

DATE09/26/2012

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT000030489

APPLICANTCLINT BOONE

PHONE623-1888

ADDRESSPO BOX 7044

LAKE CITYFL32056

OWNERMICHEAL RADEL

PHONE397-1311

ADDRESS487NW STEPHEN FOSTER DR

WHITE SPRINGSFL32096

CONTRACTORMANUEL BRANNON

PHONE386-590-3289

LOCATION OF PROPERTY

41 N, L SUWANNEE VALLEY RD, R WHITE SPRINGS RD, R STEPHEN FOSTER DR, GO .39 MILES ON LEFT

TYPE DEVELOPMENTMH, UTILITY

ESTIMATED COST OF CONSTRUCTION0.00

HEATED FLOOR AREATOTAL AREAHEIGHTSTORIES

FOUNDATIONWALLSROOF PITCHFLOOR

LAND USE & ZONINGESA-2

MAX. HEIGHT35

Minimum Set Back Requirments:STREET-FRONT30.00REAR25.00SIDE25.00

NO. EX.D.U.0FLOOD ZONEAE FDEVELOPMENT PERMIT NO.12-005

PARCEL ID18-2S-16-01650-003SUBDIVISIONSTEPHEN FOSTER FOREST

LOT3BLOCKPHASEUNITTOTAL ACRES

IH1025396

Culvert Permit No.Culvert WaiverContractor's License NumberApplicant/Owner/Contractor

EXISTING12-0285BKTCTCY

Driveway ConnectionSeptic Tank NumberLU & Zoning checked byApproved for IssuanceNew Resident

COMMENTS: MINIMUM FLOOR ELEVATION @ 86.9', NEED ELEVATION CERTIFICATE FOR BOTTOM OF FINISHED FLOOR AND EQUIPMENT, IN THE FLOODWAY

V0287 ON HOME SQ FT APPROVEDCheck # or Cash32505

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Powerdate/app. by

Foundationdate/app. by

Monolithicdate/app. by

Under slab rough-in plumbingdate/app. by

Slabdate/app. by

Sheathing/Nailingdate/app. by

Framingdate/app. by

Insulationdate/app. by

Rough-in plumbing above slab and below wood floordate/app. by

Electrical rough-indate/app. by

Heat & Air Ductdate/app. by

Peri. beam (Lintel)date/app. by

Pooldate/app. by

Permanent powerdate/app. by

C.O. Finaldate/app. by

Culvertdate/app. by

Pump poledate/app. by

Utility Poledate/app. by

M/H tie downs, blocking, electricity and plumbingdate/app. by

Reconnectiondate/app. by

RVdate/app. by

Re-roofdate/app. by

BUILDING PERMIT FEE \$0.00

CERTIFICATION FEE \$0.00

SURCHARGE FEE \$0.00

MISC. FEES \$250.00

ZONING CERT. FEE \$50.00

FIRE FEE \$6.42

WASTE FEE \$16.75

FLOOD DEVELOPMENT FEE \$50.00

FLOOD ZONE FEE \$25.00

CULVERT FEE \$

TOTAL FEE398.17

INSPECTORS OFFICE

CLERKS OFFICE

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

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

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

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

# Warranty Deed

Individual to Individual

Inst:2004006525 Date:03/23/2004 Time:15:02  
Doc Stamp-Deed : 84.00  
MLK DC,P.Dewitt Cason,Columbia County B:1010 P:1246

THIS WARRANTY DEED made the 22nd day of March, 2004 by

Roger Romine  
hereinafter called the grantor, to

Michael A. Radel

whose post office address is: ~~XXXXXX, Box 1890, White Springs, FL 32096~~ 447 NW Stephen Foster Dr.,  
hereinafter called the grantee: White Springs, FL 32096

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporation)

Witnesseth: That the grantor, for and in consideration of the sum of \$10.00 and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys, and confirms unto the grantee, all that certain land situate in COLUMBIA County, FLORIDA, viz: Parcel ID# R01650-003

Lot 3, Stephen Foster Forest Subdivision, according to the plat thereof recorded in Plat Book 3, Page 83, Public Records of Columbia County, Florida.

The above described property is not the homestead property of the grantor herein who in fact resides in Wellborn, Florida.

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

TO HAVE AND TO HOLD, the same in fee simple forever.

AND the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2003.

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

Signed, sealed and delivered in our presence:

Rhonda B. Green  
Witness

Roger Romine  
Roger Romine

Cynthia Jernio  
Witness

STATE OF FLORIDA  
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 22nd day of March, 2004 by Roger Romine personally known to me or, if not personally known to me, who produced Driver's License No. R550-724-52-345 for indentionification and who did not take an oath.

(SEAL)

Rhonda B. Green  
Notary Public  
RHONDA B. GREEN  
MY COMMISSION # DD 091807  
EXPIRES: February 12, 2006  
1-800-3-NOTARY FL Notary Service & Bonding, Inc.



PERMIT APPLICATION / MANUFACTURED HOME INSTALLATION APPLICATION

**For Office Use Only** (Revised 1-11) Zoning Official BLK 20 SEPT 2012 Building Official 7.6 9-5-12

AP# 1208-82 Date Received 8/30/12 By LM Permit # 30489

Flood Zone AE Development Permit YES Zoning ESA-2 Land Use Plan Map Category ESA

Comments V 0 287 minimum Sp. ft. Elevation certificate for bottom of finish floor  
DP#12-005 Bottom of and equipment

FEMA Map# 0359C Elevation 85.9' Finished Floor 86.9' River Suwannee In Floodway YES

☒ Site Plan with Setbacks Shown ☐ EH # 12-0285 ☐ EH Release ☐ Well letter ☒ Existing well

☒ Recorded Deed or Affidavit from land owner ☒ Installer Authorization ☒ State Rd Access ☒ 911 Sheet

☐ Parent Parcel # ☐ STUP-MH ☒ F W Comp. letter ☒ App Fee Pd ☒ F Form

IMPACT FEES: EMS ☐ Fire ☐ Corr ☒ Out County ☒ In County

Road/Code ☐ School ☐ = TOTAL ☐ Suspended March 2009 ☒ Ellisville Water Sys

Property ID # 18-25-14-011050-003 Subdivision Stephen Foster Forest Lot 3 Engineering piers (One Set only)

▪ New Mobile Home ☒ Used Mobile Home ☐ MH Size 11'10" x 32' Year 2012

▪ Applicant Clin + Boone Phone # 623-1558

▪ Address PO Box 7044, Lake City FL 32056

▪ Name of Property Owner Michael Radel Phone# 386-387-1311

▪ 911 Address 582 Stephen Foster Dr White Springs FL 32096

▪ Circle the correct power company - FL Power & Light - Clay Electric  
(Circle One) - Suwannee Valley Electric - Progress Energy

▪ Name of Owner of Mobile Home Michael Radel Phone # 386-387-1311

Address 487 NW Stephen Foster Dr. White Springs FL 32096

▪ Relationship to Property Owner Same

▪ Current Number of Dwellings on Property 0

▪ Lot Size 85'86" x 168.80 Total Acreage

▪ Do you : Have Existing Drive or Private Drive or need Culvert Permit or Culvert Waiver (Circle one)  
(Currently using) (Blue Road Sign) (Putting in a Culvert) (Not existing but do not need a Culvert)

▪ Is this Mobile Home Replacing an Existing Mobile Home NO

▪ Driving Directions to the Property US 41 North to CR 136 - turn left on CR 136 go approx  
1/4 mile to White Springs Ad. turn left go approx 1/4 mile to Stephen Foster Dr.  
turn left go approx 1/4 mile to lot on left

▪ Name of Licensed Dealer/Installer Manuel Brannan Phone # 386-590-3289

▪ Installers Address 5107 CR 252 Welborn FL 32094

▪ License Number 1025396 Installation Decal # 10310

Spoke with Clint 9-24-12



# COLUMBIA COUNTY PERMIT WORKSHEET

page 1 of 2

These worksheets must be completed and signed by the Installer.  
Submit the originals with the packet.

Installer \_\_\_\_\_ License # \_\_\_\_\_

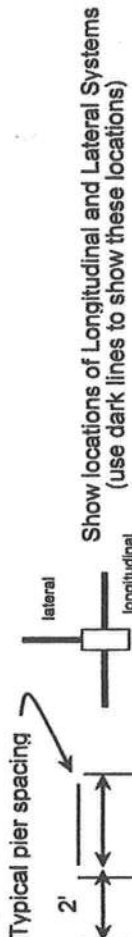
911 Address where home is being installed: 489 NW Stephen Foster Dr

Manufacturer: Champion Length x width: 11'0" x 32'

NOTE: if home is a single wide fill out one half of the blocking plan  
if home is a triple or quad wide sketch in remainder of home

I understand Lateral Arm Systems cannot be used on any home (new or used)  
where the sidewall ties exceed 5 ft 4 in.

Installer's initials \_\_\_\_\_



Show locations of Longitudinal and Lateral Systems  
(use dark lines to show these locations)

marriage wall piers within 2' of end of home per Rule 15C

New Home ☒ Used Home ☐

Home installed to the Manufacturer's Installation Manual ☐

Home is installed in accordance with Rule 15-C ☐

Single wide ☒ Wind Zone II ☒ Wind Zone III ☐

Double wide ☐ Installation Decal # \_\_\_\_\_

Triple/Quad ☐ Serial # \_\_\_\_\_

## PIER SPACING TABLE FOR USED HOMES

Load bearing capacity	Footer size (sq in)	16" x 16" (256)	18 1/2" x 18 1/2" (342)	20" x 20" (400)	22" x 22" (484)*	24" x 24" (576)*	26" x 26" (676)
1000 psf	3'	3'	4'	5'	6'	7'	8'
1500 psf	4' 6"	4' 6"	6'	7'	8'	8'	8'
2000 psf	6'	6'	8'	8'	8'	8'	8'
2500 psf	7' 6"	7' 6"	8'	8'	8'	8'	8'
3000 psf	8'	8'	8'	8'	8'	8'	8'
3500 psf	8'	8'	8'	8'	8'	8'	8'

\* Interpolated from Rule 15C-1 pier spacing table.

## PIER PAD SIZES

I-beam pier pad size \_\_\_\_\_

Perimeter pier pad size \_\_\_\_\_

Other pier pad sizes (required by the mfg.) \_\_\_\_\_

Draw the approximate locations of marriage wall openings 4 foot or greater. Use this symbol to show the piers.

List all marriage wall openings greater than 4 foot and their pier pad sizes below.

Opening \_\_\_\_\_ Pier pad size \_\_\_\_\_

4 ft \_\_\_\_\_ 5 ft \_\_\_\_\_

## FRAME TIES

within 2' of end of home spaced at 5' 4" oc

## OTHER TIES

Number \_\_\_\_\_

Sidewall \_\_\_\_\_  
Longitudinal \_\_\_\_\_  
Marriage wall \_\_\_\_\_  
Shearwall \_\_\_\_\_

## TIEDOWN COMPONENTS

Longitudinal Stabilizing Device (LSD)  
Manufacturer \_\_\_\_\_  
Longitudinal Stabilizing Device w/ Lateral Arms  
Manufacturer \_\_\_\_\_



**POCKET PENETROMETER TEST**

The pocket penetrometer tests are rounded down to \_\_\_\_\_ psf or check here to declare 1000 lb. soil \_\_\_\_\_ without testing.

X \_\_\_\_\_ X \_\_\_\_\_ X \_\_\_\_\_

**POCKET PENETROMETER TESTING METHOD**

1. Test the perimeter of the home at 6 locations.
2. Take the reading at the depth of the footer.
3. Using 500 lb. increments, take the lowest reading and round down to that increment.

X \_\_\_\_\_ X \_\_\_\_\_ X \_\_\_\_\_

**TORQUE PROBE TEST**

The results of the torque probe test is \_\_\_\_\_ inch pounds or check here if you are declaring 5' anchors without testing \_\_\_\_\_. A test showing 275 inch pounds or less will require 5 foot anchors.

**Note:** A state approved lateral arm system is being used and 4 ft. anchors are allowed at the sidewall locations. I understand 5 ft anchors are required at all centerline tie points where the torque test reading is 275 or less and where the mobile home manufacturer may requires anchors with 4000 lb holding capacity.

Installer's initials \_\_\_\_\_

**ALL TESTS MUST BE PERFORMED BY A LICENSED INSTALLER**

Installer Name \_\_\_\_\_

Date Tested \_\_\_\_\_

**Electrical**

Connect electrical conductors between multi-wide units, but not to the main power source. This includes the bonding wire between multi-wide units. Pg. \_\_\_\_\_

**Plumbing**

Connect all sewer drains to an existing sewer tap or septic tank. Pg. \_\_\_\_\_

Connect all potable water supply piping to an existing water meter, water tap, or other independent water supply systems. Pg. \_\_\_\_\_

**Site Preparation**

Debris and organic material removed \_\_\_\_\_ Swale \_\_\_\_\_ Pad \_\_\_\_\_ Other \_\_\_\_\_

**Fastening multi wide units**

Floor: Type Fastener: \_\_\_\_\_ Length: \_\_\_\_\_ Spacing: \_\_\_\_\_  
 Walls: Type Fastener: \_\_\_\_\_ Length: \_\_\_\_\_ Spacing: \_\_\_\_\_  
 Roof: Type Fastener: \_\_\_\_\_ Length: \_\_\_\_\_ Spacing: \_\_\_\_\_  
 For used homes a min. 30 gauge, 8" wide, galvanized metal strip will be centered over the peak of the roof and fastened with galv. roofing nails at 2" on center on both sides of the centerline.

