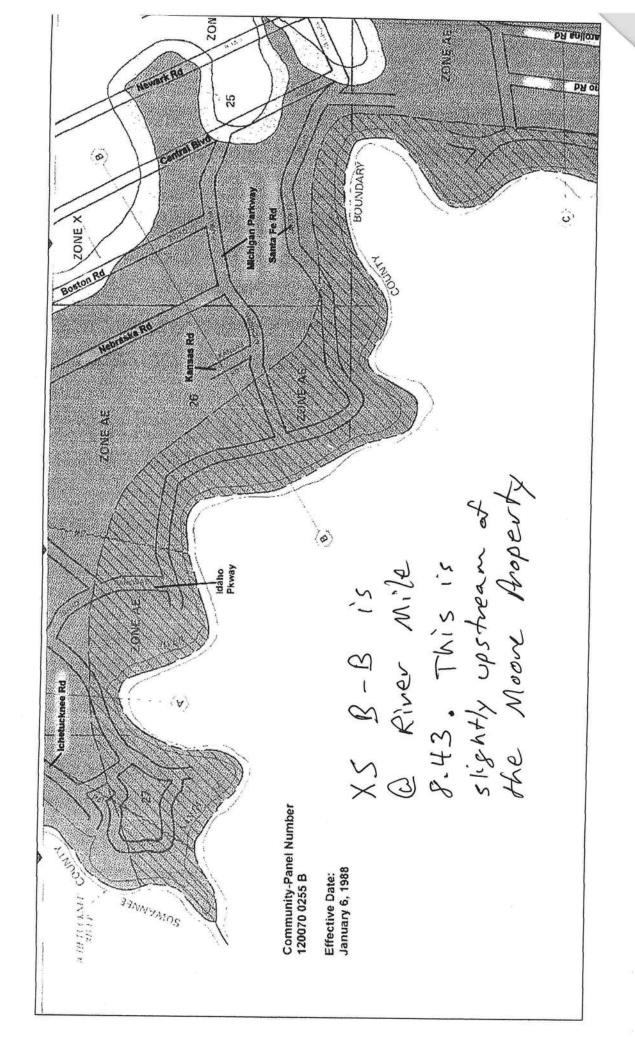








FEMA FIRM



## NOTICE OF COMMENCEMENT FORM COLUMBIA COUNTY, FLORIDA



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.

Tax Parcel ID Number 26-65-15-00641-063

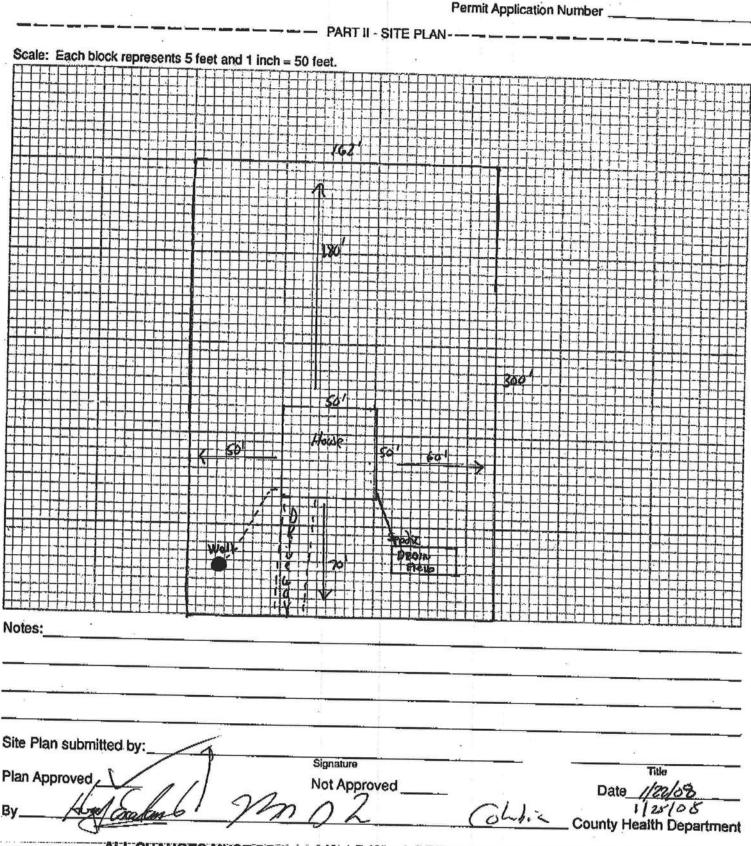
	Lot 384 Unit 6 THREE RIVERS Est 812-1132, WD/038-911	95162, OKIS 770-2321,
		DC, P. Devvitt Cason, Columbia County Page 1 of 1
2.	General description of improvement: New Single Re	amily Dwelling
	Owner Name & Address Jackie Moore 4054 	root in Dummants (a.c.)
4.	Name & Address of Fee Simple Owner (if other than owner):	N/A
5.	Contractor Name Hugo Escalan de (EWPL INC.	Phone Number <u>386</u> 2888666
6.	Address  Amount of Bond  Annual Park	Phone Number
7.	Lender Name	Phone Number
8. Opr	Persons within the State of Florida designated by the Owner rved as provided by section 718.13 (1)(a) 7; Florida Statutes:	upon whom notices or other documents may be
	Address P.O. BOX 280, Ford While El 2203	Phone Number 386 2888666
	Address P.O. BOX 280, Ford While, FC 3203 In addition to himself/herself the owner deal.	8
9.	In addition to himself/herself the owner designates Aug Ford (white FL to receive a copy of the L (a) 7. Phone Number of the designee 386,2000 (1)	o Esca 6n de of lenor's Notice as provided in Section 713.13 (1) -
9. 10.	In addition to himself/herself the owner designates	o Esca 6n de of of lenor's Notice as provided in Section 713.13 (1) -
9. 10.	In addition to himself/herself the owner designates	o Esca 6n de of lenor's Notice as provided in Section 713.13 (1) – on date is 1 (one) year from the date of recording,
9. 10.	Address F.O. Box 280, Ford White, FC 3203 In addition to himself/herself the owner designates	o Esca 6n de of lenor's Notice as provided in Section 713.13 (1) – on date is 1 (one) year from the date of recording,

Signature of Notary

#### STATE OF FLORIDA DEPARTMENT OF HEALTH

08-20886

APPLICATION FOR ONSITE SEWAGE DISPOSAL SYSTEM CONSTRUCTION PERMIT





#### 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:
JACKIE MOORE
4054 BRENTERESA COURT
SNELLVILLE, GA 30039

PERMIT NUMBER: ERP05-0455

DATE ISSUED: 10/07/2005 DATE EXPIRES: 10/07/2008 COUNTY: COLUMBIA

TRS: S26/T6S/R15E

PROJECT: JACKIE MOORE WOD PROJECT

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

JACKIE MOORE 4054 BRENTERESA COURT SNELLVILLE, GA 30039

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:

Construction of an elevated residential structure on Lot 3 and 4 of Unit 6 in Three Rivers Estates Subdivision in Columbia County. The structure shall be elevated on piles without the use of fill such that the lowest structural member of the first floor is at least one foot above the one hundred year flood elevation for this specific site. The area below the first floor shall remain open and unobstructed except for piles and stairways. Also included is the constrution of an elevated walkway, dock and the filling in of a hole to grade. All work will be completed pursuant to District Rule 40B-4.3030 Florida Administrative Code and in a manner consistent with the application package submitted by Jackie Moore on September 12, 2005.



DAVID POPE Chairman Alachua, Florida

SYLVIA J. TATUM Vice Chairman Lawtey, Florida

C. LINDEN DAVIDSON Secretary/Treasurer Lamont, Florida

KELBY ANDREWS Chiefland, Florida

DON R. EVERETT, JR. Perry, Florida

**GEORGIA JONES** Lake City, Florida

OLIVER J. LAKE Lake City, Florida

JOHN P. MAULTSBY Madison, Florida

> LOUIS SHIVER Mayo, Florida

JERRY A. SCARBOROUGH Executive Director Live Oak, Florida

### SUWANNEE RIVER WATER **MANAGEMENT** DISTRICT

August 21, 2007

Jackie Moore 4054 Brenteresa Court Snellville, GA 30039

Subject:

Conditions for Issuance, Works of the District (WOD),

ERP05-0455, Columbia County

Dear Ms. Moore:

Pursuant to Suwannee River Water Management District (District) rule 40B-4.3030 (7) and (11) (a), Florida Administrative Code (F.A.C.), you are not required to obtain a modification of your WOD permit from the District for introduction of fill less than or equal to 100 square-feet of the cross-sectional area of the floodway; or for tree removal outside of wetlands and the 75-foot setback from the top-of-riverbank.

A copy of the rule is enclosed. Per our site visit, you proposed a retaining wall with associated backfill that will result in less than 100 square-feet of cross-sectional area of the floodway. Tree removal will be necessary for such activity and consistent with the previously-mentioned

Please contact me if you need further assistance. I can be reached at 386.362.1001 or 800.226.1066 (Florida only).

Sincerely,

exprave Louis Mantini

Professional Wetland Scientist

LM/rl

Enclosure



DAVID POPE Chairman Alachua, Florida

DON R. EVERETT, JR, Vice Chairman Perry, Florida

SYLVIA J. TATUM Secretary/Treasurer Lawley, Florida

KELBY ANDREWS Chiefland, Florida

C. LINDEN DAVIDSON Lamont, Florida

DON R. EVERETT, JR, Perry, Florida

GEORGIA C. JONES Lake City, Florida

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JERRY A. SCARBOROUGH Executive Director Live Oak, Florida

#### SUWANNEE RIVER WATER MANAGEMENT DISTRICT

September 12, 2005

Jackie Moore 4054 Brenteresa Court Snellville, Georgia 30039

Subject: Receipt of Environmental Resource Permit Application for Jackie Moore WOD Project - ERP05-0455 - Columbia County

Dear Ms. Moore:

The Suwannee River Water Management District (SRWMD) received your application package on September 12, 2005, for Jackie Moore WOD Project. Your proposed project has been assigned permit number ERP05-0455, and is currently under review by Resource Management staff. You will receive a response from staff within 30 days after receipt of the application package. This is pursuant to Chapter 120.60(1), Florida Statutes.

Please be advised that it is a violation of SRWMD rules to begin any work on the project before this permit is issued. Your submitted application package does not alleviate you from having to obtain all other clearances, permits, or authorization required by any other unit of local, state, or federal government.

Florida Statutes 373.419 states, "Within 30 days after the completion of construction or alteration of any stormwater management system, dam, impoundment, reservoir, appurtenant work, or works, the permittee shall file a written statement of completion with the governing board..." We will enclose the appropriate forms upon issuance of the permit to satisfy the requirement.

If you have any further questions, please contact Elliott Bronson at 386/362-1001, or toll free at 800/226-1066. In order to better serve you, please include the permit number in all correspondence.

Sincerely,

Jon Dinges

Director, Resource Management

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#### COLUMBIA COUNTY 9-1-1 ADDRESSING

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

#### Addressing Maintenance

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

DATE REQUESTED:

4/6/2006

DATE ISSUED:

4/11/2006

**ENHANCED 9-1-1 ADDRESS:** 

1374

SW SANTA FE

DR

FORT WHITE

L 32038

PROPERTY APPRAISER PARCEL NUMBER:

26-6S-15-00641-003

Remarks:

CORRECTION, LOTS 3 & 4 UNIT 6 THREE RIVERS ESTATES S/D

Address Issued By:

Columbia County 9-1-1 Addressing / GIS Department

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





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#### SUWANNEE RIVER WATER MANAGEMENT DISTRICT

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#### 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:
JACKIE MOORE
4054 BRENTERESA COURT
SNELLVILLE, GA 30039

PERMIT NUMBER: ERP05-0455

DATE ISSUED: 10/07/2005 DATE EXPIRES: 10/07/2008 COUNTY: COLUMBIA

TRS: S26/T6S/R15E

PROJECT: JACKIE MOORE WOD PROJECT

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

JACKIE MOORE 4054 BRENTERESA COURT SNELLVILLE, GA 30039

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:

Construction of an elevated residential structure on Lot 3 and 4 of Unit 6 in Three Rivers Estates Subdivision in Columbia County. The structure shall be elevated on piles without the use of fill such that the lowest structural member of the first floor is at least one foot above the one hundred year flood elevation for this specific site. The area below the first floor shall remain open and unobstructed except for piles and stairways. Also included is the constrution of an elevated walkway, dock and the filling in of a hole to grade. All work will be completed pursuant to District Rule 40B-4.3030 Florida Administrative Code and in a manner consistent with the application package submitted by Jackie Moore on September 12, 2005.

### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Project Name: Address: City, State: Owner: Climate Zone:	Derek & Jackie Moore Lot: 4 & 5, Sub: 3 Rivers Estate Columbia County, FL 32024- Moore Residence North	, Plat:		Builder: Permitting Office: Permit Number: Jurisdiction Number: 2	usin 668 2000
a. U-factor:	nulti-family Single family if multi-family 1  oms 3  e? No area (ft²) 2220 ft²  rea: (Label reqd. by 13-104.4.5 if not default)  Description Area ble DEFAULT) 7a. (Dble Default) 343.2 ft²  DEFAULT) 7b. (Clear) 343.2 ft²  dge Insulation R=5.0, 203.0(p) ft  R=30.0, 2500.0 ft²	-	a. b. c. 13. a. b. c. 14. a. b. 15.	Cooling systems Central Unit  N/A  N/A  Heating systems Electric Heat Pump  N/A  N/A  Hot water systems Electric Resistance  N/A  Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)  HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	Cap: 44.0 kBtu/hr
I hereby certify that to this calculation are in Code.  PREPARED BY: DATE:	7.07 his building, as designed, is in compliant	se poi	Revised calci		CKEAT STATE OF THE

BUILDING OFFICIAL:

DATE:

OWNER/AGENT:

DATE:

### **SUMMER CALCULATIONS**

### Residential Whole Building Performance Method A - Details

	BASE			AS-BUILT							
GLASS TYPES .18 X Condition Floor Ar		SPM = I	Points	Type/SC		rhang Len	Hgt	Area X	SPM X	SOF	= Points
.18 2220.	.0	18.59	7429.0	1.Double, Clear	W	1.5	9.0	40.0	38.52	0.97	1495.0
				2.Double, Clear	W	6.5	9.0		38.52	0.61	2518.0
I				3.Double, Clear	NW	13.7	9.0		25.97	0.57	298.0
				4.Double, Clear	N	1.5	9.0	6.0	19.20	0.98	112.0
				5.Double, Clear	N	1.5	9.0	30.0	19.20	0.98	561.0
				6.Double, Clear	E	1.5	9.0	30.0	42.06	0.97	1223.0
				7.Double, Clear	E	1.5	9.0	12.0	42.06	0.97	489.0
				8.Double, Clear	E	1.5	9.0	16.0	42.06	0.97	652.0
				9.Double, Clear	E	1.5	9.0	40.0	42.06	0.97	1631.0
				10.Double, Clear	S	1.5	9.0	13.5	35.87	0.94	457.0
				11.Double, Clear	S	1.5	9.0	9.0	35.87	0.94	304.0
				12.Double, Clear	S	1.5	9.0	20.0	35.87	0.94	677.0
				As-Built Total:				343.2			10417.0
WALL TYPES	Area X	K BSPM	= Points	Туре		R-	Value	Area	X SPM	Л =	Points
Adjacent Exterior	0.0 1474.8	0.00 1.70	0.0 2507.2	1. Frame, Wood, Exterior		¥.	19.0	1474.8	0.90		1327.3
Base Total:	1474.8		2507.2	As-Built Total:				1474.8			1327.3
DOOR TYPES	Area X	BSPM	= Points	Туре				Area	X SPN	/I =	Points
Adjacent Exterior	0.0 0.0	0.00	0.0 0.0	2							
Base Total:	0.0		0.0	As-Built Total:				0.0			0.0
CEILING TYPES	Area X	BSPM	= Points	Туре	R	R-Valu	e A	rea X S	SPM X SC	CM =	Points
Under Attic	2220.0	1.73	3840.6	1. Under Attic		3	0.0	2500.0 1	.73 X 1.00		4325.0
Base Total:	2220.0		3840.6	As-Built Total:				2500.0			4325.0
FLOOR TYPES	Area X	BSPM	= Points	Туре		R-\	/alue	Area	X SPM	1 =	Points
Slab 2 Raised	03.0(p) 0.0	-37.0 0.00	-7511.0 0.0	1. Slab-On-Grade Edge Insul	lation		5.0 2	03.0(p	-36.20		-7348.6
Base Total:			-7511.0	As-Built Total:				203.0			-7348.6

### **SUMMER CALCULATIONS**

### Residential Whole Building Performance Method A - Details

	BASE		AS-BUILT						
INFILTRATION	Area X BSF	PM = Points			Area	X SPM	=	Points	
	2220.0 10.	21 22666.2			2220.0	10.21		22666.2	
Summer Base Points: 28932.0			Summer As-Built	Points:			31	386.9	
Total Summer Points	X System = Multiplier	Cooling Points	Component Ratio	X Duct X Multiplier (DM x DSM x AH	Multiplier	Credit Multiplier		Cooling Points	
28932.0	0.3250	9402.9	(sys 1: Central Unit 44000btuh ,S 31387 1.00 <b>31386.9 1.00</b>	SEER/EFF(13.0) Due (1.09 x 1.000 x 0. <b>0.992</b>		nt(AH),R6.0(IN 0.950 <b>0.950</b>	7	689.8 <b>689.8</b>	

### WINTER CALCULATIONS

### Residential Whole Building Performance Method A - Details

BASE			AS-	BUI	LT			
GLASS TYPES .18 X Conditioned X BWPM = Points Floor Area			hang Len	Hgt	Area X	WPM X	WOI	= Points
.18 2220.0 20.17 8060.0	1.Double, Clear	W	1.5	9.0	40.0	20.73	1.01	835.0
	2.Double, Clear	W	6.5	9.0	106.7	20.73	1.13	2499.0
	3.Double, Clear	NW	13.7	9.0	20.0	24.30	1.03	500.0
	4.Double, Clear	N	1.5	9.0	6.0	24.58	1.00	147.0
	5.Double, Clear	N	1.5	9.0	30.0	24.58	1.00	737.0
	6.Double, Clear	Е	1.5	9.0	30.0	18.79	1.02	572.0
	7.Double, Clear	Е	1.5	9.0	12.0	18.79	1.02	229.0
	8.Double, Clear	Е	1.5	9.0	16.0	18.79	1.02	305.0
	9.Double, Clear	E	1.5	9.0	40.0	18.79	1.02	763.0
	10.Double, Clear	S	1.5	9.0	13.5	13.30	1.02	183.0
	11.Double, Clear	S	1.5	9.0	9.0	13.30	1.02	122.0
	12.Double, Clear	s	1.5	9.0	20.0	13.30	1.02	272.0
	As-Built Total:				343.2			7164.0
WALL TYPES Area X BWPM = Points	Туре		R-\	/alue	Area	X WPM	=	Points
Adjacent         0.0         0.00         0.0           Exterior         1474.8         3.70         5456.8	1. Frame, Wood, Exterior		9	19.0	1474.8	2.20		3244.6
Base Total: 1474.8 5456.8	As-Built Total:				1474.8			3244.6
DOOR TYPES Area X BWPM = Points	Туре				Area	X WPM	=	Points
Adjacent         0.0         0.00         0.0           Exterior         0.0         0.00         0.0								
Base Total: 0.0 0.0	As-Built Total:				0.0	×		0.0
CEILING TYPES Area X BWPM = Points	Туре	R-\	/alue	Are	ea X W	PM X WC	M =	Points
Under Attic 2220.0 2.05 4551.0	1. Under Attic		3	0.0	2500.0 2	.05 X 1.00		5125.0
Base Total: 2220.0 4551.0	As-Built Total:				2500.0			5125.0
FLOOR TYPES Area X BWPM = Points	Туре		R-V	'alue		X WPM	=	Points
Slab 203.0(p) 8.9 1806.7 Raised 0.0 0.00 0.00	1. Slab-On-Grade Edge Insulation	on		5.0 2	03.0(p	7.60		1542.8
Base Total: 1806.7	As-Built Total:				203.0			1542.8

### WINTER CALCULATIONS

### Residential Whole Building Performance Method A - Details

BASE	AS-BUILT						
INFILTRATION Area X BWPM = Poin	s Area X WPM = Points						
2220.0 -0.59 -1309	8 2220.0 -0.59 -1309.8						
Winter Base Points: 18564.	7 Winter As-Built Points: 15766.6						
Total Winter X System = Heating Points Multiplier Points	Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)						
18564.7 0.5540 10284.	(sys 1: Electric Heat Pump 44000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Int(AH),R6.0 15766.6 1.000 (1.069 x 1.000 x 0.93) 0.443 0.950 6594.5 15766.6 1.00 0.994 0.443 0.950 6594.5						

### WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 4 & 5, Sub: 3 Rivers Estate, Plat: , Columbia County, FL, 32024PERMIT #:

BASE					AS-BUILT									
WATER HEA Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	х	Tank X Ratio	Multiplier	X Credit Multiplie		Total	
3		2635.00		7905.0	80.0	0.90	3		1.00	2693.56	1.00		8080.7	
					As-Built To	otal:							8080.7	

	CODE COMPLIANCE STATUS												
BASE					AS-BUILT								
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
9403		10285		7905		27593	7690		6595		8081		22365

**PASS** 



### **Code Compliance Checklist**

### Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 4 & 5, Sub: 3 Rivers Estate, Plat: , Columbia County, FL, 32024PERMIT #:

#### **6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST**

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

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

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

Tested sealed ducts must be certified in this house.

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

#### ESTIMATED ENERGY PERFORMANCE SCORE\* = 88.0

The higher the score, the more efficient the home.

Moore Residence, Lot: 4 & 5, Sub: 3 Rivers Estate, Plat: , Columbia County, FL, 32024-

		70, 20th 1 th 0, 10th 011	WOID LO	ate, Tiat., columbia county, i	L, 02024-
1.	New construction or existing	New	12	. Cooling systems	
2.	Single family or multi-family	Single family		a. Central Unit	Cap: 44.0 kBtu/hr
3.	Number of units, if multi-family	i			SEER: 13.00
4.	Number of Bedrooms	3	_	b. N/A	DEER. 15.50 _
5.	Is this a worst case?	No			_
6.	Conditioned floor area (ft2)	2220 ft <sup>2</sup>	_	e. N/A	_
7.	Glass type 1 and area: (Label reqd.	by 13-104.4.5 if not default)	_		S <del>-7.7</del>
a.	U-factor:	Description Area	13	Heating systems	-
	(or Single or Double DEFAULT)	7a. (Dble Default) 343 2 ft²		a. Electric Heat Pump	Cap: 44.0 kBtu/hr
b.	SHGC:	(Dole Deliulity 545.2 It		Discuss Tious Tump	HSPF: 7.70
	(or Clear or Tint DEFAULT)	7b. (Clear) 343.2 ft <sup>2</sup>		o. N/A	11311. 7.70
8.	Floor types	(Clear) 343.2 It	_		_
	Slab-On-Grade Edge Insulation	R=5.0, 203.0(p) ft		e. N/A	· · · · · · · · · · · · · · · · · · ·
	N/A		_ `		-
c.	N/A			Hot water systems	_
9.	Wall types	ж		a. Electric Resistance	Cap: 80.0 gallons
a.	Frame, Wood, Exterior	R=19.0, 1474.8 ft <sup>2</sup>		Electro resistance	EF: 0.90
b.	N/A	NOTE OF THE PROPERTY OF THE PR	_	o. N/A	E1. 0.90 _
c.	N/A		- '		: <del></del>
d.	N/A			. Conservation credits	_
e.	N/A		_	(HR-Heat recovery, Solar	: <del>:::::</del>
10.	Ceiling types			DHP-Dedicated heat pump)	
a.	Under Attic	R=30.0, 2500.0 ft <sup>2</sup>	15.	HVAC credits	PT,
b.	N/A	50 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		(CF-Ceiling fan, CV-Cross ventilation	, , , _
c.	N/A		_	HF-Whole house fan,	,
11.	Ducts(Leak Free)		_	PT-Programmable Thermostat,	
a.	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 50.0 ft		MZ-C-Multizone cooling,	
	N/A			MZ-H-Multizone heating)	
			_	The state of the s	
I cer	tify that this home has complie	d with the Florida Energy	Efficience	v Code For Building	
Cons	struction through the above ene	ergy saving features which	will be in	stalled (or exceeded)	OF THE STATE
in th	is home before final inspection	. Otherwise, a new EPL F	Display Ca	rd will be completed	9
base	d on installed Code compliant	features.	- Lopius Cu	ia will be completed	12/23/1/12
	der Signature:		D-4		S Z
	o.Bimuro.		Date:		13
Add	ress of New Home:		City/FL Z	ip:	COD WE TRUST
*NO	TE: The home's estimated ener	gy performance score is a	only availa	able through the FL 4/RFS commu	TOWN DIVINO

\*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is <u>not</u> a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar <sup>TM</sup>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.

### **Energy Code Compliance**

### **Duct System Performance Report**

Project Name:

Derek & Jackie Moore

Address:

City, State: Owner: Columbia County, FL 32024-

Moore Residence

Climate Zone: North

Builder:

Permitting Office: Permit Number: Jurisdiction Number:

**Total Duct System Leakage Test Results** 

CFM	25 Total Duct Leal	kage Test Values	
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	cfm25(tot)	cfm25(out)
2	System2	cfm25(tot)	cfm25(out)
3	System3	cfm25(tot)	cfm25(out)
4	System4	cfm25(tot)	cfm25(out)
5	Total House Duct System Leakage	Sum lines 1-4  Divide by  (Total Conditioned Floor Area)  =(Q <sub>n</sub> ,tot)  Receive credit if Q <sub>n</sub> ,tot≤ 0.03	Sum lines 1-4

I hereby certify that the above duct testing performance	
results demonstrate compliance with the Florida Energy	16
Code requirements in accordance with Section 610.1.A.	1.
Florida Building Code, Building Volume, Chapter 13	,
for leak free duct system credit.	

Signature: \_\_\_\_\_
Printed Name: \_\_\_\_

Florida Rater Certification #: \_\_\_\_\_

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: http://energygauge.com/search.htp



BUILDING OFFICIAL: \_\_\_\_\_\_
DATE: \_\_\_\_

### Zero Rise Floodway Study

Moore Property
Lots 3 and 4 of "Three Rivers Estates Unit 6" Subdivision
Columbia County

The Moore's property is located on the north side of the Santa Fe River at River Mile 8.4. 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 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 proposed model blocks all of the flow area in the vicinity of the proposed home and carport; as well as the flow area below elevation 25.0 feet (NGVD 1929 vertical datum) between the carport and the right top of bank of the river. For modeling purposes it was assumed that the home and boardwalk would block the cross section for a length of 70°. The cross section at River Mile 8.43 was used as the Approach Section and was copied downstream 150 feet (XS 8.42 Upstream Face), copied downstream 220 feet (XS 8.41 Downstream Face), and copied downstream 370 feet (XS 8.40 Exit Section). Cross Sections 8.41 and 8.42 were modified by blocking all flow area between Ground Stations 13101 and 13230 (carport and home) and all area below elevation 25.0 between Ground Stations 12897 and 13100 (boardwalk to river). The right top of bank in the model is at Ground Station 12896. Cross section plots are attached.