**Gasket (weatherproofing requirement)**

I understand a properly installed gasket is a requirement of all new and used homes and that condensation, mold, mildew and buckled marriage walls are a result of a poorly installed or no gasket being installed. I understand a strip of tape will not serve as a gasket.

Installer's initials \_\_\_\_\_

Type gasket \_\_\_\_\_ Installed: \_\_\_\_\_  
 Pg. \_\_\_\_\_ Between Floors Yes \_\_\_\_\_  
 Between Walls Yes \_\_\_\_\_  
 Bottom of ridgebeam Yes \_\_\_\_\_

**Weatherproofing**

The bottomboard will be repaired and/or taped. Yes \_\_\_\_\_ Pg. \_\_\_\_\_  
 Siding on units is installed to manufacturer's specifications. Yes \_\_\_\_\_  
 Fireplace chimney installed so as not to allow intrusion of rain water. Yes \_\_\_\_\_

**Miscellaneous**

Skirting to be installed. Yes \_\_\_\_\_ No \_\_\_\_\_  
 Dryer vent installed outside of skirting. Yes \_\_\_\_\_ N/A \_\_\_\_\_  
 Range downflow vent installed outside of skirting. Yes \_\_\_\_\_ N/A \_\_\_\_\_  
 Drain lines supported at 4 foot intervals. Yes \_\_\_\_\_  
 Electrical crossovers protected. Yes \_\_\_\_\_  
 Other: \_\_\_\_\_

**Installer verifies all information given with this permit worksheet is accurate and true based on the**

Installer Signature \_\_\_\_\_ Date \_\_\_\_\_

**Development Permit**  
**F 023- 12-005**

FLOOD ZONE AE F BY BK 2-4-2009 FIRM COMMUNITY # 120070 - PANEL # 0359C  
FIRM 100 YEAR ELEVATION 85.9' PLAN INCLUDED YES or NO  
REQUIRED LOWEST HABITABLE FLOOR ELEVATION 86.9'  
IN THE REGULATORY FLOODWAY YES or NO RIVER Suwannee  
SURVEYOR / ENGINEER NAME David Still LICENSE NUMBER 42088

DATE THE FINISHED FLOOR ELEVATION CERTIFICATE WAS PROVIDED

COMMENTS \_\_\_\_\_





DEPARTMENT OF HEALTH  
ONSITE SEWAGE TREATMENT AND DISPOSAL  
SYSTEM  
APPLICATION FOR CONSTRUCTION PERMIT

DATE PAID: AP 1073433  
FEE PAID: 5/30/12  
RECEIPT #: 425.00  
12-PID-1874143

APPLICATION FOR:

☒ New System ☐ Existing System ☐ Holding Tank ☐ Innovative  
☐ Repair ☐ Abandonment ☐ Temporary ☐

APPLICANT: Michael Badel / Robert Townsend cell 386-234-0461

AGENT: Robert Townsend TELEPHONE: 384-397-1311

MAILING ADDRESS: 447 NW Stephen Foster Dr. White Springs FL 32096

TO BE COMPLETED BY APPLICANT OR APPLICANT'S AUTHORIZED AGENT. SYSTEMS MUST BE CONSTRUCTED BY A PERSON LICENSED PURSUANT TO 489.105(3)(m) OR 489.552, FLORIDA STATUTES. IT IS THE APPLICANT'S RESPONSIBILITY TO PROVIDE DOCUMENTATION OF THE DATE THE LOT WAS CREATED OR PLATTED (MM/DD/YY) IF REQUESTING CONSIDERATION OF STATUTORY GRANDFATHER PROVISIONS.

PROPERTY INFORMATION

LOT: 243 BLOCK: 18-25-16-01450-02 SUBDIVISION: Stephen Foster Forest PLATTED: 5/16/1968

PROPERTY ID #: 18-25-16-01450-023 ZONING: A9-3 I/M OR EQUIVALENT: ☐ Y ☒ N

PROPERTY SIZE: 1/2 acre ACRES WATER SUPPLY: ☒ PRIVATE PUBLIC ☐ ☐ ≤2000GPD ☐ >2000GPD

IS SEWER AVAILABLE AS PER 381.0065, FS? ☐ Y ☒ N DISTANCE TO SEWER:        FT

PROPERTY ADDRESS: 478 NW Stephen Foster Dr. / 487 Stephen Foster Dr.

DIRECTIONS TO PROPERTY: Sumner Valley Rd to White Springs Rd - turn right on North. White Springs Rd to Stephen Foster Dr. Turn right on Stephen Foster Dr. Approximately 1/4 mile lots on left.

BUILDING INFORMATION ☒ RESIDENTIAL ☐ COMMERCIAL

Unit No	Type of Establishment	No. of Bedrooms	Building Area Sqft	Commercial/Institutional System Design Table 1, Chapter 64E-6, FAC
---------	-----------------------	-----------------	--------------------	--

1	<u>Residential</u>	<u>1</u>	<u>379 sq ft</u>	
2	<u>Residential</u>	<u>1</u>	<u>329 sq ft</u>	
3				
4				

☐ Floor/Equipment Drains ☐ Other (Specify)       

SIGNATURE: Robert Townsend DATE: 5/30/12

*Kor*

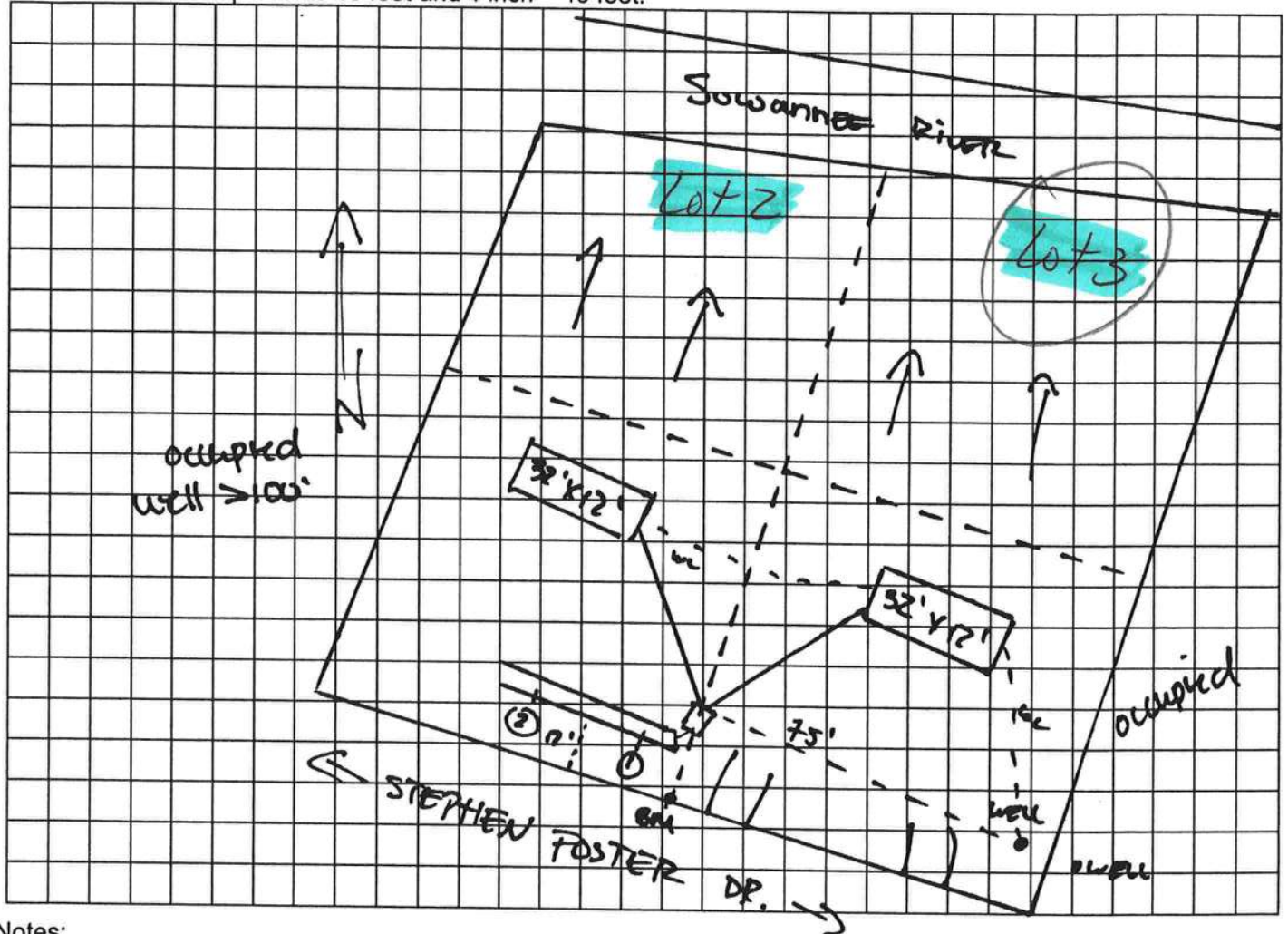
*5/30/12*

STATE OF FLORIDA  
DEPARTMENT OF HEALTH  
APPLICATION FOR CONSTRUCTION PERMIT

Permit Application Number 12-0285

----- PART II - SITEPLAN -----

Scale: Each block represents 10 feet and 1 inch = 40 feet.



Notes: \_\_\_\_\_

Site Plan submitted by: Robert Tanssard

owner

Plan Approved ☒ Not Approved \_\_\_\_\_

Date 10/19/12

By: [Signature] Columbia

County Health Department

**ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT**

SF



# 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: 5/2/2012 DATE ISSUED: 5/24/2012

### ENHANCED 9-1-1 ADDRESS:

487 NW STEPHEN FOSTER DR

WHITE SPRINGS FL 32096

### PROPERTY APPRAISER PARCEL NUMBER:

18-2S-16-01650-003

### Remarks:

ADDRESS FOR PROPOSED STRUCTURE ON PARCEL.

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.**

District No. 1 - Ronald Williams  
District No. 2 - Rusty DePratter  
District No. 3 - Bucky Nash  
District No. 4 - Stephen E. Bailey  
District No. 5 - Scarlet P. Frisina



Permit #  
30489



## BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

### Memo of review for correctness and completion

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

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

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

### SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

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

Comments: Accepting old form due to FEMA allowing transition period to new form

Reviewed 6 MARCH 2013

Date of Review: Corrected 1 Aug. 2014

Community Official: Brian L. Kegan

All elevation certificates shall be maintained by the community and copies with the attached memo made available upon request.

BOARD MEETS FIRST THURSDAY AT 7:00 P.M.

AND THIRD THURSDAY AT 7:00 P.M.



# ELEVATION CERTIFICATE

OMB No. 1660-0008  
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name RADEL MICHAEL & TOWNSEND ROBERT C		For Insurance Company Use:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 487 NW STEPHEN FOSTER DR		Policy Number
City WHITE SPRINGS State FL ZIP Code 32096		Company NAIC Number
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LOT 3 STEPHEN FOSTER FOREST S/D.parcel no. 18-2S-16-01650-003, 32Columbia co., Florida		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) _____		
A5. Latitude/Longitude: Lat. 30DEG 19'19" Long. 82DEG 45'29.7"		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number 5		
A8. For a building with a crawlspace or enclosure(s):		
a) Square footage of crawlspace or enclosure(s) NA sq ft		
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade NA		
c) Total net area of flood openings in A8.b NA sq in		
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
A9. For a building with an attached garage:		
a) Square footage of attached garage NA sq ft		
b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade NA		
c) Total net area of flood openings in A9.b NA sq in		
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number 12023C0159C COLUMBIA CO UNINC & INC AREAS		B2. County Name Columbia		B3. State FL	
B4. Map/Panel Number 120070 0159	B5. Suffix C	B6. FIRM Index Date 2/4/2009	B7. FIRM Panel Effective/Revised Date 2/4/2009	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 86
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other (Describe) _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other (Describe) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

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


C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.  
Benchmark Utilized PBM 79.14 Vertical Datum NAVD88  
Conversion/Comments \_\_\_\_\_

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	90.6	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor	NA	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only)	NA	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab)	NA	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	87.0	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG)	82.1	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG)	81.1	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	81.0	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001. ☐  
Check here if comments are provided on back of form. Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No

Certifier's Name WESLEY M. RABON		License Number 6127	
Title PROFESSIONAL SURVEYOR & MAPPER		Company Name WESLEY M. RABON PSM	
Address 398 NW NULL ROAD	City WHITE SPRINGS	State FL	ZIP Code 32096
Signature 	Date 2/22/2013	Telephone 386-397-1199	




<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 473 NW STEPHEN FOSTER DR	Policy Number
City WHITE SPRINGS State FL ZIP Code 32096	Company NAIC Number