Comparison of the floodway elevations at the cross sections near the proposed fill indicates that the fill will not increase the floodway elevations (all elevation differences area less than 0.05 feet and round to 0.0 feet when considered to the nearest tenth of a foot). The fill placed on the property will cause zero rise in the floodway. Elevations from the duplicate and the proposed floodway models are summarized below.

Cross Section	Duplicate Floodway Elevation	Proposed Floodway Elevation
7.64	34.8	34.8
8.40 Exit	NA	35.0
8.41 Face	NA	35.0
8.42 Face	ŇA	35.0
8.43 Approach	35.1	35.1
10.06	35.5	35.5
11.30	35.9	35.9
13.03	36.2	36.2

The proposed minimum finished floor elevation is elevation 36.1 feet NGVD 1929 vertical datum. The proposed minimum low member elevation for the home and carport is elevation 34.3 feet NGVD 1929 vertical datum.

P.E. Number 47756

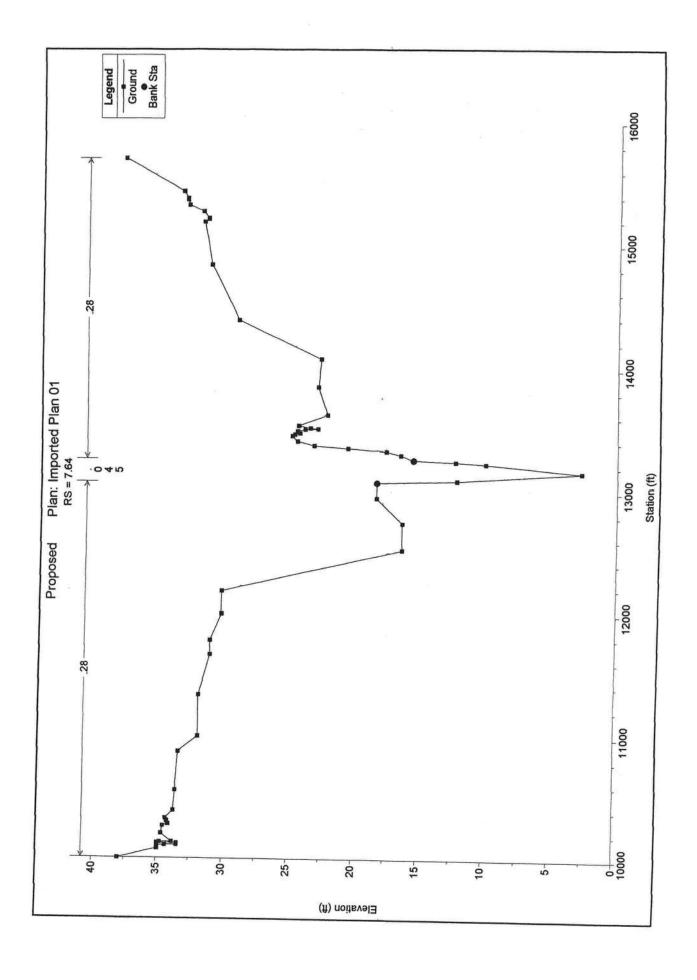
8725 – 288<sup>th</sup> Street Branford, FL 32008

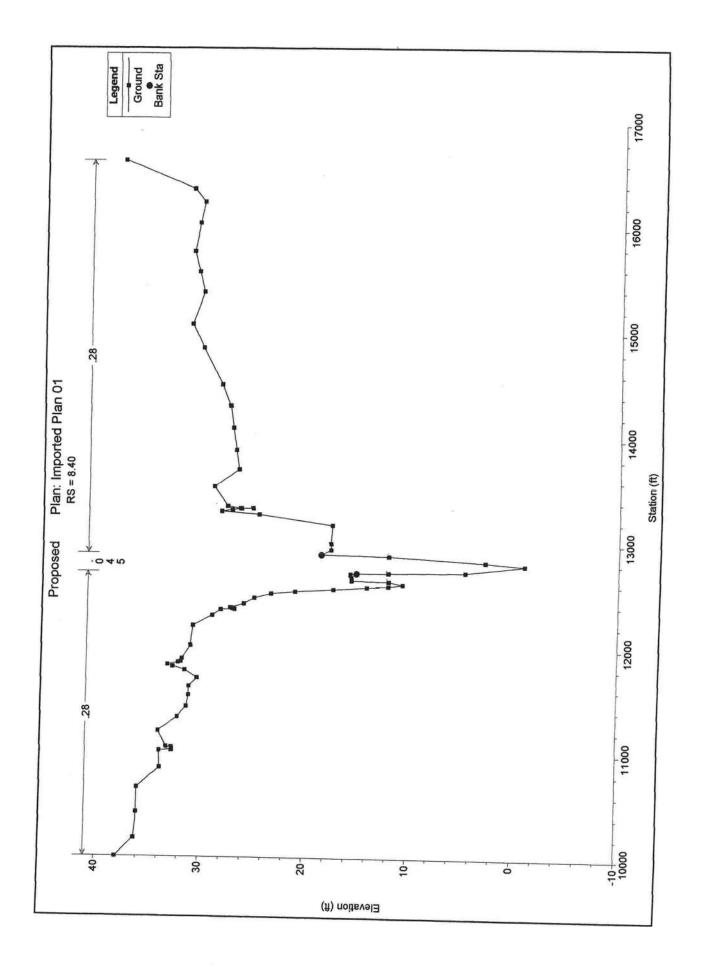
Phone 386-961-6595

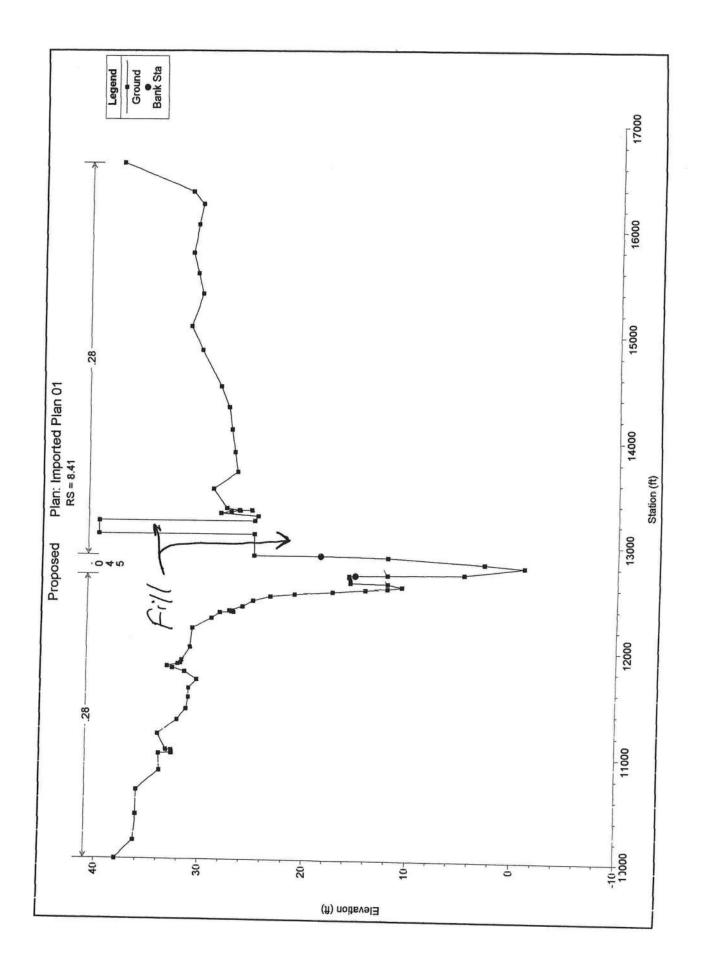
# Duplicate

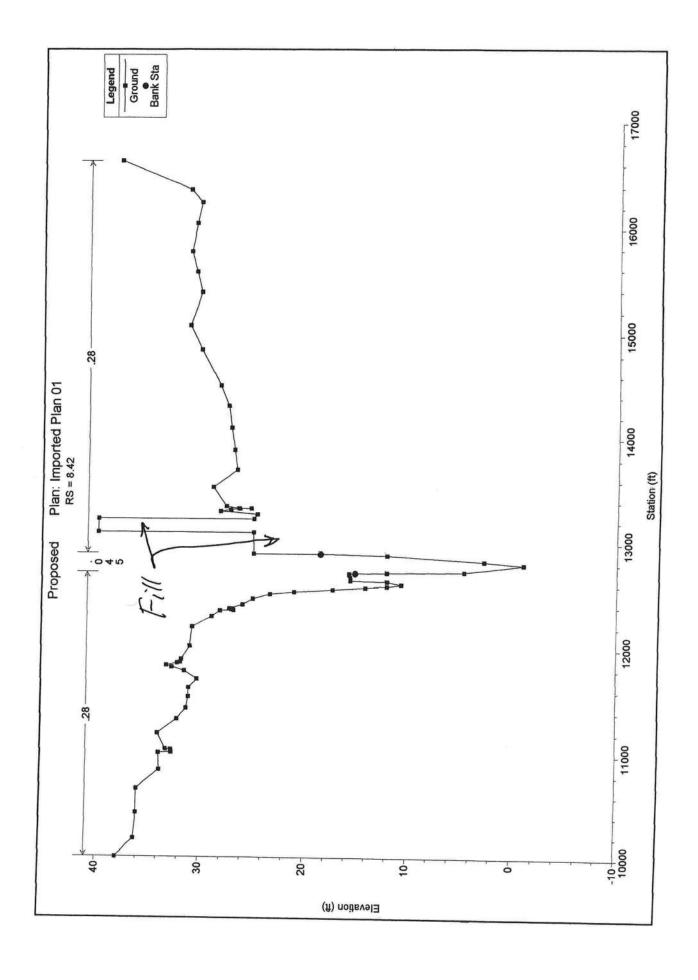
HEC-RAS	Plan: Imported Pla	River: RIVER-1	Reach: Reach-1
---------	--------------------	----------------	----------------

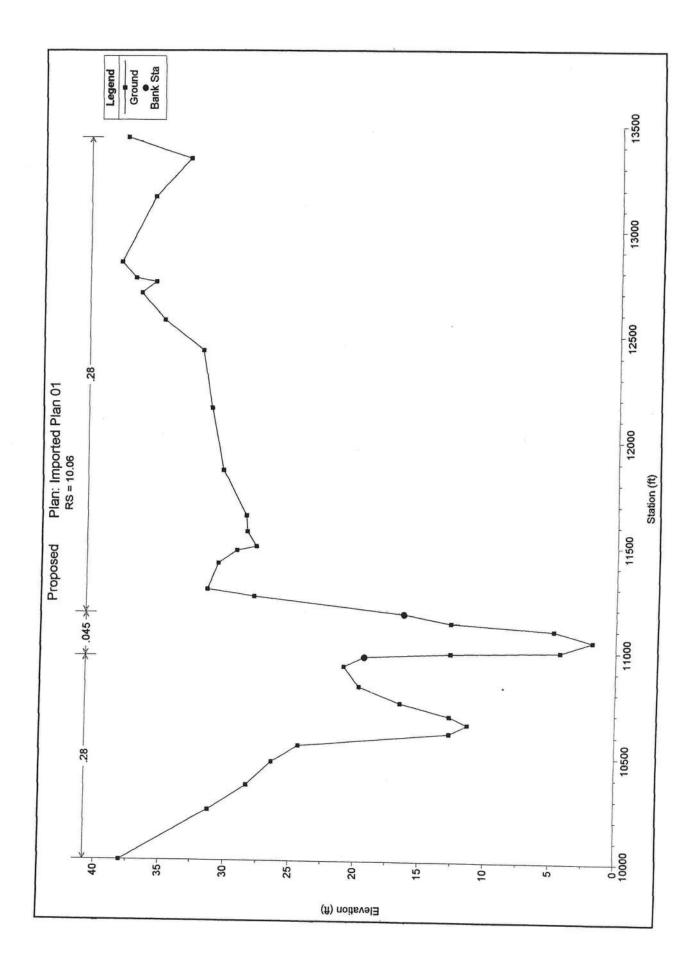
Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chni	Flow Area	Top Width	Froude # Chl
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
Reach-1	15.66	16359.00	10.22	36.46		36.51	0.000071	2.23	36827.11	4939.44	0.08
Reach-1	15.66	16359.00	10.22	37.16		37.23	0.000080	2.41	22401.29	1743.00	0.09
Reach-1	15.08	16359.00	6.52	36.22		36.28	0.000078	2.26	26457.61	2538.06	0.09
Reach-1	15.08	16359.00	6.52	36.93		36.99	0.000074	2.24	22525.98	1643.00	0.08
Reach-1	14.08	16359.00	10.50	35.75		35.82	0.000096	2.51	28533.02	3172.50	0.09
Reach-1	14.08	16359.00	10.50	36.52		36.58	0.000080	2.35	25630.53	1883.00	0.09
Reach-1	13.03	16359.00	-5.45	35.43		35.47	0.000046	2.08	40415.37	3897.86	0.07
Reach-1	13.03	16359.00	-5.45	36.20		36.25	0.000051	2.23	28306.75	1832.00	0.07
Reach-1	11.3	16359.00	7.00	35.10		35.14	0.000035	1.71	33321.55	2515.89	0.06
Reach-1	11.3	16359.00	7.00	35.87		35.90	0.000034	1.72	28624.53	1615.00	0.06
Reach-1	10.06	16359.00	1.81	34.76		34.83	0.000070	2.44	21699.93	2585.04	0.08
Reach-1	10.06	16359.00	1.81	35.54		35.61	0.000064	2.38	17981.17	1217.00	0.08
Reach-1	8.43	16359.00	-1.00	34.25		34.31	0.000059	2.35	35529.14	5680.49	0.08
Reach-1	8.43	16359.00	-1.00	35.07		35.13	0.000055	2.32	25212.38	2099.00	0.07
Reach-1	7.64	16359.00	2.75	33.98		34.04	0.000076	2.46	36023.53	5156.06	0.09
Reach-1	7.64	16359.00	2.75	34.81		34.87	0.000072	2.45	23999.78	1694.00	0.08
Reach-1	6.46	16359.00	2.53	33.66		33.70	0.000046	1.98	37779.13	3867.31	0.07
Reach-1	6.48	16359.00	2.53	34.53		34.56	0.000039	1.86	30071.99	1601.00	0.07

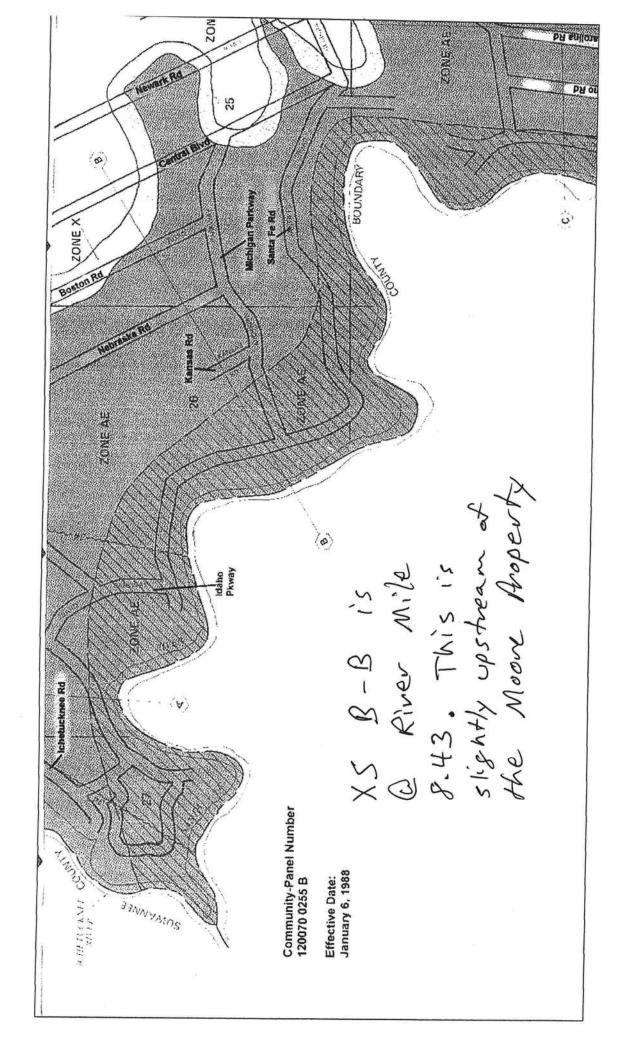




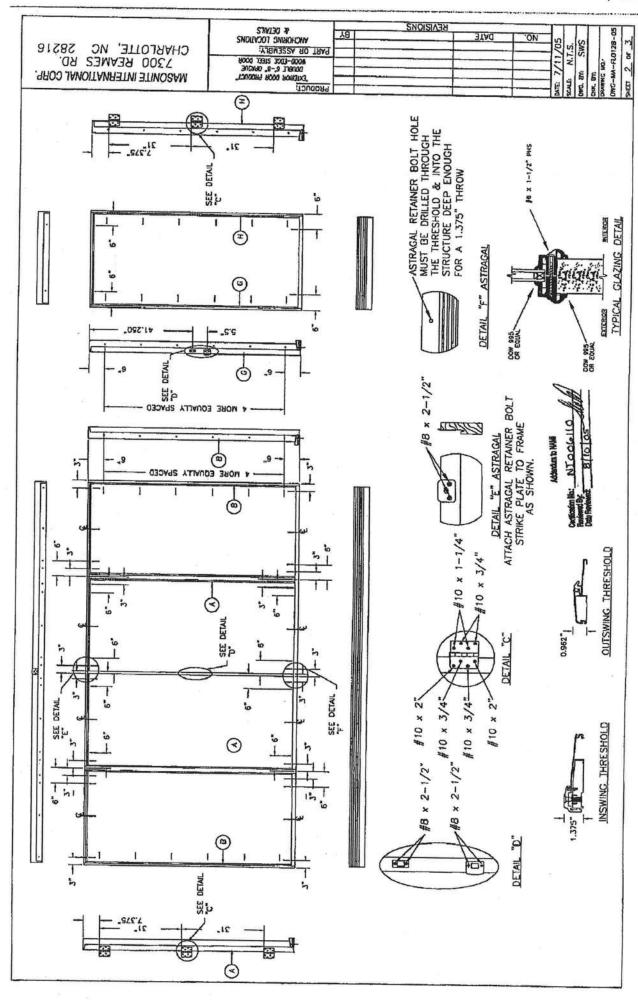


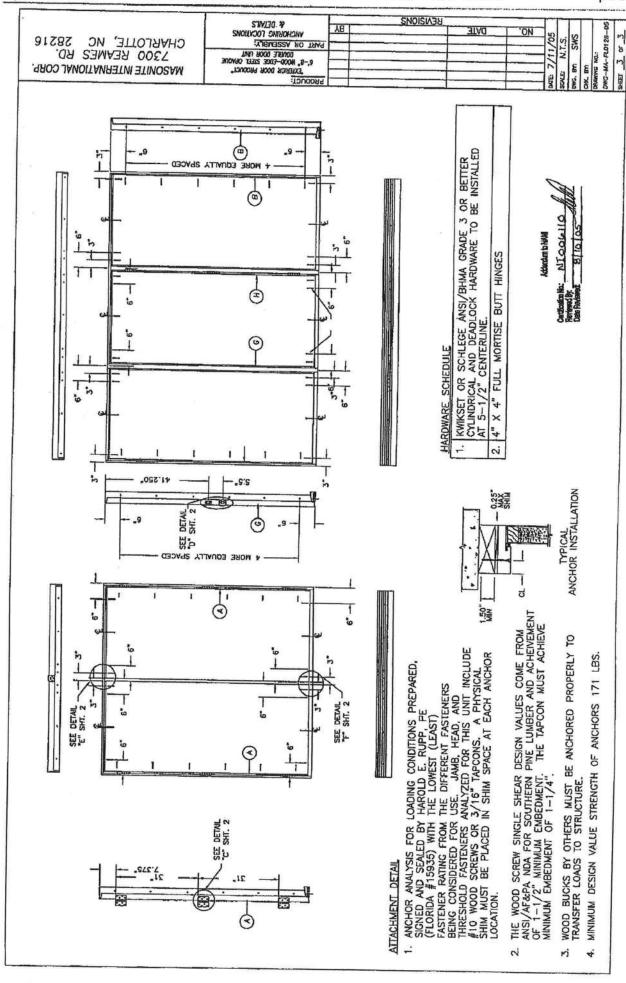




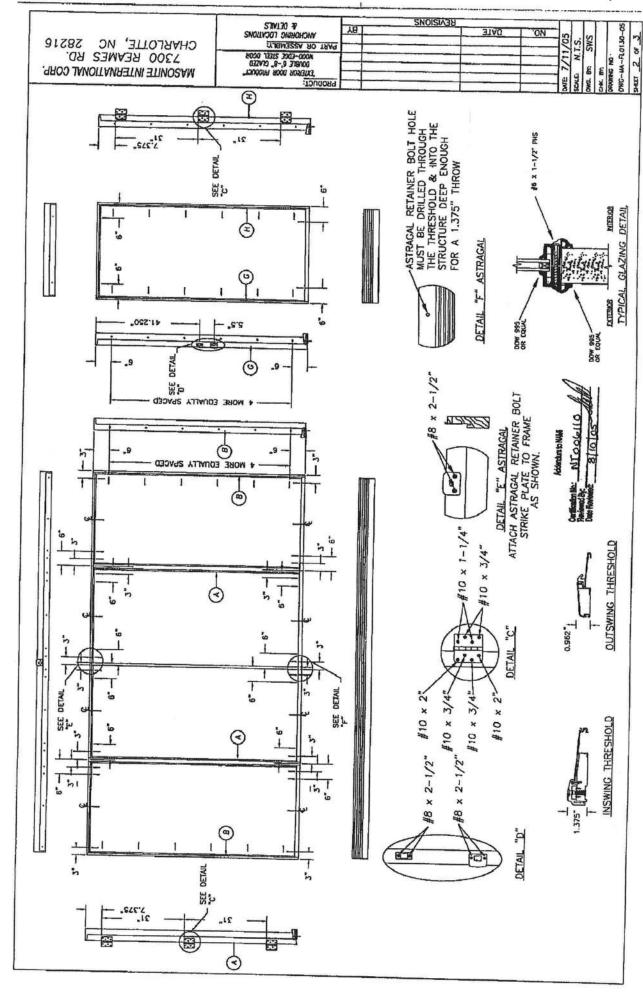


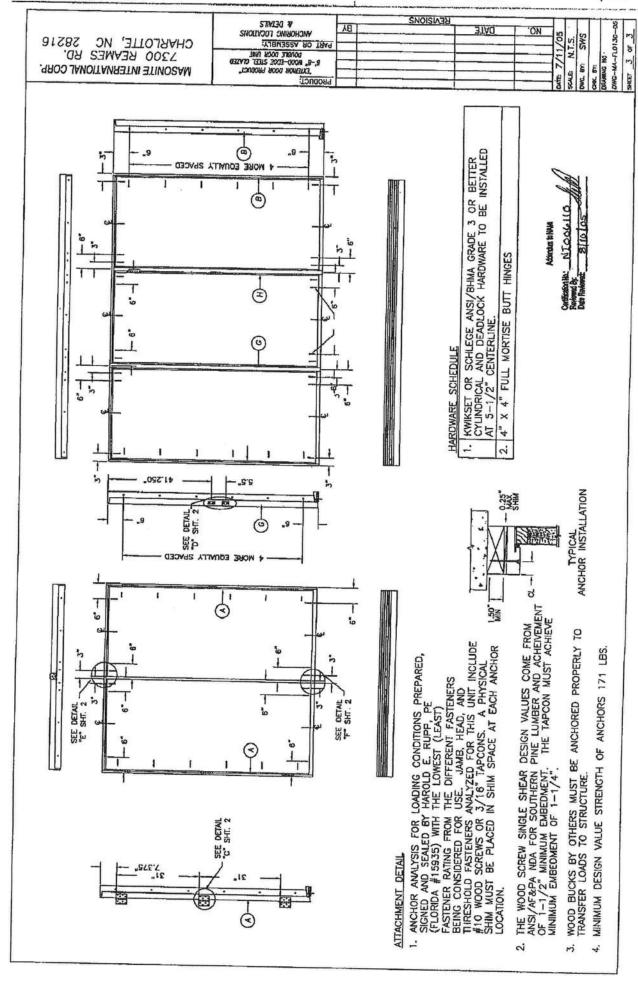
ES BD.	MASONITE INTERNA 7300 REAMI CHARLOTTE, NO	S GONERM MOLES VECENIEMS VECENIEMS VECENIEMS INSET 0.00 LINES 21EET 0008 LINES 0.00 LINE	90 19A9 1	DATE REVISIONS	ON	DATE. 7/11/05 SOULE N.T.S. DING. BY: SWS CHK. DY: BRAWNE. NO: ONCMA-FL0128-Q5
36.375" MAX. PANEL WDTH  Y/ASTRAGAL  FRAME WDTH  FRAME WDTH		PANE TANE	DOUBLE INSWING UNIT W/SIDELITES  Admatatio Wild  Confission in:  NI O O C I I O  Reference  Before Elio OS  Das Preference  Da		SINGLE DOOR UNIT W/SIDELITES DOUBLE DOOR UNIT W/SIDELITES	WATER INFILIRATION PERFORMANCE IS 1D TO BE 15% OF DESIGN PRESSURE INSMING OUTSMING 1 + 19.0 + 55.0 / -55.0 0 / -19.0 + 55.0 / -55.0 0 / -19.0 + 55.0 / -55.0 0 / -19.0 + 55.0 / -55.0 0 / -19.0 + 55.0 / -55.0
21" MAX	0.1.0. 63" MAX. 63" MAX.				SINGLE DOOR UNIT	MAX WIDTH DESIGN PRESSURE RATING RECURED TO 37.5 +76.0 / -76.0 +76.0 +76.0 +19.0 / -75.0 +19.0 / -75.0 +19.0 / -19.0 +19.0 / -10.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 +19.0 / -10.0 / -10.0 +19.0
SIDE-HINGED WOOD-EDGE STEEL DOOR UNIT 6-8" DOUBLE DOOR WITH / WITHOUT SIDELITES	Q	4 PLASTICS TESTING OF LITE FRAME WATERAL: TEST DESCRIPTION DESDAMTION RESULT SELF IGNITION TERR? ASTIM D1929 680° F > 650° F RATE OF BURNING ASTIM D6.35 1.10 IN/AIN SIMORE DENSITY ASTIM D6.35 1.10 IN/AIN SIMORE DENSITY ASTIM D6.38 1.7.48,20 DIFF * COMPARATINE TENSILE STRENGTH AFTER WEATHERING 4500 HOURS KENON ARC METHOD 1			SINGLE DOOR UNIT DOUBLE DOOR UNIT SINGLE DOOR UNIT	SHEET # DESCRIPTION X 1 ITPICAL ELEVATIONS & GENERAL NOTES 2 ANCHORING LOCATIONS & DETAILS 3 ANCHORING LOCATIONS & DETAILS COX O XO 3 ANCHORING LOCATIONS & DETAILS COX O XO C