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

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

Comments AC=90.4 FEET, ELECTRIC METER 87.1 FEET

Signature  Date 2/22/2013

☐ Check here if attachments

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

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

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

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

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

Property Owner's or Owner's Authorized Representative's Name

Address	City	State	ZIP Code
Signature	Date	Telephone	
Comments			

☐ Check here if attachments

### SECTION G - COMMUNITY INFORMATION (OPTIONAL)

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

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

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

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

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

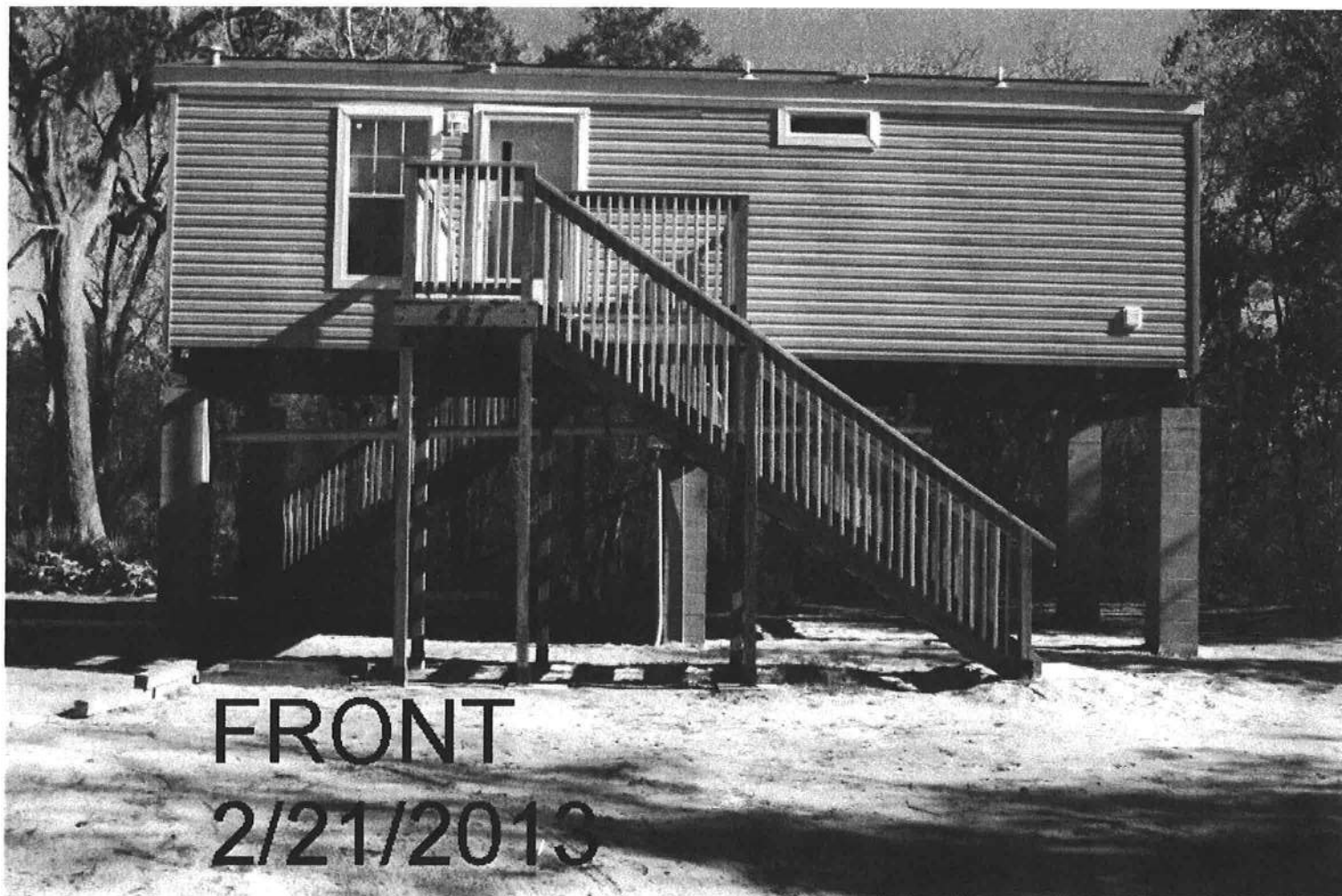
☐ Check here if attachments



## Building Photographs

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 473 NW STEPHEN FOSTER DR	For Insurance Company Use:
City WHITE SPRINGS State FL ZIP Code 32096	Policy 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.	



# Building Photographs

Continuation Page

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 473 NW STEPHEN FOSTER DR	For Insurance Company Use:
City WHITE SPRINGS State FL ZIP Code 32096	Policy Number
Company NAIC Number	
If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View."	





District No. 1 - Ronald Williams  
District No. 2 - Rusty DePratter  
District No. 3 - Bucky Nash  
District No. 4 - Stephen E. Bailey  
District No. 5 - Scarlet P. Frisina

Permit #  
30489



## BOARD OF COUNTY COMMISSIONERS • COLUMBIA COUNTY

### Memo of review for correctness and completion

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

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

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

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

Comments: Accepting old form due to FEMA allowing transition period to new form

Reviewed 6 MARCH 2013

Date of Review: Corrected 1 Aug. 2014

Community Official: Brian L. Kegan

All elevation certificates shall be maintained by the community and copies with the attached memo made available upon request.

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

# ELEVATION CERTIFICATE

000030489  
OMB No. 1660-0008  
Expires March 31, 2012

Important: Read the instructions on pages 1-9.

## SECTION A - PROPERTY INFORMATION

A1. Building Owner's Name RADEL MICHAEL & TOWNSEND ROBERT C		For Insurance Company Use:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 487 NW STEPHEN FOSTER DR		Policy Number
City WHITE SPRINGS State FL ZIP Code 32096		Company NAIC Number
A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.) LOT 3 STEPHEN FOSTER FOREST S/D, parcel no. 18-2S-16-01650-003, 32Columbia co., Florida		
A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) _____		
A5. Latitude/Longitude: Lat. 30DEG 19'19" Long. 82DEG 45'29.7"		Horizontal Datum: <input type="checkbox"/> NAD 1927 <input type="checkbox"/> NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.		
A7. Building Diagram Number 5		
A8. For a building with a crawlspace or enclosure(s):		A9. For a building with an attached garage:
a) Square footage of crawlspace or enclosure(s) NA sq ft		a) Square footage of attached garage NA sq ft
b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade NA		b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade NA
c) Total net area of flood openings in A8.b NA sq in		c) Total net area of flood openings in A9.b NA sq in
d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		d) Engineered flood openings? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

## SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number 12023C0159C COLUMBIA CO UNINC & INC AREAS		B2. County Name Columbia	B3. State FL		
B4. Map/Panel Number 120070 0159	B5. Suffix C	B6. FIRM Index Date 2/4/2009	B7. FIRM Panel Effective/Revised Date 2/4/2009	B8. Flood Zone(s) AE	B9. Base Flood Elevation(s) (Zone AO, use base flood depth) 86
B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9. <input type="checkbox"/> FIS Profile <input checked="" type="checkbox"/> FIRM <input type="checkbox"/> Community Determined <input type="checkbox"/> Other (Describe) _____					
B11. Indicate elevation datum used for BFE in Item B9: <input type="checkbox"/> NGVD 1929 <input checked="" type="checkbox"/> NAVD 1988 <input type="checkbox"/> Other (Describe) _____					
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Designation Date _____ <input type="checkbox"/> CBRS <input type="checkbox"/> OPA					

## SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

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

C2. Elevations - Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.

Benchmark Utilized PBM 79.14 Vertical Datum NAVD88

Conversion/Comments \_\_\_\_\_

Check the measurement used.

a) Top of bottom floor (including basement, crawlspace, or enclosure floor) 90.6	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
b) Top of the next higher floor NA	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only) NA	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
d) Attached garage (top of slab) NA	<input type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments) 87.0	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG) 82.1	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG) 81.1	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support 81.0	<input checked="" type="checkbox"/> feet <input type="checkbox"/> meters (Puerto Rico only)

## SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

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

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

Certifier's Name WESLEY M. RABON	License Number 6127		
Title PROFESSIONAL SURVEYOR & MAPPER	Company Name WESLEY M. RABON PSM		
Address 398 NW NULL ROAD	City WHITE SPRINGS	State FL	ZIP Code 32096
Signature <i>Wesley M. Rabon</i>	Date 2/22/2013	Telephone 386-397-1199	





<b>IMPORTANT: In these spaces, copy the corresponding information from Section A.</b>	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 473 NW STEPHEN FOSTER DR	Policy Number
City WHITE SPRINGS State FL ZIP Code 32096	Company NAIC Number

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

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

Comments AC=90.4 FEET, ELECTRIC METER 87.1 FEET

Signature [Signature] Date 2/22/2013

☐ Check here if attachments

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

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

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

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

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

Property Owner's or Owner's Authorized Representative's Name \_\_\_\_\_

Address	City	State	ZIP Code
Signature	Date	Telephone	
Comments			

☐ Check here if attachments

### SECTION G - COMMUNITY INFORMATION (OPTIONAL)

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

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

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

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

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

☐ Check here if attachments

## Building Photographs

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 473 NW STEPHEN FOSTER DR	For Insurance Company Use: Policy Number
City WHITE SPRINGS State FL ZIP Code 32096	Company NAIC Number
<p>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.</p>	





# Building Photographs

Continuation Page

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 473 NW STEPHEN FOSTER DR	For Insurance Company Use: Policy Number
City WHITE SPRINGS State FL ZIP Code 32096	Company NAIC Number
If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View."	





FEMA

## Resource Record Details

### National Flood Insurance Program Elevation Certificate and Instructions



The National Flood Insurance Program (NFIP) Elevation Certificate (EC) is an administrative tool of the NFIP which is to be used to provide elevation information necessary to ensure compliance with community floodplain management ordinances, to determine the proper insurance premium rate, or support a request for a Letter of Map Amendment (LOMA).

FEMA will permit a "phase-in" of the revised EC on a voluntary basis. During the 12-month transition period beginning August 1, 2012, we will accept either the new form or the old form. Elevations certified after the last day of the transition period must be submitted on the new Elevation Certificate form with the expiration date of July 31, 2015.

#### Document Details:

Media Type:	File
Availability:	Online Custom CD/DVD
Language:	English
Date Published:	02/2013

Add to My Bookshelf



## MOBILE HOME INSTALLATION SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER

1208-82  
1208-82

CONTRACTOR

Manuel Brannen

PHONE

590-3289

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

**Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.**

<b>ELECTRICAL</b>	Print Name <u>MICHAEL A. RADEL</u> License #: <u>Owner</u>	Signature <u>Michael A. Radel</u> Phone #: _____
<b>MECHANICAL/ A/C</b>	Print Name <u>MICHAEL A. RADEL</u> License #: <u>Owner</u>	Signature <u>Michael A. Radel</u> Phone #: <u>(386) 234-5056</u>
<b>PLUMBING/ GAS</b>	Print Name <u>Manuel Brannen</u> License #: <u>1025396</u>	Signature <u>Manuel Brannen</u> Phone #: <u>886-590-3289</u>

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON	<u>CGC 06055</u>	<u>Charles A. Boone Jr</u>	<u>Charles A. Boone</u>
CONCRETE FINISHER	<u>CGC 06055</u>	<u>Charles A. Boone Jr</u>	<u>Charles A. Boone</u>

**F. S. 440.103 Building permits; identification of minimum premium policy.**—Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.

Contractor Forms: Subcontractor form: 1/11

(10310)

# Columbia County Property Appraiser

CAMA updated: 8/2/2012

**2011 Tax Year****Parcel:** 18-2S-16-01650-003

&lt;&lt; Next Lower Parcel Next Higher Parcel &gt;&gt;

Tax Collector Tax Estimator Property Card

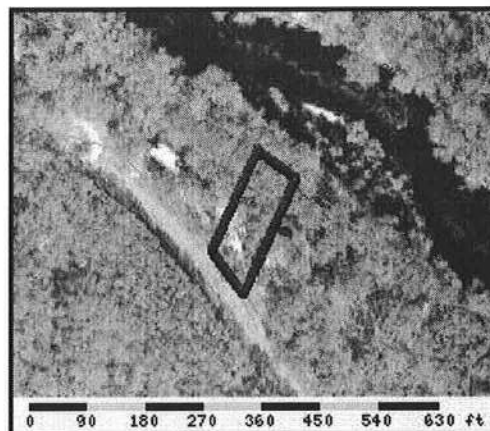
Parcel List Generator

Interactive GIS Map Print

Search Result: 1 of 1

## Owner & Property Info

Owner's Name	RADEL MICHAEL A		
Mailing Address	592 NW STEPHEN FOSTER DR WHITE SPRINGS, FL 32096		
Site Address	487 NW STEPHEN FOSTER DR		
Use Desc. (code)	VACANT (000000)		
Tax District	3 (County)	Neighborhood	18216
Land Area	0.000 ACRES	Market Area	03
Description	NOTE: This description is not to be used as the Legal Description for this parcel in any legal transaction.		
LOT 3 STEPHEN FOSTER FOREST S/D. ORB 851-1014, 888-1045, WD 1010-1246.			