.co <del>np.</del> .d	MASOUITE INTERNATIONAL 7300 REAMES RI	SOURTH NOTES STATEMENT NOTES S	100H	OATE REVISIONS	ON.	DATE: 7/11/05 SOULE: N.T.S. OWG. BY: SWS CHR. BY: GRANIE NO. ONG-WATER NO. ONG-WATER NO.
149" MX DYENUL FRAME WIDTH	0770		DOUBLE INSWING UNIT W/SIDELITES  Adrian No.: NIOOLEILO  Conficient No.: NIOOLEILO  Reserved No.:		SINGLE DOOR UNIT W/	DESIGN PRESSURE RATING REQUIRED TO BE 13% OF DESIGN PRESSURE RISHING REQUIRED TO BE 13% OF DESIGN PRESSURE RISHING REQUIRED TO BE 13% OF DESIGN PRESSURE OUTSIMING OUTSIMING OUTSIMING OUTSIMING A 50.5 + 19.0 / -19.0 + 450.5 / -50.5 + 19.0 / -19.0 + 450.5 / -50.5 + 50.5 + 19.0 / -19.0 + 450.5 / -50.5 + 50.5 + 19.0 / -19.0 + 450.5 / -50.5 + 50.5 + 19.0 / -19.0 + 450.5 / -50.5 + 50.5 + 19.0 / -19.0 + 450.5 / -50.5 + 19.0 / -19.0 + 450.5 / -50.5 + 19.0 / -19.0 + 450.5 / -50.5 + 19.0 / -19.0 + 450.5 / -50.5 + 19.0 / -19.0 + 450.5 / -50.5 + 19.0 / -19.0 + 450.5 / -50.5 / -50.5 + 19.0 / -19.
时间 Masonite.	6'-8" GLAZED DOUBLE DOOR WITH / WITHOUT SIDELITES  SENERAL NOTES  1. ENAURTED FOR USE IN LOCATIONS ADHERING TO INFERENCE REQUIRE REQUIRE PRESSURE RECURRED. BUT SHE STRUCTURES, DESIGN LOADS FOR BILLUINGS AND OFFER STRUCTURES, DESIGN LOADS FOR BILLUINGS AND OFFER STRUCTURES.  2. MURRICAME PROTECTIVE SYSTEM (SHUTTERS) IS REQUIRED  3. POLYMETHANE CORE FAME SPREAD INDEX OF SO AND SHOKE DEPLOYER STRUCTURED.  4. PARTICS TESTING OF LIFE FRAME MARFRAM.	150 IV. NA. NA. NA. NA. NA. NA. NA. NA. NA. NA			SINGLE DOOR UNIT	SHEET #   TONFIGE OF CONTENTS   LONFIGE MAX WIGH HIST







### ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

### Rendered to:

### MI WINDOWS AND DOORS, INC.

SERIES/MODEL: 3540
PRODUCT TYPE: PVC Triple Single Hung

Title	Summary of Results
Rating	H-R30* 108 x 74
Operating Force	17 lbf max.
Air Infiltration	0.11 cfm/ft <sup>2</sup>
Water Resistance Test Pressure	4.50 psf
Uniform Load Deflection Test Pressure	±47.2 psf
Uniform Load Structural Test Pressure	+52.5 psf, -70.8 psf
Forced Entry Resistance	Grade 10

Reference should be made to ATI Report No. 50172.01-122-47 for complete test specimen description and data.

130 Derry Court York, PA 17402-9405 phone: 717-764-7700 fax: 717-764-4129

www.archtest.com



### ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

### Rendered to:

### MI WINDOWS AND DOORS, INC. P.O. Box 370 Gratz, Pennsylvania 17030-0370

Report No.: 50172.01-122-47
Revision 1: 08/30/04
Test Dates: 06/11/04
Through: 07/07/04
Report Date: 07/27/04
Expiration Date: 07/07/08

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Windows and Doors, Inc. to witness testing on a Series/Model 3540, triple single hung window at MI Windows and Doors, Inc. test facility in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for a H-R30\* 108 x 74 rating. Reference should be made to Report No. 01-45617.02 for Gateway Performance results. Test specimen description and results are reported herein.

General Note: An asterisk (\*) next to the performance grade indicates that the size tested for optional performance was smaller than the Gateway test size for the product type and class.

Test Specification: The test specimen was evaluated in accordance with ANSI/AAMA/NWWDA 101/I.S.2-97, Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.

### **Test Specimen Description:**

Series/Model: 3540

Product Type: PVC Triple Single Hung

Overall Size: 8' 11-5/8" wide by 6' 1-3/4" high

Interior Sash Size (3): 2' 9-3/4" wide by 3' 0-1/8" high

Fixed Daylight Opening Size (3): 2' 7-3/4" wide by 2' 9-3/16" high

Screen Size: 2' 9" wide by 2' 11-1/4" high

Overall Area: 55.1 ft2

130 Derry Court York, PA 17402-9405 phone: 717-764-7700 fax: 717-764-4129 www.archtest.com



50172.01-122-47 Page 2 of 7

Revision 1: 08/30/04

Test Specimen Description: (Continued)

Finish: All PVC was white.

Glazing Details: All glazing consisted of 7/8" thick sealed insulating glass units that were comprised of two sheets of 3/32" thick clear annealed glass and a metal reinforced butyl spacer system. The glass was interior glazed against a double-sided adhesive glazing tape and secured with vinyl glazing beads.

### Weatherstripping:

Description	Quantity	Location
0.187" backed by 0.250" high polypile	1 Row	Meeting rail, stiles
0.187" backed by 0.250" high polypile	1 Row	Sill leg
0.187" backed by 0.310" high polypile	1 Row	Stiles
0.187" backed, 1/4 foam filled single leaf vinyl bulb gasket	1 Row	Bottom rail
0.187" backed, 1/8 foam filled vinyl bulb gasket	1 Row	Fixed meeting rail

Frame Construction: The frame was constructed of extruded PVC members. Corners were mitered and welded. End caps were utilized on the ends of the meeting rail and secured with three #6 by 5/8" screws per cap. The fixed meeting rail was then secured to the frame utilizing three #6 by 5/8" screws.

Sash Construction: The sash was constructed of extruded PVC members. Corners were mitered and welded.

Screen Construction: The screen was constructed of roll-formed aluminum. Corners were square-cut and secured with vinyl corner keys. The mesh was secured with a flexible vinyl spline.



50172.01-122-47 Page 3 of 7 Revision 1: 08/30/04

Test Specimen Description: (Continued)

### Hardware:

Quantity	<u>Location</u>
6	One per jamb
6	Meeting rail, 7" from each end
6	Each end of the interior meeting rail
6	Each end of the bottom rail
	6 6

### Drainage:

Description	Quantity	Location
3/32" by 1/2" weepslot	12	Bottom rail, 2 at each end
1/8" by 1" weepslot	2	Sill, 3" from each end
3/16" by 1/2" weepslot	2	Screen track, 2-1/2" from each end

Reinforcement: The interior meeting rail and bottom rail utilized a roll-formed "I beam" steel reinforcement (Drawing #GVL-451-020). The fixed meeting rail utilized a steel reinforcement (Drawing #RF-104S-020). The intermediate frame rails utilized a steel reinforcement (Drawing #2.75x.125 steel plate).

Installation: The unit was installed into a wood test buck. The nail fin was set against a silicone bedding and fastened to the buck with #6 by 1-5/8" screws, 2" from corners and 8" on center. 3/4" washers were utilized along the entire length of the sill, at midspan of the head and jambs, and at all corners.

Test Results: The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.6.1.1	Operating Force	17 lbf	30 lbf max.
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	0.11 cfm/ft <sup>2</sup>	0.3 cfm/ft <sup>2</sup> max.

Note #1: The tested specimen meets (or exceeds) the performance levels specified in ANSI/AAMA/NWWDA 101/I.S.2-97 for air infiltration.



50172.01-122-47 Page 4 of 7

Revision 1: 08/30/04

Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.3	Water Resistance per ASTM E 5 (with and without screen)	47	See Note #2
Note #2: The results are list	e client opted to start at a pressure sted under "Optional Performance".	higher than the m	inimum required. Those
2.1.4.1	Uniform Load Deflection per AS (Deflections reported were taken (Loads were held for 52 seconds)	on the mullion)	
	35.0 psf (positive) 35.0 psf (negative)	0.39" 0.54"	See Note #3 See Note #3

Note #3: The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

2.1.4.2	Uniform Load Structural per ASTM E 330 (Permanent sets reported were taken on the mullion) (Loads were held for 10 seconds)					
	52.5 psf (positive)	<0.01"	0.27" max.			
	52.5 psf (negative)	0.07"	0.27" max.			
2.2.6.1.2	Deglazing Test per ASTM E 987 In operating direction - 70 lbs					
	Interior meeting rail	0.13"/26%	0.50"/100%			
	Bottom rail	0.11"/22%	0.50"/100%			
	In remaining direction - 50 lb	os				
	Left stile	0.09"/18%	0.50"/100%			
	Right stile	0.10"/20%	0.50"/100%			
2.1.7	Welded Corner Test	Meets as stated	Meets as stated			



50172.01-122-47 Page 5 of 7

Revision 1: 08/30/04

Test Results: (Continued)

<u>Paragraph</u>	Title of Test - Test Method	Results	Allowed
2.1.8	Forced Entry Resistance per AS	TM F 588	
	Type: A	Grade: 10	
	Lock Manipulation Test	No entry	No entry
	Test A1	No entry	No entry
	Test A2	No entry	No entry
	Test A3	No entry	No entry
	Test A4	No entry	No entry
	Test A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Perfo	ormance		
4.3	Water Resistance per ASTM E 5 (with and without screen)	47	
	4.50 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per AS (Deflections reported were taken (Loads were held for 52 seconds)	on the mullion)	
	47.2 psf (positive)	0.73"	See Note #3
	47.2 psf (negative)	0.92"	See Note #3
4.4.2	Uniform Load Structural per AST (Permanent sets reported were tal (Loads were held for 10 seconds)	ken on the mullion)	
	52.5 psf (positive)	<0.01"	0.27" max.
	70.8 psf (negative)	0.21"	0.27" max.



50172.01-122-47 Page 6 of 7 Revision 1: 08/30/04

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without the approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Digitally Signed by: Jeramie D. Grabosch

Jeramie D. Grabosch

Technician

JDG:vlm

It I ha

Steven. M. Urich, P.E. Senior Project Engineer



### ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to:

MI WINDOWS AND DOORS, INC.

SERIES/MODEL: 3500/3540 PRODUCT TYPE: PVC Fixed Window

Title	Summary of Results
Rating	F-LC25 72 x 96
Air Infiltration	<0.01 cfm/ft <sup>2</sup>
Water Resistance Test Pressure	12.0 psf
Uniform Load Deflection Test Pressure	±25.0 psf
Uniform Load Structural Test Pressure	±37.5 psf
Forced Entry Resistance	Grade 10

Reference should be made to ATI Report No. 56538.01-122-47 for complete test specimen description and data.

130 Derry Court York, PA 17402-9405 phone: 717-764-7700 fax: 717-764-4129

fax: 717-764-4129 www.archtest.com



### ANSI/AAMA/NWWDA 101/I.S.2-97 TEST REPORT

### Rendered to:

### MI WINDOWS AND DOORS, INC. P.O. Box 370 Gratz, Pennsylvania 17030-0370

Report No.: 56538.01-122-47

Test Dates:

03/29/05

Through:

03/31/05

Report Date:

08/25/05

**Expiration Date:** 

03/29/09

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Windows and Doors, Inc. to witness testing on a Series/Model 3500/3540, PVC fixed window at MI Windows and Doors, Inc. test facility in Elizabethville, Pennsylvania. The sample tested successfully met the performance requirements for an F-LC25 72 x 96 rating. Test specimen description and results are reported herein.

Test Specification: The test specimen was evaluated in accordance ANSI/AAMA/NWWDA 101/I.S.2-97, Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.

### **Test Specimen Description:**

Series/Model: 3500/3540

Product Type: PVC Fixed Window

Overall Size: 6' 0" wide by 8' 0" high

Daylight Opening Size: 5' 7-7/8" wide by 7' 8" high

Overall Area: 48.0 ft<sup>2</sup>

Finish: All PVC was white.

Glazing Details: The window utilized 7/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The windows were interior glazed onto double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

> 130 Derry Court York, PA 17402-9405 phone: 717-764-7700 fax: 717-764-4129

www.archtest.com





Test Specimen Description: (Continued)

Frame Construction: The frame was constructed from extruded vinyl with mitered and welded corners. The interior perimeter utilized a snap-in frame insert.

### Drainage:

Description	Quantity	Location
1/8" wide by 1" long weephole	2	3" from sill ends on sill face

Reinforcement: No reinforcement was utilized.

Installation: The windows were installed into a #2 Spruce-Pine-Fir wood buck. The nail fin was back bedded in silicone and secured with #6 x 1-5/8" drywall screws located 2" from ends and 10" on center, washers were used on the screws at the midspan of all members.

#### Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.2	Air Infiltration per ASTM E 283 1.57 psf (25 mph)	<0.01 cfm/ft <sup>2</sup>	0.30 cfm/ft <sup>2</sup> max.

Note #1: The tested specimen meets (or exceeds) the performance levels specified in ANSI/AAMA/NWWDA 101/I.S.2-97 for air infiltration.

2.1.3	Water Resistance per ASTI (with and without screen)	M E 547	
	3.75 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection p (Deflections reported were (Loads were held for 52 sec	taken on the jamb)	
	15.0 psf (positive)	0.03"	See Note #2
	15.0 psf (negative)	0.02"	See Note #2
2.1.4.2	Uniform Load Structural pe		
	(Permanent sets reported w		
	(Loads were held for 10 sec	onds)	
	22.5 psf (positive)	<0.01"	0.37" max.
	22.5 psf (negative)	<0.01"	0.37" max.

Note #2: The Uniform Load Deflection test is not a requirement of ANSI/AAMA/NWWDA 101/I.S.2-97 for this product designation. The deflection data is recorded in this report for special code compliance and information only.



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### Test Results: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.1.7	Welded Corner Test	Meets as stated	Meets as stated
2.1.8	Forced Entry Resistance per AST	M F 588	
	Type: D	Grade: 10	
	Hand and Tool Manipulation Test	No entry	No entry
	Optional Performance		
4.3	Water Resistance per ASTM E 54 (with and without screen)	7	<b>8</b> ]
	12.0 psf	No leakage	No leakage
4.4.1	Uniform Load Deflection per AST (Deflections reported were taken of (Loads were held for 52 seconds)		
	25.0 psf (positive)	0.06"	See Note #2
	25.0 psf (negative)	0.04"	See Note #2
4.4.2	Uniform Load Structural per AST (Permanent sets reported were take (Loads were held for 10 seconds)		
	37.5 psf (positive)	0.01"	0.37" max.
	37.5 psf (negative)	0.02"	0.37" max.



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Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years from the original test date. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator. This report may not be reproduced, except in full, without the approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC:

Digitally Signed by: Mark A. Hoss

Mark A. Hess Technician

MAH:jld

It I W

Digitally Signed by: Steven M. Urich

Steven M. Urich, P.E. Senior Project Engineer



56538.01-122-47 Page 5 of 5

### Revision Log

Rev. #	<u>Date</u>	Page(s)	Revision(s)
0	08/25/05	N/A	Original report issue



Appendix A



#### INSTALLATION INSTRUCTIONS FOR NEW CONSTRUCTION VINYL FIN WINDOWS

READ THESE INSTRUCTIONS COMPLETELY BEFORE BEGINNING. Please inspect your MI Windows and Doors, Inc. product thoroughly before beginning installation. Inspect the opening and the product and do not install it there is any observable damage or other irregularity. The product specification sheet and warranty include important information regarding your product and may include product-specific installation requirements (for example, types of fast-eners to be used with impact recistant windows and limitations on the height at which the product may be installed; if you did not obtain copies please contact MI Windows and Doors, Inc. Local building codes may impose additional requirements, and those codes supercede these instructions.

#### FAILURE TO FOLLOW THESE INSTRUCTIONS, AND BUILDING CODE REQUIREMENTS, MAY AFFECT THE REMEDIES AVAILABLE UNDER YOUR WARRANTY.

- IF THE BUILDING HAS A WEATHER RESISTANT BARRIER (WRB) LE, HOUSE WRAP, PREPARE THE OPENING ACCORDING TO WRB MANUFACTURER'S INSTRUCTIONS. AT EACH
  TOP CORNER MAKE A 45° CUT IN THE WRB, FOLD UP THE WRB SO THAT THE TOP NAIL FIN OF THE UNIT CAN BE INSTALLED UNDERNEATH IT. (See Figure 1 below)
  FLASHING OF THE WINDOW OPENING IS RECOMMENDED AND MAY BE REQUIRED BY SOME BUILDING CODES.
- MAKE SURE THE ROUGH OPENING IS PLUMB, SOUARE AND THE SILL PLATE IS LEVEL. ROUGH OPENINGS SHOULD BE 1/2" LARGER THAN WINDOW FRAME IN WIDTH & HEIGHT, (See Figure 2 below)
- 9. CLOSE & LOCK THE SASH THROUGHOUT INSTALLATION. KEEP THE SIDE JAMBS PLUMB & SQUARE WITH HEAD AND SILL, BE CAREFUL NOT TO 'CROWN UP' OR 'BOW DOWN' THE SILL OR HEAD. CONSTANTLY CHECK WIDTH AT THE MEETING RAILS OF SINGLE AND DOUBLE HUNGS (CENTER POINT ON CASEMENTS) TO AVOID A "BOWED OUT" INSTALLATION. WHEN USING FLASHING APPLY THE BOTTOM PIECE BEFORE INSTALLING THE WINDOW. (See Figure 1 below) FLASHING MUST BE RATED TO MEET ASTM 0-779, 24 HOUR WATER RESISTANCE TEST.
- 4. APPLY A CONTINUOUS 3/8" BEAD OF PREMIUM GRADE, COMPATIBLE EXTERIOR SEALANT TO THE INTERIOR (BACKSIDE) OF THE NAIL FIN NEAR THE OUTSIDE EDGE IN LINE WITH THE PRE-PUNCHED HOLES ON ALL SIDES PRIOR TO SETTING THE WINDOW INTO THE ROUGH OPENING. (See Figure 3 below)
- 5. PLACE 1/4" FLAT SHIMS ON THE ROUGH OPENING SILL PLATE UNDER THE BOTTOM CORNERS OF THE WINDOW (See Figure 4 below). THESE SHIMS SHOULD BE REMOVED WHEN INSTALLATION IS COMPLETE. DO NOT PLACE SHIMS OR BLOCKS UNDER THE SILL EXCEPT AT THE FRAME CORNERS. SET THE WINDOW ONTO THE SHIMS CENTERING THE WINDOW IN THE OPENING ALLOWING EQUAL SPACE ON EITHER SIDE. FOR WINDOWS WITH INTERMEDIATE JAMBS AND ALL BLIDER WINDOWS, CONTINUOUS SHIM OR HORIZONTAL SHIMS ARE RECOMMENDED UNDER EACH INTERMEDIATE JAMB AND MEETING RAIL TO ENSURE SILL IS LEVEL 1. THESE SILL SHIMS SHOULD REMAIN AFTER INSTALLATION IS COMPLETE. APPLY ADDITIONAL SHIMS AS NECESSARY TO MAINTAIN A LEVEL SILL THROUGHOUT INSTALLATION.
- 6. PLACE A TEMPORARY FASTENER IN THE SLOT PROVIDED IN THE NAIL FIN ON EACH TOP CORNER, CHECK LEVEL AND SQUARE OF THE WINDOW BY MEASURING THE DIAGONALS. OPEN BOTTOM SASH, CHECK THE "REVEAL" (SPACE) BETWEEN THE BOTTOM OF THE SASH AND THE WINDOW SILL. CLOSE AND RELOCK THE SASH, ADJUST IF NECESSARY, PLACE ADDITIONAL FASTENERS IN THE BOTTOM CORNERS CHECKING WINDOW AGAIN FOR LEVEL, PLUMB AND SQUARE.
- 7. SECURE THE WINDOW WITH FASTENERS THAT PENETRATE THE FRAMING BY A MINIMUM OF 1°, CARE SHOULD BE TAKEN TO INSTALL FASTENERS STRAIGHT, NOT ANGLED. KEEP THE SASH LOCKED UNTIL ALL SIDES ARE SECURE. PRIOR TO FASTENING THE SILL AND HEAD BE SURE THEY ARE STRAIGHT AND LEVEL. FASTENERS SHOULD BE APPLIED SECURELY INTO EVERY OTHER SLOT ON ALL SIDES, DO NOT DISTORT THE NAIL FIN WITH THE FASTENERS.
- 8. APPLY SEALANT OVER EXPOSED FASTENER HEADS, ANY UNUSED SLOTS AND THE OUTSIDE EDGE OF THE NAIL FIN WHERE IT COMES IN CONTACT WITH THE WRB/SHEATING.

  OR IF FLASHING IVINDOW TAPELIS BEING USED NOTE: SILL FLASHING SHOULD HAVE BEEN APPLIED PRIOR TO INSTALLING THE WINDOW. APPLY THE SIDE FLASHING ON TOP

  OF THE NAIL FIN, OVERLAPPING THE SILL FLASHING AND EXTENDING UP PAST THE TOP NAIL FIN APPROXIMATELY 2". THEN APPLY THE TOP FLASHING ALSO OVER THE NAIL

  FIN, OVERLAPPING THE SIDE PIECES AND EXTENDING PAST THE SIDE FLASHING BY APPROXIMATELY 1". LASTLY FOLD DOWN THE WRB FLAP OVER THE FLASHING, TAPE THE

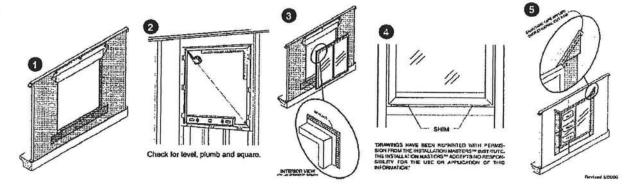
  DIAGONAL CUTS ABOVE EACH CORNER. (SEE FIGURE #S BELOW)
- 9. PLACE SHIMS AT THE MEETING RAIL/CHECK RAIL ON THE SIDE JAMBS TO PREVENT BOWING, THESE SHIMS SHOULD REMAIN AFTER INSTALLATION, CAUTION SHOULD BE TAKEN AS TO NOT OVER SHIM, CAUSING DEFLECTION OF THE FRAME AND HINDER SASH OPERATION, CHECK THE FRAME WIDTH AT TOP, MIDDLE AND SOTTOM, IF NOT THE SAME, SHIM ACCORDINGLY, UNLOCK AND OPERATE THE SASH(S), VISUALLY INSPECT ALL SIGHT LINES, ADJUST OR SHIM AS REQUIRED TO ASSURE CONSISTENT SASH REVEAL AND EASE OF OPERATION.
- 10. INSULATE BETWEEN THE WINDOW FRAME & ROUGH OPENING WITH FIBERGLASS INSULATION OR EQUAL. THE SPACE MAY BE EFFECTIVELY FILLED WITH MEASURED USE OF LOW EXPANSION FOAM BUT ONLY AFTER DETERMINING THAT FOAM WILL NOT EXERT PRESSURE AGAINST THE FRAME, WHICH CAN IMPAIR OPERATION. DISTORTION OF THE FRAME WILL AFFECT THE USER'S RIGHTS UNDER THE WARRANTY.
- 11. ALLOW A 1/4" GAP BETWEEN THE EXTERIOR CLADDING, SIDING, BRICK, STUCCO OR STONE AND THE WINDOW FRAME ON ALL SIDES (EXCEPT VINYL J CHANNEL).
  THE GAP (EXPANSION JOINT) SHOULD BE FILLED WITH CORRECT SIZE BACKER ROD, THEN SEALED WITH A HIGH GRADE EXTERIOR SEALANT AND WILL NEED TO BE MAINTAINED.

#### CAUTION

- . USE OF SOLVENTS OR ACIDS WILL DAMAGE COMPONENTS OF THIS PRODUCT AND WILL LIMIT RIGHTS UNDER THE WARRANTY
- VINYL WINDOWS HAVE PRE-PUNCHED SLOTS FOR INSTALLATION FASTENING IN ANY OTHER PORTION MAY PERMANENTLY DAMAGE UNIT WHICH WILL LIMIT RIGHTS UNDER THE WARRANTY.
- IT IS THE SOLE RESPONSIBILITY OF THE OWNER, ARCHITECT, AND/OR BUILDER TO SELECT CORRECT PRODUCTS TO BE IN COMPLIANCE WITH APPLICABLE LAWS, SITE
  REQUIREMENTS AND BUILDING CODES AND TO ENSURE THAT INSTALLATION IS IN COMPLIANCE WITH APPLICABLE LAWS, SITE REQUIREMENTS AND BUILDING CODES.
- . DO NOT STORE IN THE SUN OR LAY FLAT BEFORE OR DURING INSTALLATION.
- ANY PENETRATIONS (e.g. ALARM SENSORS) MADE THROUGH ANY PORTION OF ANY M.I., BETTERBILT OR CAPITOL PRODUCT MAY AFFECT RIGHTS UNDER THE MANUFACTURER'S WARRANTY.
- SOME LAWS AND BUILDING CODES REQUIRE SAFETY GLASS. THE ORDERING PARTY IS RESPONSIBLE TO SPECIFY SAFETY GLASS AND ENSURE COMPLIANCE WITH LOCAL LAWS AND BUILDING CODES.