## Property & Assessment Values

2011 Certified Values		
<b>Mkt Land Value</b>	cnt: (0)	\$24,000.00
<b>Ag Land Value</b>	cnt: (1)	\$0.00
<b>Building Value</b>	cnt: (0)	\$0.00
<b>XFOB Value</b>	cnt: (0)	\$0.00
<b>Total Appraised Value</b>		\$24,000.00
<b>Just Value</b>		\$24,000.00
<b>Class Value</b>		\$0.00
<b>Assessed Value</b>		\$24,000.00
<b>Exempt Value</b>		\$0.00
<b>Total Taxable Value</b>	Cnty: \$24,000 Other: \$24,000   Schl: \$24,000	

## 2012 Working Values

### NOTE:

2012 Working Values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.

Show Working Values

## Sales History

Show Similar Sales within 1/2 mile

Sale Date	OR Book/Page	OR Code	Vacant / Improved	Qualified Sale	Sale RCode	Sale Price
3/22/2004	1010/1246	WD	V	Q		\$12,000.00
5/13/1999	888/1045	WD	V	Q		\$12,000.00
12/2/1997	851/1014	QC	V	U	01	\$0.00

## Building Characteristics

Bldg Item	Bldg Desc	Year Blt	Ext. Walls	Heated S.F.	Actual S.F.	Bldg Value
NONE						

## Extra Features & Out Buildings

Code	Desc	Year Blt	Value	Units	Dims	Condition (% Good)
NONE						

## Land Breakdown

Lnd Code	Desc	Units	Adjustments	Eff Rate	Lnd Value
000000	VAC RES (MKT)	75 FF - (0000000.000AC)	1.00/1.00/1.00/1.00	\$320.00	\$24,000.00





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

# MOBILE HOME INSTALLERS LETTER OF AUTHORIZATION

I, Manuel Brannan, give this authority for the job address show below  
Installer License Holder Name

only, 487 NW STEPHEN FOSTER WHITE SPRINGS, FL 32096, and I do certify that  
Job Address

the below referenced person(s) listed on this form is/are under my direct supervision and control  
and is/are authorized to purchase permits, call for inspections and sign on my behalf.

Printed Name of Authorized Person	Signature of Authorized Person	Authorized Person is... (Check one)
Clint Boone	<i>Clint Boone</i>	<input checked="" type="checkbox"/> Agent <input type="checkbox"/> Officer <input type="checkbox"/> Property Owner
Charles Boone	<i>Charles Boone</i>	<input checked="" type="checkbox"/> Agent <input type="checkbox"/> Officer <input type="checkbox"/> Property Owner
		<input type="checkbox"/> Agent <input type="checkbox"/> Officer <input type="checkbox"/> Property Owner

I, the license holder, realize that I am responsible for all permits purchased, and all work done under my license and I am fully responsible for compliance with all Florida Statutes, Codes, and Local Ordinances.

I understand that the State Licensing Board has the power and authority to discipline a license holder for violations committed by him/her or by his/her authorized person(s) through this document and that I have full responsibility for compliance granted by issuance of such permits.

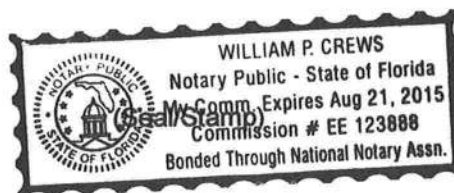
Manuel Brannan 1025396 8-28-12  
License Holders Signature (Notarized) License Number Date

## NOTARY INFORMATION:

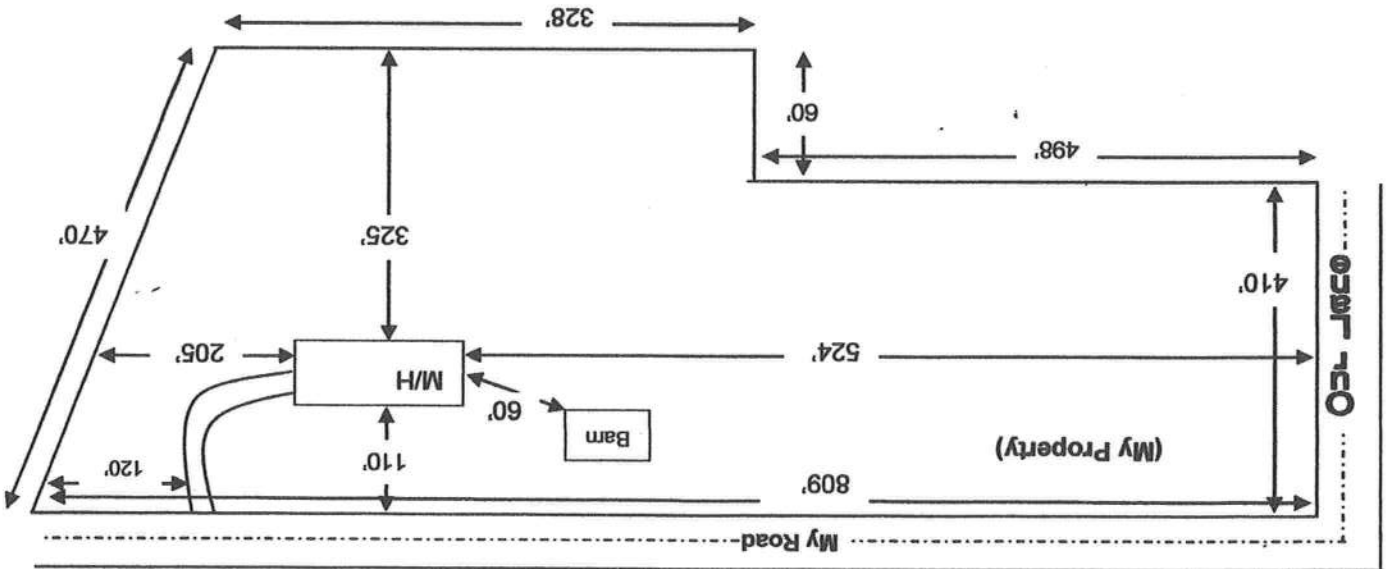
STATE OF: Florida COUNTY OF: Columbia

The above license holder, whose name is Manuel Brannan,  
personally appeared before me and ~~is known by me~~ or has produced identification  
(type of I.D.) \_\_\_\_\_ on this 28<sup>th</sup> day of August, 2012.

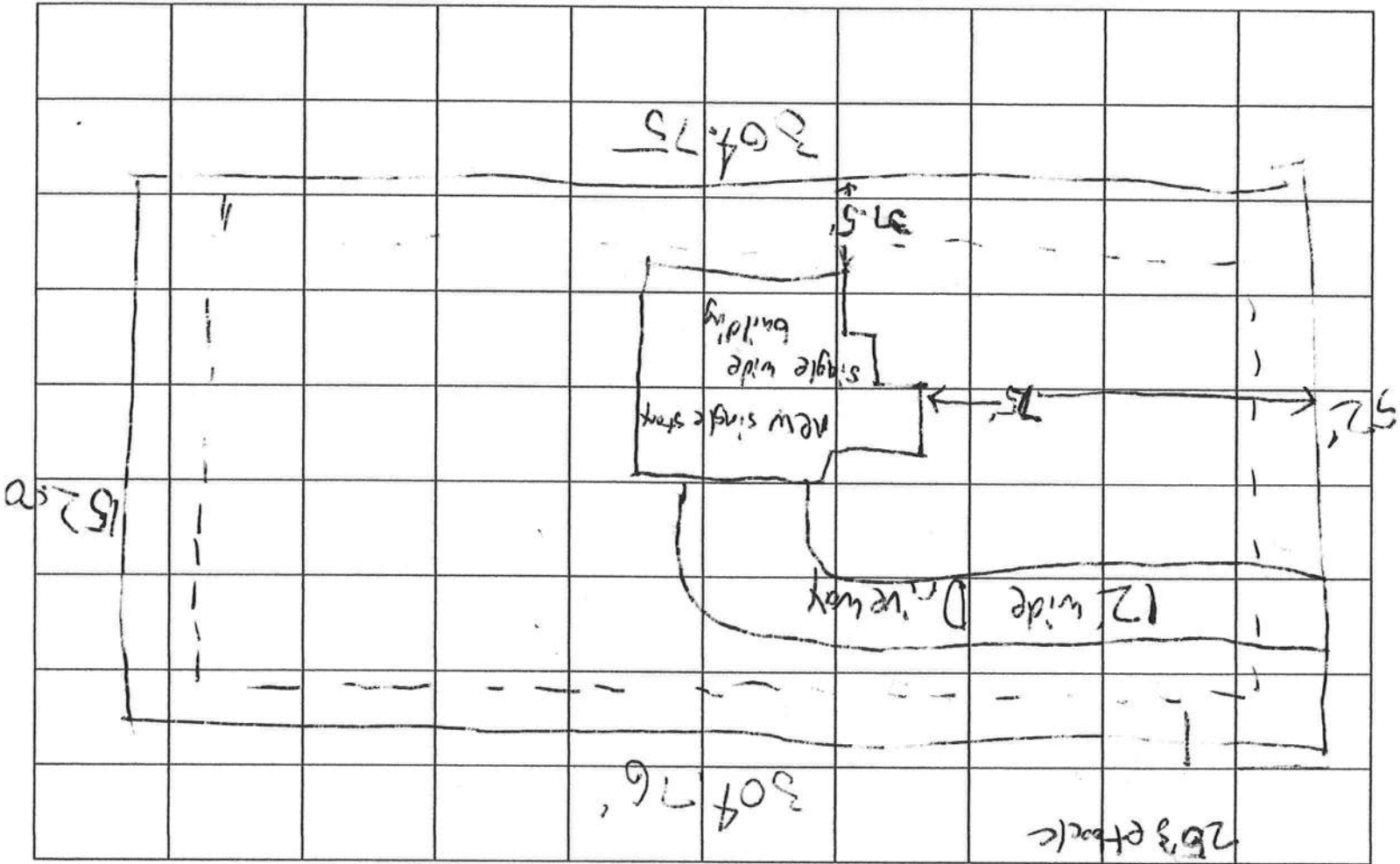
[Signature]  
NOTARY'S SIGNATURE



# SITE PLAN EXAMPLE / WORKSHEET

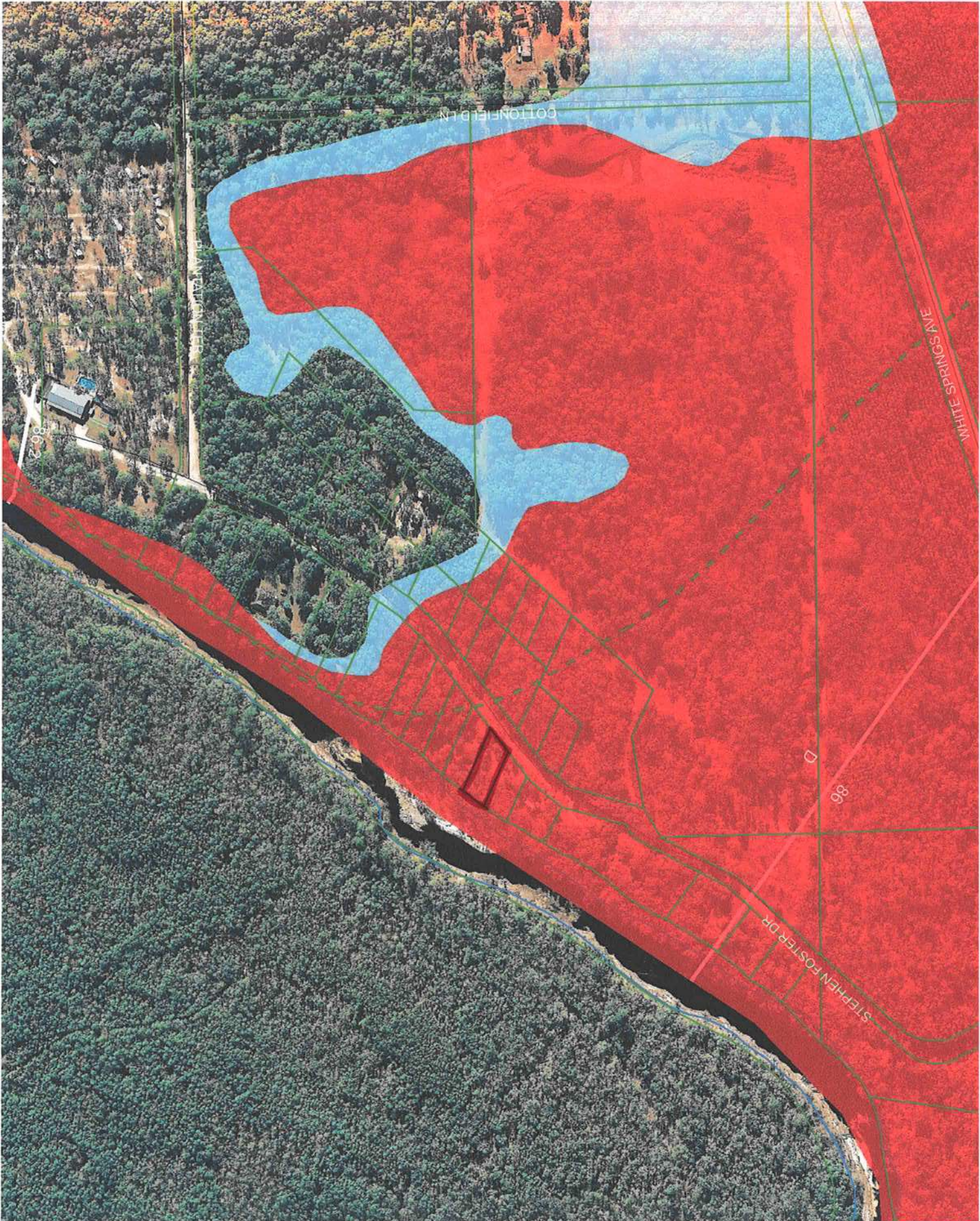


Use this example to draw your own site plan. Show all existing buildings and any other roads or roads are around the property. This site plan can also be used for the 911 Addressing department if you include the distance from the driveway to the nearest property line.

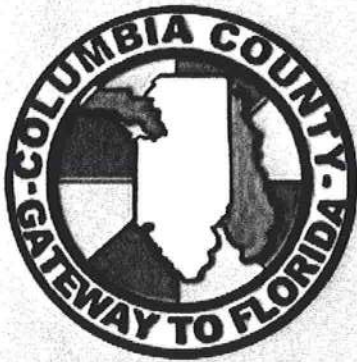




1208-82







## Columbia County, Florida Planning & Zoning Department

Review of Building Permit for compliance with  
County's Comprehensive Plan and  
Land Development Regulations

12 September 2012

Clint Boone  
P.O. Box 7044  
Lake City, FL 32056-7044

RE: Mobile Home move-on Permit Applications 1208-81 and 1208-82, Radel and Townsend

Dear Mr. Boone:

The properties for which the above referenced applications have been made are located within the 100 year flood zone (Zone AE) with a base flood elevation of 86 feet (88NAVD) and the Floodway in accordance with the FEMA Flood Insurance Rate Maps (FIRM) effect as of 4 February 2009. Under the County's Land Development Regulations (LDR's) a zero (0) foot rise letter signed and seal by an engineer stating that the structure once placed on the property will not cause the flood waters to rise, including calculations will need to be submitted. This will need to be provided and reviewed for approval prior to the permit being issued. In addition, the finished floor elevation with any or all machinery and or equipment servicing the mobile home also to be one (1) foot above the FEMA determined flood elevation referenced above. Once the mobile home has been installed, an elevation certification from a surveyor will be required before permanent power will be released.

As this property is also located within the floodway of the Suwannee River, you will need to check with the Suwannee River Water management District to see if they will require a permit as well.

If you have any questions concerning this matter, please do not hesitate to contact me at 386.754.7119.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian L. Kepner".

Brian L. Kepner  
Land Development Regulation Administrator,  
County Planner

xc: Robert Townsend  
Michael Radel



**COLUMBIA COUNTY  
FLORIDA**

**M/H OCCUPANCY**

**COLUMBIA COUNTY, FLORIDA**

## Department of Building and Zoning Inspection

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

Parcel Number 18-2S-16-01650-003

Building permit No. 000030489

Permit Holder MANUEL BRANNON

Owner of Building MICHAEL RADEL

Location: 487 NW STEPHEN FOSTER DR., WHITE SPRINGS, FL 32096



Date: 06/07/2013

*[Signature]*  
Building Inspector

**POST IN A CONSPICUOUS PLACE**  
*(Business Places Only)*



## SUBCONTRACTOR VERIFICATION FORM

APPLICATION NUMBER

30488  
30489

CONTRACTOR

MANUEL BRANNAN

PHONE

386-590-3289

THIS FORM MUST BE SUBMITTED PRIOR TO THE ISSUANCE OF A PERMIT

In Columbia County one permit will cover all trades doing work at the permitted site. It is **REQUIRED** that we have records of the subcontractors who actually did the trade specific work under the permit. Per Florida Statute 440 and Ordinance 89-6, a contractor shall require all subcontractors to provide evidence of workers' compensation or exemption, general liability insurance and a valid Certificate of Competency license in Columbia County.

**Any changes, the permitted contractor is responsible for the corrected form being submitted to this office prior to the start of that subcontractor beginning any work. Violations will result in stop work orders and/or fines.**

<b>ELECTRICAL</b>	Print Name <u>LOUIS SAUSBY</u> License #: <u>EC13002771</u>	Signature <u>[Signature]</u> Phone #: <u>386.627.0914</u>
<b>MECHANICAL/ A/C</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____
<b>PLUMBING/ GAS</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____
<b>ROOFING</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____
<b>SHEET METAL</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____
<b>FIRE SYSTEM/ SPRINKLER</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____
<b>SOLAR</b>	Print Name _____ License #: _____	Signature _____ Phone #: _____

Specialty License	License Number	Sub-Contractors Printed Name	Sub-Contractors Signature
MASON			
CONCRETE FINISHER			
FRAMING			
INSULATION			
STUCCO			
DRYWALL			
PLASTER			
CABINET INSTALLER			
PAINTING			
ACOUSTICAL CEILING			
GLASS			
CERAMIC TILE			
FLOOR COVERING			
ALUM/VINYL SIDING			
GARAGE DOOR			
METAL BLDG ERECTOR			

**F. S. 440.103 Building permits; identification of minimum premium policy.**--Every employer shall, as a condition to applying for and receiving a building permit, show proof and certify to the permit issuer that it has secured compensation for its employees under this chapter as provided in ss. 440.10 and 440.38, and shall be presented each time the employer applies for a building permit.



# 0 Rise Certifications for Robert Townsend



David Still, P.E.

The enclosed report is in partial fulfillment of requirements by Columbia County Land Development Regulations as per letter dated 12 September to Mr. Clint Boone from Mr. Brian L. Kepner, LDR Administrator, County Planner.

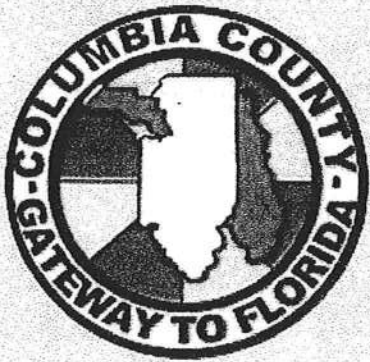
David Still, PE & Asso., LLC

10966 South U.S. Highway 441

Lake City, Florida 32025

386.288.6390

9/17/2012



## Columbia County, Florida Planning & Zoning Department

Review of Building Permit for compliance with  
County's Comprehensive Plan and  
Land Development Regulations

12 September 2012

Clint Boone  
P.O. Box 7044  
Lake City, FL 32056-7044

RE: Mobile Home move-on Permit Applications 1208-81 and 1208-82, Radel and Townsend

Dear Mr. Boone:

The properties for which the above referenced applications have been made are located within the 100 year flood zone (Zone AE) with a base flood elevation of 86 feet (88NAVD) and the Floodway in accordance with the FEMA Flood Insurance Rate Maps (FIRM) effect as of 4 February 2009. Under the County's Land Development Regulations (LDR's) a zero (0) foot rise letter signed and seal by an engineer stating that the structure once placed on the property will not cause the flood waters to rise, including calculations will need to be submitted. This will need to be provided and reviewed for approval prior to the permit being issued. In addition, the finished floor elevation with any or all machinery and or equipment servicing the mobile home also to be one (1) foot above the FEMA determined flood elevation referenced above. Once the mobile home has been installed, an elevation certification from a surveyor will be required before permanent power will be released.

As this property is also located within the floodway of the Suwannee River, you will need to check with the Suwannee River Water management District to see if they will require a permit as well.

If you have any questions concerning this matter, please do not hesitate to contact me at 386.754.7119.

Sincerely,

A handwritten signature in dark ink, appearing to read "Brian L. Kepner".

Brian L. Kepner  
Land Development Regulation Administrator,  
County Planner

xc: Robert Townsend  
Michael Radel



19 September 2012

Mr. Brian L. Kepner

Land Development Regulation Administrator, County Planner  
Columbia County, Florida

Subject: Mobile Home move-on Permit Applications 1208-81 and 1208-82

Dear Mr. Kepner:

Regarding your letter to Mr. Clint Boone regarding the above referenced permits, enclosed is he requirements requested in your letter.

I performed two zero rise calculation using the U.S. Army Corps of Engineers HEC-RAS model. The downstream lot, 18-2S-16-01650-002, will not cause flood waters to rise once the structure is placed on the lot. The signed and sealed HEC-RAS runs are included for you review.

I also performed the required calculations for the upstream lot, 18-2S-16-01650-003, again using the USACOE HEC-RAS model. Again the results of the modeling show that the structures placed on the property and elevated one foot above the 1% chance flood of 85.9 feet to 86.9 feet as shown on the flood report will no cause flood water to rise once the structure is placed on the lot. These elevations are minimum requirements by LDRs.

The owner is aware of the required elevation certificate for a registered land surveyor upon construction completion. I also checked with the Suwannee River Water Management District regarding permits required through that agency.

If you have any questions concerning this matter, please do not hesitate to contact me at 386.288.6390.

Sincerely,



David Still, P.E.  
David Still, P.E. & Associates, LLC  
10966 South U.S. Highway 441  
Lake City, Florida 32025



*David Still*  
19 Sept 2012

September 19, 2012

# FLOOD INSURANCE STUDY



## COLUMBIA COUNTY, FLORIDA AND INCORPORATED AREAS

Columbia County



COMMUNITY NAME  
COLUMBIA COUNTY  
(UNINCORPORATED AREAS)  
FORT WHITE, TOWN OF  
LAKE CITY, CITY OF

COMMUNITY NUMBER  
120070  
120349  
120406

FEBRUARY 4, 2009



Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER  
12023CV000A



FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER-SURFACE ELEVATION (FEET NGVD)			
CROSS SECTION	DISTANCE	WIDTH <sup>3</sup> (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Santa Fe River(Continue)								
W	32.18 <sup>1</sup>	2,115/1,129	27,858	0.9	52.2	52.2	53.0	0.8
X	33.09 <sup>1</sup>	2,322/1,743	30,800	0.8	53.1	53.1	54.1	1.0
Y	33.85 <sup>1</sup>	4,222/1,303	50,494	0.5	53.7	53.7	54.7	1.0
Z	35.57 <sup>1</sup>	5,589/255	43,347	0.8	54.6	54.6	55.5	0.9
AA	37.98 <sup>1</sup>	2,490/2,341	36,149	0.9	55.9	55.9	56.7	0.8
AB	39.02 <sup>1</sup>	622/538	9,525	3.4	56.4	56.4	57.3	0.9
AC	39.81 <sup>1</sup>	1,753/121	28,891	1.1	57.7	57.7	58.6	0.9
Suwannee River								
A	166.34 <sup>2</sup>	4,173/177	58,902	0.6	85.8	85.8	86.8	1.0
B	166.93 <sup>2</sup>	4,916/161	82,272	0.4	86.0	86.0	87.0	1.0
C	158.15 <sup>2</sup>	7,174/6,736	118,621	0.3	86.2	86.2	87.2	1.0
D	169.35 <sup>2</sup>	4,392/2,918	65,101	0.5	86.6	86.6	87.6	1.0
E	169.80 <sup>2</sup>	2,528/47	34,603	1.0	86.8	86.8	87.8	1.0
F	170.11 <sup>2</sup>	3,334/1,861	40,196	0.8	87.2	87.2	88.2	1.0
G	171.09 <sup>2</sup>	3,463/2,976	45,834	0.7	88.0	88.0	89.0	1.0
H	172.42 <sup>2</sup>	4,596/3,575	52,773	0.6	89.0	89.0	89.9	0.9
I	173.89 <sup>2</sup>	3,379/3,143	53,982	0.6	89.9	89.9	90.9	1.0
J	174.74 <sup>2</sup>	2,274/1,399	31,981	1.0	90.5	90.5	91.5	1.0
K	176.17 <sup>2</sup>	3,098/1,327	36,929	0.9	91.3	91.3	92.3	1.0
L	177.71 <sup>2</sup>	1,540/540	27,258	1.2	92.7	92.7	93.7	1.0
M	178.85 <sup>2</sup>	3,313/46	47,537	0.7	93.5	93.5	94.5	1.0
N	180.47 <sup>2</sup>	2,934/1,823	39,890	0.8	94.2	94.2	95.2	1.0
O	182.10 <sup>2</sup>	3,259/578	39,912	0.8	95.3	95.3	96.3	1.0
P	183.61 <sup>2</sup>	2,314/1,243	33,602	0.9	96.2	96.2	97.2	1.0
Q	184.53 <sup>2</sup>	3,732/2,211	50,181	0.6	96.7	96.7	97.7	1.0