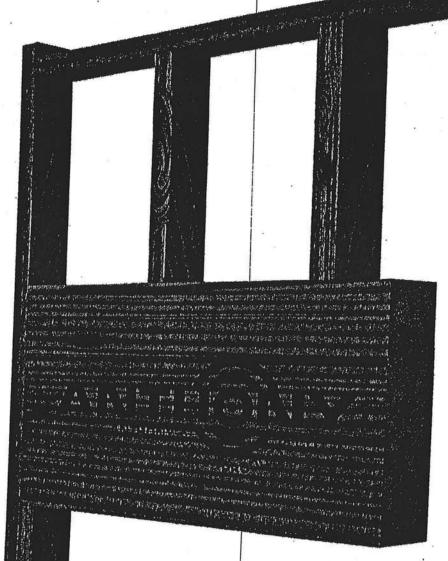
THESE INSTRUCTIONS ARE MINIMUM REQUIREMENTS ONLY, CHECK STATE AND LOCAL CODE RESTRICTIONS FOR ADDITIONAL COMPUSING ON INSTALLATION AND/OR FASTENING. IF UNIT MAS EXTERIOR TRIM
(BRICKMOULD/I CHANNEL, ETG.) THE UNIT MUST BE SEALED BEHIND THE NULL FIN, THE THIN IS PROVIDED FOR ABSTHETIC PURPOSES ONLY, AND NOT DESIGNED TO BE WATER TIGHT, INSTALLATION INTO MASONRY OR REPLACEMENT OPENINGS MUST BE SEALED TO THE OPENINGS USING AN APPROVED. PROPER METHOD, REFER TO AAMA 2400 AND/OR ASTA 2112 STANDARDS

These installation instructions are provided for information only; no representation and warranty is made that these instructions set for the information necessary for proper installation of the product. Given the variety of field conditions, primary responsibility for product installation reals with the installation. Do not proceed unless you have eddressed the factors necessary to achieve weather-light installation of a properly functioning product. MI Windows and Doors, Inc. assumes no liability for any personal injury or properly damage incurred in installation. These instructions, together with the product specifications and warranty set forth the entire liability of MI Windows and Doors, Inc. with repard to the product



Anthony Power Header®

2600F<sub>b</sub> - 1.9E



# ony Power Header® Advantages

♦ Less Experision than LVL or PSL

Lighter than Steel, LVL or PSL

- ♦ Pre-Cut Lengths
- ◆ Renewable Resource

- Cambered or Non-cambered
- 3-1/2" Width to Match Framing
- ◆ One Piece No Nail Laminating
- Lifetime Warranty

Garage Header Sizing Tables



## Anthony Power Header®

3-1/2" WIDTH GARAGE HEADER APPLICATION - SINGLE STORY HEADER SUPPORTING: 1/2 ROOF SPAN

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9-3/4 | 15-3/8

### NOTES:

 Table assumes a simple span header supporting a uniform load transferred from 1/2 the roof span plus a 2' soffit.

 Roof live and dead loads shown are applied vertically to the horizontal projection. No reductions in roof live loads or snow loads were considered. The header weight is accounted for in the table.

3. Deflection is limited to L/240 for live load and L/180 for total load.

4. Headers are assumed to have continuous lateral support along top edge.

Bearing length based on full width bearing is indicated as follows:
 Non-shaded sizes require two trimmers (3" bearing).
 Shaded sizes require three trimmers (4.5" bearing).
 Shaded & outlined sizes require four trimmers (6" bearing).

6. \*\* Applications where load carrying capacity of 16-3/4" depth has been exceeded. See AFP 30F<sub>b</sub> POWER BEAM® literature or AFP's WoodWorks - Sizer Software.



## Anthony Power Header®

### 3-1/2" WIDTH GARAGE HEADER PLF CAPACITY

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### NOTES:

- Values shown are the maximum uniform loads in pounds per lineal foot (PLF) that can be applied to the header. Header weight has
- Tables are based on simple span uniform load conditions using a design span equal to the center-to-center of bearing. Non-shaded areas are based on 3" of bearing at each support, shaded areas on 4.5" of bearing, and shaded & outlined areas on 6" of bearing at
- Headers are assumed to be loaded on the top edge with continuous lateral support along compression edge.
- When no live load is listed, total load controls.
- Deflection limits are listed within the PLF table heading.

## GARAGE HEADER SIZING USING PLF TABLES:

To size a garage header supporting roof only, determine the total load & live load in pounds per lineal foot (PLF). Check the appropriate PLF table for a header supporting roof loads only (125% Non-Snow vs. 115% Snow) and select a member with a total load and live load capacity which meets or exceeds the design load for the rough opening size. For a garage header supporting roof, wall, and floor framing, determine the total load and live load in pounds per lineal foot (PLF). Select a header size from the roof, wall, and floor table (100% load duration) which has a total load and live load capacity equal to or greater than the design load for the appropriate rough opening.

### ENGINEERED WOOD SECTION PROPERTIES AND LOAD CAPACITIES

ALLOWABLE DESIGN STRESSES (PSI):

FLEXURAL STRESS ( $F_b$ ) = 2600 COMPRESSION PERP. TO GRAIN ( $F_{c\perp}$ ) = 740 HORIZONTAL SHEAR ( $F_v$ ) = 225 MODULUS OF ELASTICITY (MOE) = 1.9 x 10<sup>6</sup>

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### **NOTES:**

- 1. Beam weights are based on 38 pcf.
- 2. Moment capacities are based on a span of 21 feet and must be modified for other spans.
- 3. Flexural Stress, F<sub>b</sub>, shall be modified by the Volume Factor, C<sub>v</sub>, as outlined in AITC 117 Design 1993 and the NDS for Wood Construction 1997.
- 4. Allowable design properties and load capacities are based on a load duration of 100 percent and dry use conditions.
- 5. The AITC NER 466 was used in calculating the above allowable design stresses for POWER HEADER®.

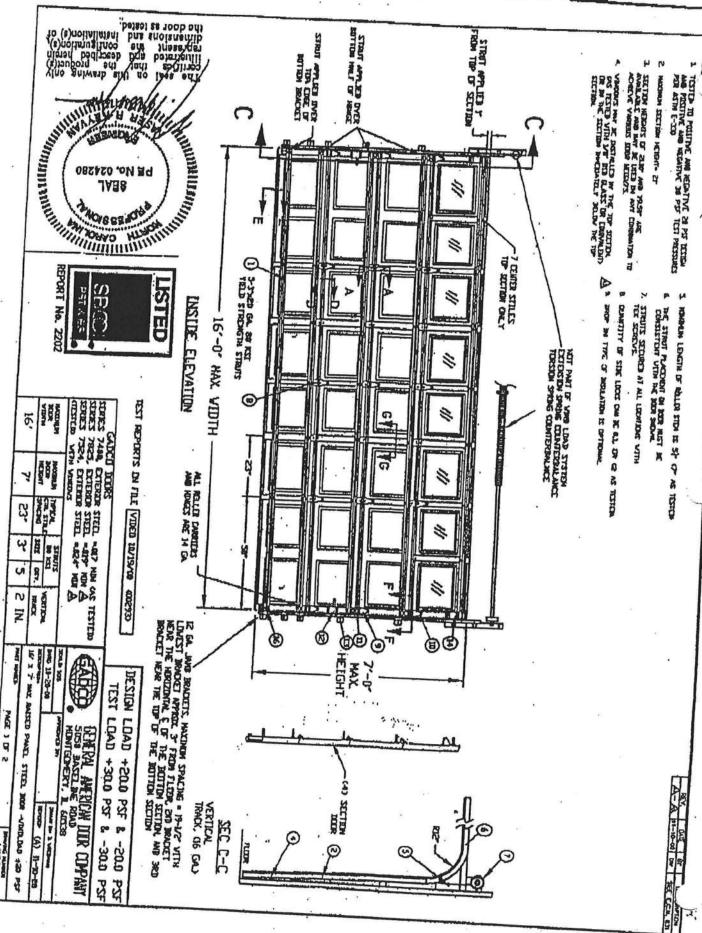
### **GARAGE HEADER COMPARISONS**

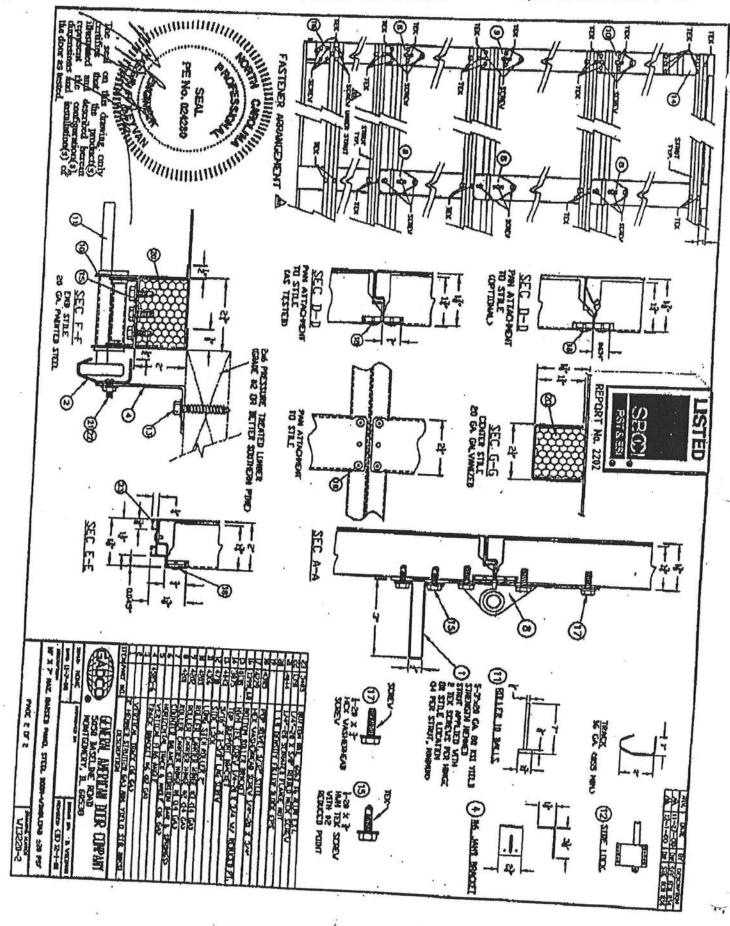
			var file over livery	apolegic (*)	
(A.)					Alban, San
810 / 540	3-1/2" x 8-3/8"	3-1/2" x 9-5/8"	3-1/2" x 9"	3-1/2" x 9-1/4"	3-1/2" x 11-1/4"*
990 / 720	3-1/2" x 9-3/4"	3-1/2" x 9-5/8"	3-1/2" x 10-1/2"	3-1/2" x 9-1/4"	3-1/2" x 11-1/4"
640 / 400	3-1/2" x 12-5/8"	. 3-1/2" x 13-3/4"	3-1/2" x 13-1/2"	3-1/2" x 14"	3-1/2" x 14"*
765 / 510	3-1/2" x 14"	3-1/2" x 15-1/8"	3-1/2" x 15"	3-1/2" x 14"	3-1/2" x 16"*
750 / 480	3-1/2" x 15-3/8"	3-1/2" x 16-1/2"	3-1/2" x 16-1/2"	3-1/2" x 16"	3-1/2" x 18"*
900 / 600	3-1/2" x 16-3/4"	3-1/2" x 17-7/8"	3-1/2" x 18"	3-1/2" x 16"	

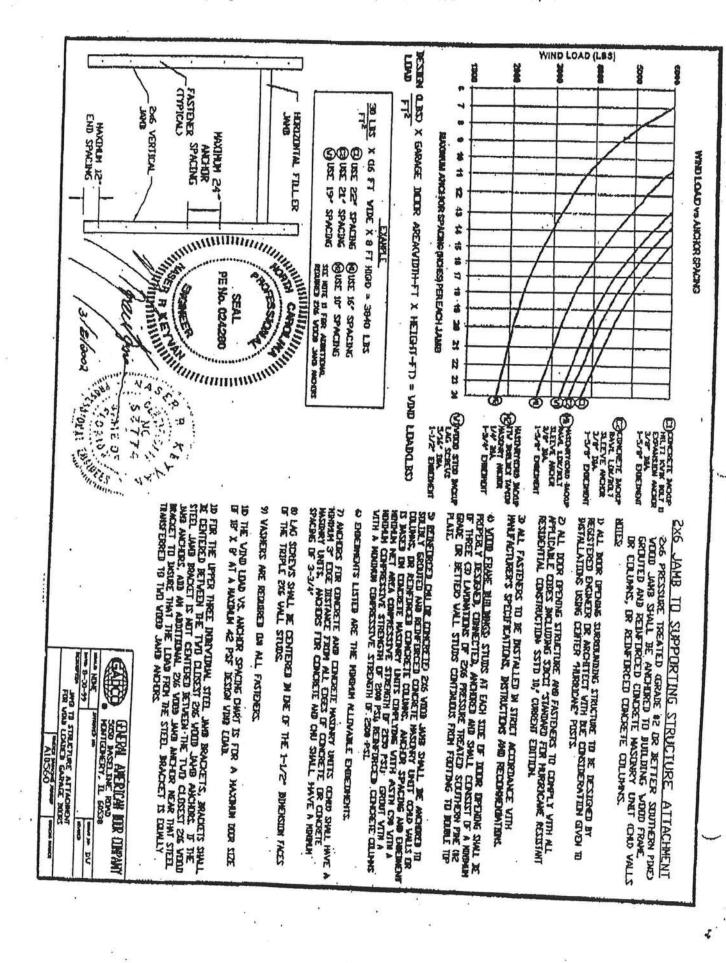
For more information on Power Header®, or other laminated structural products from Anthony Forest Products Company please call 1-800-221-2326 or FAX at 870-862-6502.

Power Header® is a trademark of
Anthony Forest Products Company
Post Office Box 1877 • El Dorado, Arkansas 71731
Internet address: http://www.anthonyforest.com
e-mail: info@anthonyforest.com
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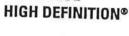








## PRESTIQUE®



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



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™

### Raised Profile

Product size ... 13%"x 38%" Exposure\_\_\_\_ ....5%" 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%"x 39%"
Exposure	5%"
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\*.

## Prestique High Definition

Product size	13¼"x 38¾"
Exposure	5%"
Pieces/Bundle	
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\*.

## **HIP AND RIDGE SHINGLES**

Seal-A-Ridge® w/FLX™ Size: 12"x 12"

Exposure: 6%" Pieces/Bundle: 45

Coverage: 4 Bundles = 100 linear feet

## Elk Starter Strip

52 Bundles/Pallet 18 Pallets/Truck 938 Bundles/Truck 19 Pieces/Bundle

1 Bundle = 120.33 linear feet

Available Colors: Antique Slate, Weatheredwood, Shakewood, 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

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

## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A

Address: City, State: Owner: Climate Zone:	Derek & Jackie Moore Lot: 4 & 5, Sub: 3 Rivers Estat Columbia County, FL 32024- Moore Residence North	e, Plat:	Builder: Permitting Office: Permit Number: Jurisdiction Number:	
<ul><li>a. U-factor:</li></ul>	multi-family single family sooms ase? Nor area (ft²) area: (Label reqd. by 13-104.4.5 if not default; Description Area puble DEFAULT) Ta. (Dble Default) 343.2 ft² at DEFAULT)  Edge Insulation  R=5.0, 203.0(p)  R=30.0, 2500.0 ft	1	12. Cooling systems a. Central Unit b. N/A c. N/A  13. Heating systems a. Electric Heat Pump b. N/A c. N/A  14. Hot water systems a. Electric Resistance 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)	Cap: 44.0 kBtu/hr SEER: 13.00
Glas	33/1 1001 Alea. U. 13		nts: 22365 nts: 27593 PASS	

Code. PREPARED BY: DATE: 6.7.0 I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: DATE:

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:		

## **SUMMER CALCULATIONS**

## Residential Whole Building Performance Method A - Details

BASE	AS-	AS-BUILT							
GLASS TYPES .18 X Conditioned X BSPM = Points Floor Area		Overhang rnt Len	Hgt Area	a X S	вем х	SOF	= Points		
.18 2220.0 18.59 7429.0	1.Double, Clear	W 1.5	9.0	40.0	38.52	0.97	1495.0		
	2.Double, Clear	W 6.5		06.7	38.52	0.61	2518.0		
l .	3.Double, Clear	NW 13.7	9.0	20.0	25.97	0.57	298.0		
	4.Double, Clear	N 1.5	9.0	6.0	19.20	0.98	112.0		
	5.Double, Clear	N 1.5	9.0	30.0	19.20	0.98	561.0		
	6.Double, Clear	E 1.5	9.0	30.0	42.06	0.97	1223.0		
	7.Double, Clear	E 1.5		12.0	42.06	0.97	489.0		
	8.Double, Clear	E 1.5	9.0	16.0	42.06	0.97	652.0		
	9.Double, Clear	E 1.5	9.0	40.0	42.06	0.97	1631.0		
-	10.Double, Clear	S 1.5		13.5	35.87	0.94	457.0		
	11.Double, Clear	S 1.5	9.0	9.0	35.87	0.94	304.0		
	12.Double, Clear	S 1.5		20.0	35.87	0.94	677.0		
	An Duilé Takalı	10000 12900000							
	As-Built Total:		343	.2			10417.0		
WALL TYPES Area X BSPM = Points	Туре	R-	Value A	Area	X SPN	<b>/</b> =	Points		
Adjacent         0.0         0.00         0.0           Exterior         1474.8         1.70         2507.2	1. Frame, Wood, Exterior		19.0 1474	.8	0.90		1327.3		
Base Total: 1474.8 2507.2	As-Built Total:		1474.	.8			1327.3		
DOOR TYPES Area X BSPM = Points	Туре		A	rea )	X SPN	1 =	Points		
Adjacent 0.0 0.00 0.0				-11					
Exterior 0.0 0.00 0.0									
Base Total: 0.0 0.0	As-Built Total:		0.	n					
			0.				0.0		
CEILING TYPES Area X BSPM = Points	Туре	R-Valu	e Area	X SP	M X SC	:M =	Points		
Under Attic 2220.0 1.73 3840.6	1. Under Attic	3	30.0 2500.	0 1.73	3 X 1.00		4325.0		
Base Total: 2220.0 3840.6	As-Built Total:		2500.	n			4325.0		
FLOOR TYPES Area X BSPM = Points	Туре	R-\			K SPM	=	Points		
Slab 203.0(p) -37.0 -7511.0	Slab-On-Grade Edge Insulation	G A- 11/2-2	200						
Raised 0.0 0.00 0.0	Glab-On-Grade Edge Insulation	II.	5.0 203.0(	D	-36.20		-7348.6		
Base Total: -7511.0	As-Built Total:		203.0	0			-7348.6		

## **SUMMER CALCULATIONS**

## Residential Whole Building Performance Method A - Details

	BASE	AS-BUILT							
INFILTRATION	Area X BSPM = Poir	ts Area X SPM = Points							
	2220.0 10.21 2266	.2 2220.0 10.21 22666.2							
Summer Bas	se Points: 28932.0	Summer As-Built Points: 31386.9							
Total Summer Points	X System = Cooling 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)							
28932.0	0.3250 9402	(sys 1: Central Unit 44000btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 31387							

## WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

	BASE	AS-BUILT									
GLASS TYPES .18 X Conditio Floor Ar		WPM = P	oints	Type/SC		rhang Len	Hgt	Area X	WPM X	WOF	= Points
.18 2220	.0	20.17	8060.0	1.Double, Clear	W	1.5	9.0	40.0	20.73	1.01	835.0
				2.Double, Clear	W	6.5	9.0	106.7	20.73	1.13	2499.0
				3.Double, Clear	NW	13.7	9.0	20.0	24.30	1.03	500.0
-				4.Double, Clear	N	1.5	9.0	6.0	24.58	1.00	147.0
10				5.Double, Clear	N	1.5	9.0	30.0	24.58	1.00	737.0
1				6.Double, Clear	Е	1.5	9.0	30.0	18.79	1.02	572.0
				7.Double, Clear	E	1.5	9.0	12.0	18.79	1.02	229.0
				8.Double, Clear	Е	1.5	9.0	16.0	18.79	1.02	305.0
				9.Double, Clear	Е	1.5	9.0	40.0	18.79	1.02	763.0
				10.Double, Clear	S	1.5	9.0	13.5	13.30	1.02	183.0
				11.Double, Clear	S	1.5	9.0	9.0	13.30	1.02	122.0
				12.Double, Clear	S	1.5	9.0	20.0	13.30	1.02	272.0
				As-Built Total:				343.2			7164.0
WALL TYPES	Area X	BWPM =	Points	Туре		R-	Value	Area	X WPM	1 =	Points
Adjacent Exterior	0.0 1474.8	0.00 3.70	0.0 5456.8	1. Frame, Wood, Exterior			19.0	1474.8	2.20		3244.6
Base Total:	1474.8		5456.8	As-Built Total:				1474.8			3244.6
DOOR TYPES	Area X	BWPM =	Points	Туре				Area	X WPM	=	Points
Adjacent Exterior	0.0 0.0	0.00 0.00	0.0								
Base Total:	0.0		0.0	As-Built Total:				0.0	3		0.0
CEILING TYPES	Area X	BWPM =	Points	Туре	R-\	√alue	Are	a X W	PM X WC	M =	Points
Under Attic	2220.0	2.05	4551.0	1. Under Attic		3	0.0	2500.0 2	.05 X 1.00		5125.0
Base Total:	2220.0		4551.0	As-Built Total:			10	2500.0			5125.0
FLOOR TYPES	Area X	BWPM =	Points	Туре		R-V	/alue		X WPM	=	Points
Slab 2 Raised	03.0(p) 0.0	8.9 0.00	1806.7 0.0	1. Slab-On-Grade Edge Insul	lation		5.0 2	03.0(p	7.60		1542.8
Base Total:			1806.7	As-Built Total:				203.0			1542.8

## WINTER CALCULATIONS

## Residential Whole Building Performance Method A - Details

BASE		AS-BUILT							
INFILTRATION Area X BWPM	= Points	Area X WPM = Points							
2220.0 -0.59	-1309.8	2220.0 -0.59 -1309.8							
Winter Base Points:	18564.7	Winter As-Built Points: 15766.6							
	eating Points	Total X Cap X Duct X System X Credit = Heating Component Ratio Multiplier Multiplier Multiplier Points (System - Points) (DM x DSM x AHU)							
18564.7 0.5540	10284.8	(sys 1: Electric Heat Pump 44000 btuh ,EFF(7.7) Ducts:Unc(S),Unc(R),Int(AH),R6.0         15766.6       1.000       (1.069 x 1.000 x 0.93) 0.443       0.950       6594.5         15766.6       1.00       0.994       0.443       0.950       6594.5							

## **WATER HEATING & CODE COMPLIANCE STATUS**

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 4 & 5, Sub: 3 Rivers Estate, Plat: , Columbia County, FL, 32024PERMIT #:

BASE					AS-BUILT								
WATER HEA Number of Bedrooms	TING X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier	X Credit Multiplie		Total
3		2635.00		7905.0	80.0	0.90	3		1.00	2693.56	1.00	8	8080.7
					As-Built To	otal:						8	8080.7

CODE COMPLIANCE STATUS													
	BASE					AS-BUILT							
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
9403		10285		7905		27593	7690		6595		8081		22365

**PASS** 



## **Code Compliance Checklist**

## Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 4 & 5, Sub: 3 Rivers Estate, Plat: , Columbia County, FL, 32024PERMIT #:

### 6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS SECTION		REQUIREMENTS FOR EACH PRACTICE			
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 wa 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 extending 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			
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked cir breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.			
Swimming Pools & Spas 612.1		Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.			
Shower heads 612.1		Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.			
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.			
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	1		
Insulation	604.1, 602.1	Ceillings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.			

Tested sealed ducts must be certified in this house.

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

### ESTIMATED ENERGY PERFORMANCE SCORE\* = 88.0

The higher the score, the more efficient the home.

Moore Residence, Lot: 4 & 5, Sub: 3 Rivers Estate, Plat: , Columbia County, FL, 32024-

8	124				of real forest and odding, it	-, 02021	
1.	New construction or existing	New			Cooling systems		
2.	Single family or multi-family	Single family	_	a.	Central Unit	Cap: 44.0 kBtu/h	
3.	Number of units, if multi-family	1	_			SEER: 13.00	
4.	Number of Bedrooms	3		b.	N/A		_
5.	Is this a worst case?	No	-				_
6.	Conditioned floor area (ft²)	2220 ft²	_	c.	N/A		_
7.	Glass type 1 and area: (Label reqd. I			TANK MINI			_
a.	U-factor:	Description Area			Heating systems		
	(or Single or Double DEFAULT) SHGC:	/a. (Dble Default) 343.2 ft <sup>2</sup>	_	a.	Electric Heat Pump	Cap: 44.0 kBtu/hr	
D.		<b>771</b> 20 0020 00000000000000000			****	HSPF: 7.70	-
0	(or Clear or Tint DEFAULT) Floor types	7b. (Clear) 343.2 ft <sup>2</sup>	-	b.	N/A		-
	Slab-On-Grade Edge Insulation	D 50 202 0/ ) 0			****		_
	N/A	R=5.0, 203.0(p) ft	_	C.	N/A	(4)	_
	N/A		-				_
	Wall types	*	_		Hot water systems	627 NO N 783	
	Frame, Wood, Exterior	D-10 0 1474 0 02		a.	Electric Resistance	Cap: 80.0 gallons	
	N/A	R=19.0, 1474.8 ft <sup>2</sup>	-	12	N7/1	EF: 0.90	_
	N/A		_	b.	N/A		_
	N/A		_	9.	Constitution Vis		_
	N/A		-		Conservation credits		_
	Ceiling types		-		(HR-Heat recovery, Solar		
	Under Attic	R=30.0, 2500.0 ft <sup>2</sup>		15	DHP-Dedicated heat pump)		
	N/A	K-30.0, 2300.0 II	_		HVAC credits	PT,	_
	N/A		_		(CF-Ceiling fan, CV-Cross ventilation	io.	
	Ducts(Leak Free)		_		HF-Whole house fan,		
	Sup: Unc. Ret: Unc. AH: Interior	Sup. R=6.0, 50.0 ft			PT-Programmable Thermostat,		
	N/A	5up. 10-0.0, 50.0 ft	-		MZ-C-Multizone cooling, MZ-H-Multizone heating)		
			_		WZ-ri-wuitizone neating)		
I cer	tify that this home has complied	d with the Florida Energy	/ Efficie	ncv	Code For Building		
Con	struction through the above ene	rgy saving features which	will be	ins	talled (or exceeded)	OF THE STATE	
in th	is home before final inspection	Otherwise, a new EPL I	Display (	Care	will be completed	3	M
base	d on installed Code compliant f	features.	o roping	Cur	. win de completed	12	18
	der Signature:		Date				P
	-		<i>Duto.</i> _			10	Z
Addı	ress of New Home:		City/FL	. Zij	o:	COD WE TRUST	
*NO	TE: The home's estimated ener	gy performance score is	only as	nil al	ole through the FLA/RES compute		
This	is not a Building Free Ratin	a Hanna some in 90	omy ava	mul	TO THE FLAKES COMPUTE	er program.	

\*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<sup>™</sup>designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLRCPB v4.5.2)

## **Energy Code Compliance**

## **Duct System Performance Report**

Project Name:

Derek & Jackie Moore

Address:

City, State:

Columbia County, FL 32024-

Owner:

Moore Residence

Climate Zone: North

Builder:

Permitting Office: Permit Number:

Jurisdiction Number:

### **Total Duct System Leakage Test Results**

CFM	CFM25 Total Duct Leakage Test Values							
Line	System	Duct Leakage Total	Duct Leakage to Outdoors					
1	System1	cfm25(tot)	cfm25(out)					
2	System2	cfm25(tot)	cfm25(out)					
3	System3	cfm25(tot)	cfm25(out)					
4	System4	cfm25(tot)	cfm25(out)					
5	Total House Duct System Leakage	Sum lines 1-4  Divide by  (Total Conditioned Floor Area)  =(Q <sub>n</sub> ,tot)  Receive credit if Q <sub>n</sub> ,tot≤ 0.03	Sum lines 1-4					

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: \_\_\_\_\_ Printed Name: \_\_\_\_

Florida Rater Certification #:

DATE: \_\_\_\_\_

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: http://energygauge.com/search.htp



BUILDING OFFICIAL: \_\_\_\_\_