<sup>1</sup>Miles above confluence with Suwannee River

<sup>2</sup>Miles above mouth

<sup>3</sup>Width/ Width within county boundary

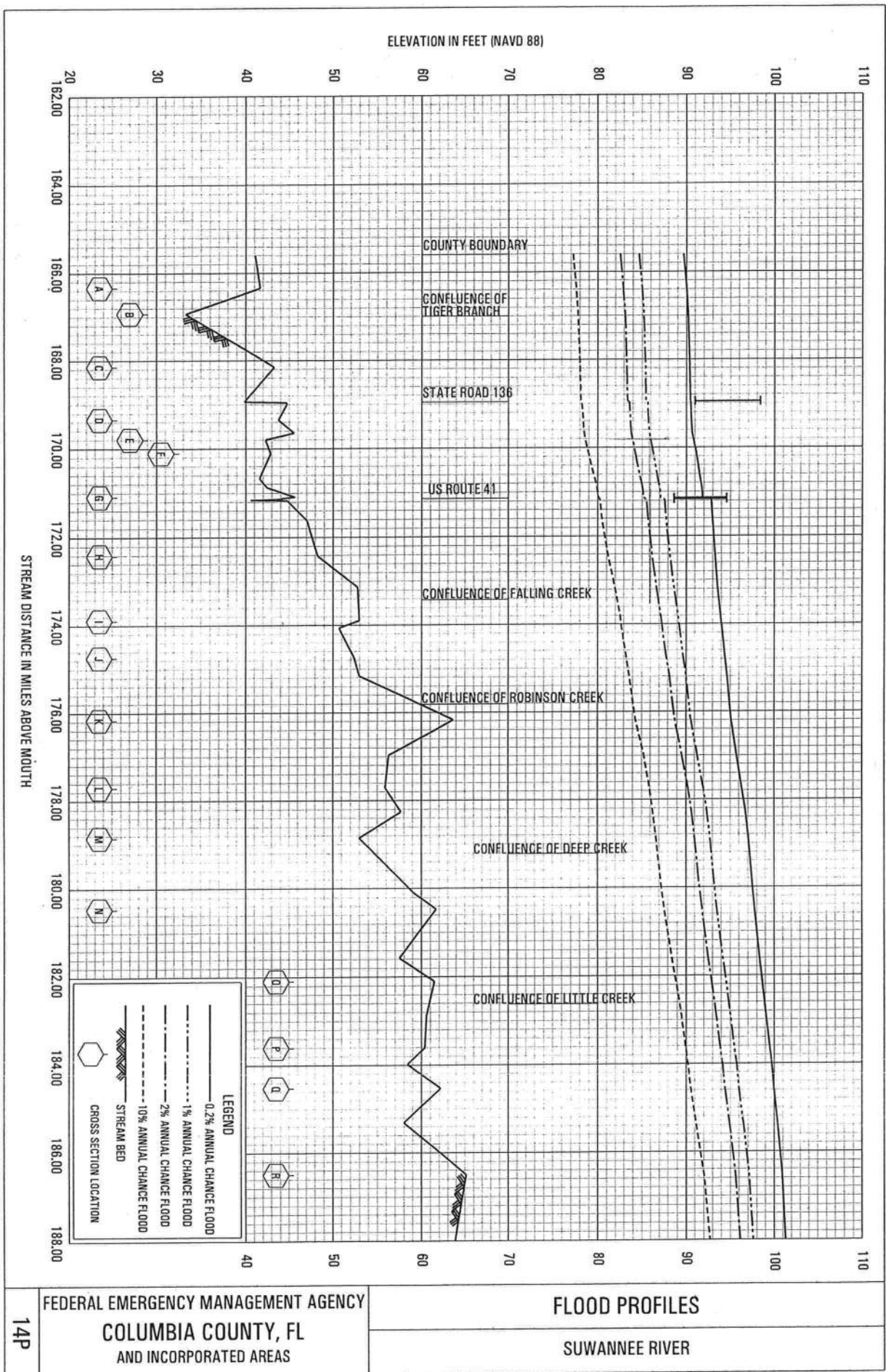
TABLE 3

FEDERAL EMERGENCY MANAGEMENT AGENCY

COLUMBIA COUNTY, FL  
AND INCORPORATED AREAS

FLOODWAY DATA

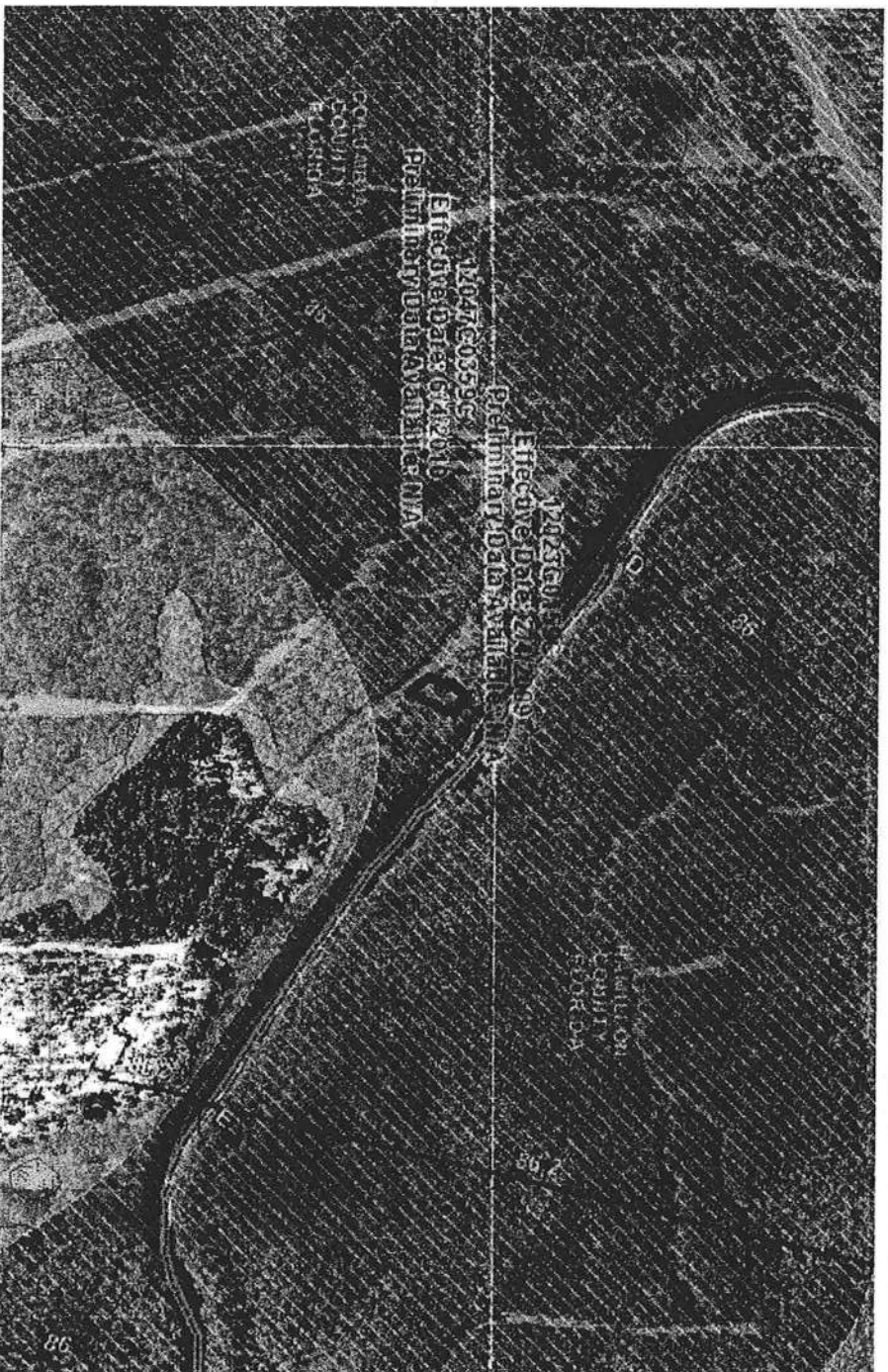
SANTA FE RIVER - SUWANNEE RIVER







# Suwannee River Water Management District Effective Flood Information Report



Effective Flood Zones described on Page 2	
	SFHA - AE w/Floodway
	SFHA - Zone VE
	SFHA - Zone A
	SFHA - Zones AE, AH, AO
	Wetlands
	FIRM Panel
	State Lands
	Counties
	SRWMD
	Depressions
	BFE
	Cross Sections

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

Requests to revise flood information in or near designated flood hazard areas may be provided to FEMA during the community review period on preliminary maps, or through the Letter of Map Change process for effective maps.

Location	
Date:	09-17-2012
Parcel:	18-2S-16-01650-002
County:	Columbia
STR:	S018 T02 R16
Columbia Flood Hazard Areas Status:	Effective: 02/04/2009
FIRM Panel(s):	12023C0159C, 12047C0359
	C

Parcel In Special Flood Hazard Area? (SFHA): Yes

Flood Zone(s): AE FW

1% Annual Chance Flood Elev (BFE): 85.9 (feet)

Floodway: Yes

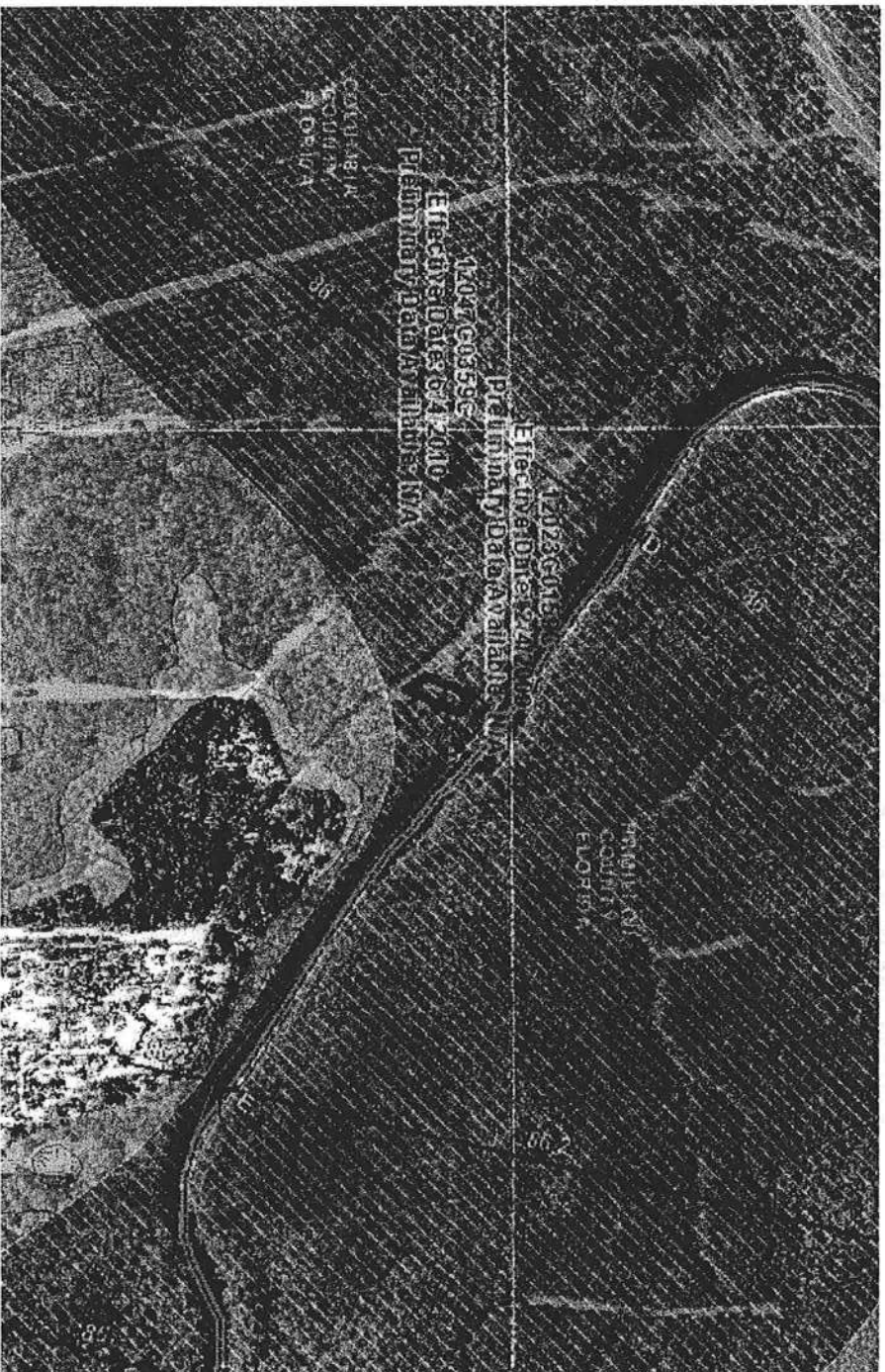
10% Annual Chance Flood Elev: 78.6 (feet)

50% Annual Chance Flood Elev: 68.6 (feet)

Note: Elevations are based on NAVD88



# Suwannee River Water Management District Effective Flood Information Report



Effective Flood Zones described on  
Page 2

	SFHA - Zone VE		Wetlands
	SFHA - Zone A		FIRM Panel
	0.2 % (shaded X)		SRWMD
			Parcels
			Depressions
			Cross Sections

The Federal Emergency Management Agency (FEMA) maintains information about map features, such as street locations and names, in or near designated flood hazard areas. The information herein represents the best available data as of the effective date shown. The applicable Flood Insurance Study and a Digital Flood Insurance Rate Map is available online (<http://www.srwmdfloodreport.com>). To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to also consult the FEMA Map Service Center at 1-800-358-9616 (<http://www.msc.fema.gov>) for information on available products associated with this FIRM panel. Available products from the Map Service Center may include previously issued Letters of Map Change. Requests to revise flood information in or near designated flood hazard areas may be provided to FEMA during the community review period on preliminary maps, or through the Letter of Map Change process for effective maps.

## LOCATION

Date: 09-19-2012

Parcel: 18-2S-16-01650-003

County: Columbia

STR: S018 T02 R16

Columbia Flood Hazard Areas Status: Effective:  
02/04/2009

## FLOOD INFORMATION

FIRM Panel(s): 12023C0159C, 12047C0359  
C

Parcel In Special Flood  
Hazard Area? (SFHA): Yes

Flood Zone(s): AE FW

1% Annual Chance  
Flood Elev (BFE): 85.9 (feet)

Floodway: Yes

10% Annual  
Chance Flood Elev: 78.6 (feet)

50% Annual

Chance Flood Elev: 68.6 (feet)

Note: Elevations are based on NAVD88



robert\_lot3\_post.rep

Robert\_lot3\_post  
HEC-RAS Version 4.1.0 Jan 2010  
U.S. Army Corps of Engineers  
Hydrologic Engineering Center  
609 Second Street  
Davis, California

```

X      X  XXXXXX  XXXX      XXXX      XX      XXXX
X      X  X      X      X      X      X      X
X      X  X      X      X      X      X      X
XXXXXXX XXXX      X      XXX XXXX      XXXXXX  XXXX
X      X  X      X      X      X      X      X
X      X  X      X      X      X      X      X
X      X  XXXXXX  XXXX      X      X      X      XXXXX

```

#### PROJECT DATA

Project Title: Suwannee River Upper Section

Project File : Suwannee.prj

Run Date and Time: 9/19/2012 9:40:14 AM

Project in English units

#### Project Description:

Suwannee River Floodplain model. Converted to HEC-RAS bridge routines by Dewberry 6-31-06.

Model uses fixed starting elevations for multi-profile and floodway runs at section 127.49 which ties in to the revised HEC-RAS model produced for Dixie, Gilchrist and Lafayette County DFIRMS produced in 2005 by Dewberry and URS.

Datum conversions were performed as follows to convert the entire model from NGVD29 to NAVD88:

Alapaha (entirely Hamilton County) -0.76

Withlacoochee (Madison and Hamilton Counties)  $(-0.7+ -0.76)/2$   
= -0.73

Suwannee Reaches:  
WtoSF (mile 127.49-Withlacoochee) (Madison and Suwannee Counties)  
 $(-0.72+ -0.7)/2 = -0.71$

Alatow (Alapaha to Withlacoochee) (Suwannee and Hamilton Counties)  
 $(-0.72+ -0.76)/2 = -0.74$

UpstreamEnd (State Line to Alapaha) (Hamilton, Suwannee and Columbia Counties)  
 $(-0.76+ -0.72+ -0.84)/3 = -0.77$

SRWMD Floodway runs have been merged into plan file to create 1 HEC-RAS model. Where necessary, the cross section stations were shifted by a constant amount and the encroachment

robert\_lot3\_post.rep

stations were adjusted accordingly to align with internal bridge sections and give correct results for HEC-RAS version 3.1.3 floodway modeling through bridges.

#### PLAN DATA

Plan Title: Plan 03  
Plan File : C:\Users\David\hec\HEC-RAS Model\Suwannee.p03

Geometry Title: Robert\_lot3\_post  
Geometry File : C:\Users\David\hec\Suwannee.g02

Flow Title : Floodway Flows  
Flow File : C:\Users\David\hec\HEC-RAS Model\Suwannee.f02

#### Plan Summary Information:

Number of: Cross Sections	= 202	Multiple Openings	= 0
Culverts	= 0	Inline Structures	= 0
Bridges	= 14	Lateral Structures	= 0

#### Computational Information

Water surface calculation tolerance	= 0.01
Critical depth calculation tolerance	= 0.01
Maximum number of iterations	= 20
Maximum difference tolerance	= 0.3
Flow tolerance factor	= 0.001

#### Computation Options

Critical depth computed only where necessary  
Conveyance Calculation Method: At breaks in n values only  
Friction Slope Method: Average Conveyance  
Computational Flow Regime: Subcritical Flow

#### Encroachment Data

Equal Conveyance	= True
Left Offset	= 0
Right Offset	= 0

#### CROSS SECTION

RIVER: Suwannee  
REACH: UpstreamEnd RS: 169.8

#### INPUT

Description: 169.8  
X-SECTION IDENTIFICATION WII88

Station Elevation Data				num=	81				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	102.16	10072	102.06	10100	100.96	10174	101.26	10225	101.16
10308	100.16	10413	99.36	10495	99.56	10583	99.46	10744	99.16
10825	99.36	10905	99.06	11006	98.36	11112	98.16	11196	97.46
11280	97.76	11360	97.16	11517	96.86	11584	95.56	11653	92.16
11656	84.46	11669	82.66	11685	74.36	11696	56.66	11706	52.66
11716	49.56	11736	46.36	11756	42.56	11776	42.26	11796	46.56



robert\_lot3\_post.rep

11801	47.96	11804	52.66	11818	62.16	11846	76.76	11857	74.66
11864	74.86	11888	80.66	11901	77.06	11923	77.16	11976	77.06
12007	76.56	12044	76.06	12113	76.36	12172	75.76	12236	76.06
12290	76.46	12414	77.46	12600	76.86	12666	76.06	12782	72.56
12852	70.36	13016	69.96	13049	73.26	13103	73.86	13187	72.76
13349	72.16	13401	73.86	13463	73.56	13631	73.96	13808	74.86
13873	76.86	13946	77.56	14028	76.56	14095	75.56	14170	75.56
14218	75.66	14280	75.46	14329	75.46	14404	75.16	14487	75.06
14536	74.96	14599	75.56	14668	76.16	14774	77.96	14880	86.16
15060	98.36	15213	116.06	15404	117.96	15577	116.16	15594	117.26
15615	117.36								

Manning's n Values num= 3  
Sta n Val Sta n Val Sta n Val  
10000 .25 11685 .05 11846 .25

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
11685 11846 1000 825 900 .1 .3

CROSS SECTION

RIVER: Suwannee  
REACH: UpstreamEnd RS: 169.65

INPUT  
Description: 169.65

Station Elevation Data			num= 94						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	91.56	10047	92.06	10070	95.86	10134	95.46	10191	96.16
10343	96.06	10416	94.76	10580	93.56	10608	89.96	10633	90.46
10736	78.96	10849	72.56	11174	62.26	11196	72.06	11241	76.46
11289	79.96	11346	83.16	11397	85.26	11419	89.06	11490	90.36
11568	90.66	11627	91.66	11674	91.36	11719	92.16	11776	91.76
11837	91.26	11890	93.26	11956	92.96	12001	92.96	12012	94.36
12080	94.36	12158	94.26	12234	93.36	12249	88.26	12269	80.56
12289	73.76	12312	71.06	12318	68.16	12328	54.36	12333	52.56
12334	52.26	12354	45.56	12374	46.36	12394	46.46	12414	47.16
12434	49.16	12443	52.56	12457	69.26	12480	76.16	12675	68.66
12720	67.06	12746	68.56	12764	69.76	12801	69.66	12809	69.86
12846	69.66	12904	69.06	12984	68.46	13049	67.96	13058	67.96
13144	70.06	13203	72.36	13245	72.46	13308	75.56	13351	70.46
13378	74.06	13432	73.36	13495	72.06	13633	72.06	13736	71.96
13850	73.56	13919	73.76	13975	74.46	14035	73.36	14116	73.06
14158	71.66	14572	72.36	14616	71.96	14651	72.26	14696	72.56
14710	75.46	14741	79.26	14774	84.66	14822	89.16	14859	104.76
14924	115.96	14958	122.56	14987	128.36	15021	129.66	15057	128.76
15102	127.56	15153	125.96	15180	124.16	15207	124.16		

Manning's n Values num= 4  
Sta n Val Sta n Val Sta n Val  
10000 99 12249 .25 12318 .05 12457 .25

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
12318 12457 1750 1550 1000 .1 .3

CROSS SECTION

RIVER: Suwannee  
REACH: UpstreamEnd RS: 169.50

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INPUT

Description: 18-2S-16-01650-003, Upstream lot

Station Elevation Data				num= 102			
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66
11534	75.46	11592	75.76	11762	75.46	11854	74.86
12039	75.66	12090	76.36	12219	74.36	12353	72.46
12635	81.56	12675	81.56	12730	82.36	12822	81.36
12984	74.26	13066	69.16	13138	63.26	13229	62.26
13428	64.86	13485	67.56	13562	70.36	13611	70.06
13731	72.16	13932	68.96	13987	67.26	14026	80.06
14061	80	14062	86.9	14072	86.9	14073	80.9
14133	81.36	14185	79.86	14201	82.46	14208	81.36
14241	71.36	14249	71.76	14257	74.86	14261	74.86
14299	52.36	14301	51.46	14321	46.76	14341	45.36
14381	43.76	14401	45.06	14421	47.26	14431	49.36
14444	55.36	14461	68.36	14478	78.46	14492	70.86
14601	66.76	14629	69.06	14664	74.56	14745	76.26
14852	72.96	14930	73.16	14995	71.46	15089	69.36
15193	67.16	15258	68.36	15296	70.66	15341	71.26
15465	65.96	15493	69.46	15564	72.26	15629	74.36
15766	75.16	15834	74.56	15914	73.06	15960	69.26
16012	74.56	16097	75.86	16258	98.26	16315	116.46
16430	126.86	16480	127.96	16532	125.86	16584	125.46
16642	123.46	16671	123.96			16620	123.46

Manning's n values		num= 3	
Sta	n Val	Sta	n Val
10000	.25	14281	.05
		14461	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	14281	14461		2100 1950	1300	.1	.3

CROSS SECTION

RIVER: Suwannee

REACH: UpstreamEnd

RS: 169.49

INPUT

Description: 18-2S-16-01650-002, Downstream lot

Station Elevation Data				num= 102			
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66
11534	75.46	11592	75.76	11762	75.46	11854	74.86
12039	75.66	12090	76.36	12219	74.36	12353	72.46
12635	81.56	12675	81.56	12730	82.36	12822	81.36
12984	74.26	13066	69.16	13138	63.26	13229	62.26
13428	64.86	13485	67.56	13562	70.36	13611	70.06
13731	72.16	13932	68.96	13987	67.26	14026	80.06
14088	81.26	14133	81.36	14159	82	14160	81.9
14171	81.9	14185	79.86	14201	82.46	14208	81.36
14241	71.36	14249	71.76	14257	74.86	14261	74.86
14299	52.36	14301	51.46	14321	46.76	14341	45.36
14381	43.76	14401	45.06	14421	47.26	14431	49.36
14444	55.36	14461	68.36	14478	78.46	14492	70.86
14601	66.76	14629	69.06	14664	74.56	14745	76.26
14852	72.96	14930	73.16	14995	71.46	15089	69.36
15193	67.16	15258	68.36	15296	70.66	15341	71.26
15465	65.96	15493	69.46	15564	72.26	15629	74.36
15766	75.16	15834	74.56	15914	73.06	15960	69.26
16012	74.56	16097	75.86	16258	98.26	16315	116.46
16430	126.86	16480	127.96	16532	125.86	16584	125.46
						16620	123.46



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16642 123.46 16671 123.96

Manning's n Values num= 3  
Sta n Val Sta n Val Sta n Val  
10000 .25 14281 .05 14461 .25

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
14281 14461 2100 1950 1300 .1 .3

CROSS SECTION

RIVER: Suwannee  
REACH: UpstreamEnd RS: 169.35

INPUT  
Description: 169.35

Station Elevation Data		num= 98							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66	11389	73.96
11534	75.46	11592	75.76	11762	75.46	11854	74.86	11986	75.26
12039	75.66	12090	76.36	12219	74.36	12353	72.46	12528	80.76
12635	81.56	12675	81.56	12730	82.36	12822	81.36	12897	77.16
12984	74.26	13066	69.16	13138	63.26	13229	62.26	13357	62.96
13428	64.86	13485	67.56	13562	70.36	13611	70.06	13669	73.56
13731	72.16	13932	68.96	13987	67.26	14026	80.06	14058	81.06
14088	81.26	14133	81.36	14185	79.86	14201	82.46	14208	81.36
14221	77.26	14241	71.36	14249	71.76	14257	74.86	14261	74.86
14281	68.76	14299	52.36	14301	51.46	14321	46.76	14341	45.36
14361	46.26	14381	43.76	14401	45.06	14421	47.26	14431	49.36
14436	52.36	14444	55.36	14461	68.36	14478	78.46	14492	70.86
14541	70.86	14601	66.76	14629	69.06	14664	74.56	14745	76.26
14786	73.66	14852	72.96	14930	73.16	14995	71.46	15089	69.36
15134	68.26	15193	67.16	15258	68.36	15296	70.66	15341	71.26
15402	68.56	15465	65.96	15493	69.46	15564	72.26	15629	74.36
15696	74.96	15766	75.16	15834	74.56	15914	73.06	15960	69.26
15988	70.16	16012	74.56	16097	75.86	16258	98.26	16315	116.46
16380	124.66	16430	126.86	16480	127.96	16532	125.86	16584	125.46
16620	123.46	16642	123.46	16671	123.96				

Manning's n Values num= 3  
Sta n Val Sta n Val Sta n Val  
10000 .25 14281 .05 14461 .25

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
14281 14461 2100 1950 1300 .1 .3

CROSS SECTION

RIVER: Suwannee  
REACH: UpstreamEnd RS: 168.98

INPUT  
Description: 168.98  
This is a REPEATED section.

Station Elevation Data		num= 99							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	95.46	10146	92.96	10485	91.96	10576	91.26	10660	92.56
10724	92.56	10796	92.86	10931	91.26	11114	90.86	11248	90.26
11317	91.56	11366	91.86	11420	91.76	11472	90.76	11502	82.36

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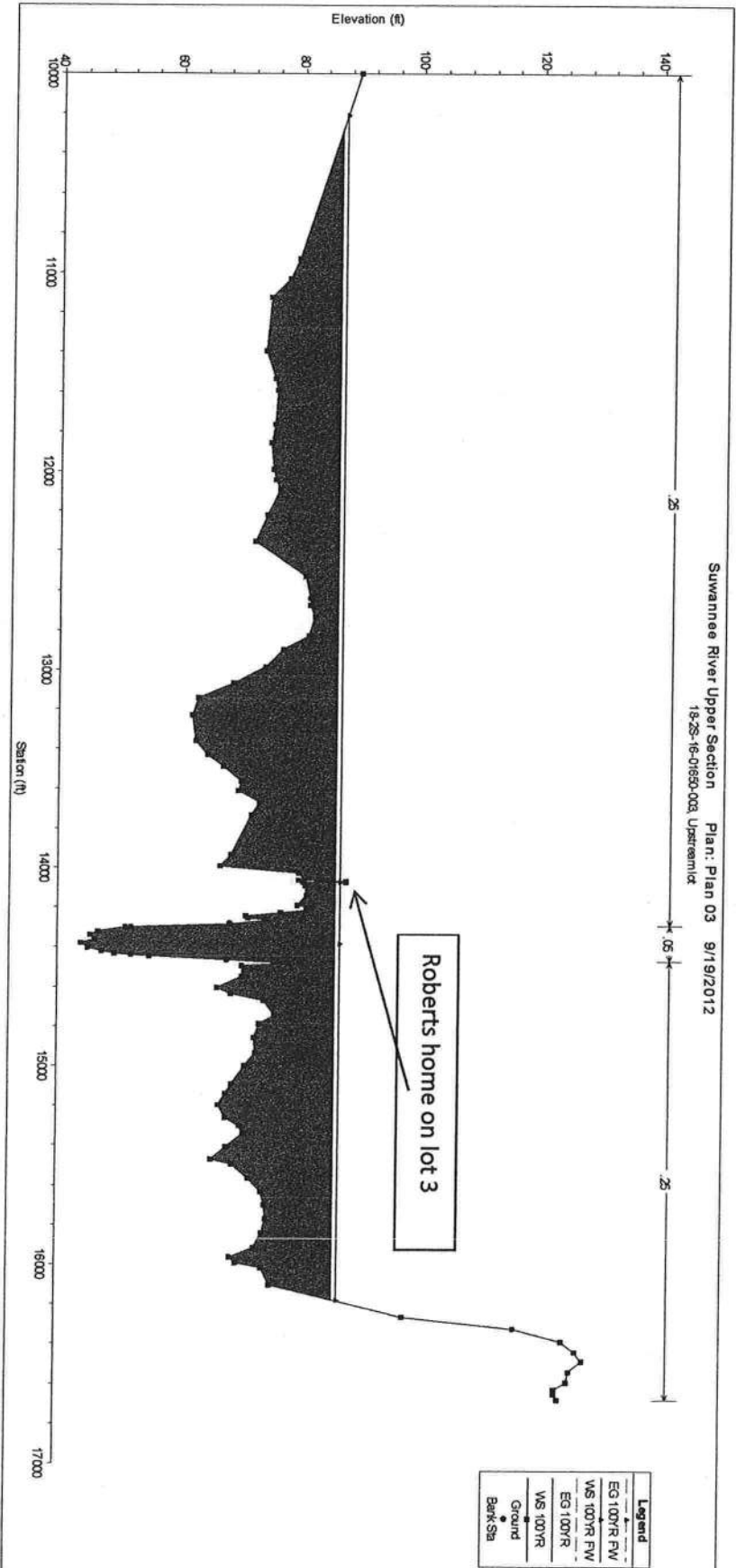
11582	75.06	11643	71.96	11952	71.76	11996	72.16	12444	72.26
12870	73.46	13289	73.36	13435	71.56	13607	72.66	13687	66.56
13799	72.06	14014	73.86	14170	71.16	14331	72.86	14501	72.86
14661	75.06	14878	73.96	15133	73.46	15322	73.76	15616	74.86
15883	74.16	16135	74.46	16381	74.16	16482	75.26	16703	71.56
16815	71.36	16948	73.26	17119	73.26	17193	72.76	17344	73.86
17513	73.86	17771	74.86	17957	77.76	18124	75.26	18394	74.26
18740	75.26	18802	76.36	19016	76.86	19129	76.56	19197	75.26
19239	74.86	19462	75.26	19648	75.46	19744	75.26	20019	77.26
20072	77.36	20111	77.26	20404	75.36	20500	75.46	20681	77.26
20779	77.86	20872	79.26	21038	75.26	21106	73.26	21176	73.26
21225	74.26	21261	75.26	21445	75.26	21592	78.56	21669	69.26
21686	92.66	21716	77.76	21718	78.06	21738	71.26	21754	65.86
21776	52.16	21786	48.36	21826	45.56	21846	44.76	21866	49.06
21876	52.16	21879	57.46	21899	68.66	21906	68.36	21919	73.46
21926	73.66	21946	75.36	21966	77.86	21986	82.16	22036	103.66
22076	108.66	22096	110.26	22116	111.26	22332	114.26		

Manning's	n Values		num=	3	
Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	21754	.05	21899	.25

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	21754	21899		53	53	53		.1	.3



Savannah River Upper Section Plan: Plan 03 8/19/2012  
 18-25-16-01630-003 Upstream to







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Existing Conditions  
HEC-RAS Version 4.1.0 Jan 2010  
U.S. Army Corps of Engineers  
Hydrologic Engineering Center  
609 Second Street  
Davis, California

```
X      X  XXXXXX  XXXX      XXXX      XX      XXXX
X      X  X      X      X      X  X  X      X
X      X  X      X      X      X  X  X      X
XXXXXXXX XXXX      X      XXX XXXX      XXXXXX      XXXX
X      X  X      X      X      X  X      X      X
X      X  X      X      X      X  X      X      X
X      X  XXXXXX  XXXX      X      X      X      X      XXXXX
```

#### PROJECT DATA

Project Title: Suwannee River Upper Section

Project File : Suwannee.prj

Run Date and Time: 9/18/2012 2:44:34 PM

Project in English units

#### Project Description:

Suwannee River Floodplain model. Converted to HEC-RAS bridge routines by Dewberry 6-31-06.

Model uses fixed starting elevations for multi-profile and floodway runs at section 127.49 which ties in to the revised HEC-RAS model produced for Dixie, Gilchrist and Lafayette County DFIRMS produced in 2005 by Dewberry and URS.

Datum conversions were performed as follows to convert the entire model from NGVD29 to NAVD88:

Alapaha (entirely Hamilton County) -0.76

Withlacoochee (Madison and Hamilton Counties)  $(-0.7+(-0.76))/2$   
= -0.73

Suwannee Reaches:  
WtoSF (mile 127.49-Withlacoochee) (Madison and Suwannee Counties)  
 $(-0.72+(-0.7))/2 = -0.71$

Alatow (Alapaha to Withlacoochee) (Suwannee and Hamilton Counties)  
 $(-0.72+(-0.76))/2 = -0.74$

UpstreamEnd (State Line to Alapaha) (Hamilton, Suwannee and Columbia Counties)  
 $(-0.76+(-0.72)+(-0.84))/3 = -0.77$

SRWMD Floodway runs have been merged into plan file to create 1 HEC-RAS model. Where necessary, the cross section stations were shifted by a constant amount and the encroachment

*Daniel Stupp*  
19 Sept 2012

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stations were adjusted accordingly to align with internal bridge sections and give correct results for HEC-RAS version 3.1.3 floodway modeling through bridges.

#### PLAN DATA

Plan Title: FLOODWAY

Plan File : C:\Users\David\hec\HEC-RAS Model\Suwannee.p02

Geometry Title: Suwannee River

Geometry File : C:\Users\David\hec\HEC-RAS Model\Suwannee.g01

Flow Title : Floodway Flows

Flow File : C:\Users\David\hec\HEC-RAS Model\Suwannee.f02

#### Plan Summary Information:

Number of: Cross Sections	= 202	Multiple Openings	= 0
Culverts	= 0	Inline Structures	= 0
Bridges	= 14	Lateral Structures	= 0

#### Computational Information

Water surface calculation tolerance	= 0.01
Critical depth calculation tolerance	= 0.01
Maximum number of iterations	= 20
Maximum difference tolerance	= 0.3
Flow tolerance factor	= 0.001

#### Computation Options

Critical depth computed only where necessary  
Conveyance Calculation Method: At breaks in n values only  
Friction Slope Method: Average Conveyance  
Computational Flow Regime: Subcritical Flow

#### CROSS SECTION

RIVER: Suwannee

REACH: UpstreamEnd RS: 169.8

#### INPUT

Description: 169.8

#### X-SECTION IDENTIFICATION WII88

Station Elevation Data				num=	81				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	102.16	10072	102.06	10100	100.96	10174	101.26	10225	101.16
10308	100.16	10413	99.36	10495	99.56	10583	99.46	10744	99.16
10825	99.36	10905	99.06	11006	98.36	11112	98.16	11196	97.46
11280	97.76	11360	97.16	11517	96.86	11584	95.56	11653	92.16
11656	84.46	11669	82.66	11685	74.36	11696	56.66	11706	52.66
11716	49.56	11736	46.36	11756	42.56	11776	42.26	11796	46.56
11801	47.96	11804	52.66	11818	62.16	11846	76.76	11857	74.66
11864	74.86	11888	80.66	11901	77.06	11923	77.16	11976	77.06
12007	76.56	12044	76.06	12113	76.36	12172	75.76	12236	76.06
12290	76.46	12414	77.46	12600	76.86	12666	76.06	12782	72.56
12852	70.36	13016	69.96	13049	73.26	13103	73.86	13187	72.76
13349	72.16	13401	73.86	13463	73.56	13631	73.96	13808	74.86

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13873	76.86	13946	77.56	14028	76.56	14095	75.56	14170	75.56
14218	75.66	14280	75.46	14329	75.46	14404	75.16	14487	75.06
14536	74.96	14599	75.56	14668	76.16	14774	77.96	14880	86.16
15060	98.36	15213	116.06	15404	117.96	15577	116.16	15594	117.26
15615	117.36								

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	11685	.05	11846	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	11685	11846		1000 825	900		.1	.3

CROSS SECTION

RIVER: Suwannee  
REACH: UpstreamEnd RS: 169.65

INPUT  
Description: 169.65

Station Elevation Data			num=		94				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	91.56	10047	92.06	10070	95.86	10134	95.46	10191	96.16
10343	96.06	10416	94.76	10580	93.56	10608	89.96	10633	90.46
10736	78.96	10849	72.56	11174	62.26	11196	72.06	11241	76.46
11289	79.96	11346	83.16	11397	85.26	11419	89.06	11490	90.36
11568	90.66	11627	91.66	11674	91.36	11719	92.16	11776	91.76
11837	91.26	11890	93.26	11956	92.96	12001	92.96	12012	94.36
12080	94.36	12158	94.26	12234	93.36	12249	88.26	12269	80.56
12289	73.76	12312	71.06	12318	68.16	12328	54.36	12333	52.56
12334	52.26	12354	45.56	12374	46.36	12394	46.46	12414	47.16
12434	49.16	12443	52.56	12457	69.26	12480	76.16	12675	68.66
12720	67.06	12746	68.56	12764	69.76	12801	69.66	12809	69.86
12846	69.66	12904	69.06	12984	68.46	13049	67.96	13058	67.96
13144	70.06	13203	72.36	13245	72.46	13308	75.56	13351	70.46
13378	74.06	13432	73.36	13495	72.06	13633	72.06	13736	71.96
13850	73.56	13919	73.76	13975	74.46	14035	73.36	14116	73.06
14158	71.66	14572	72.36	14616	71.96	14651	72.26	14696	72.56
14710	75.46	14741	79.26	14774	84.66	14822	89.16	14859	104.76
14924	115.96	14958	122.56	14987	128.36	15021	129.66	15057	128.76
15102	127.56	15153	125.96	15180	124.16	15207	124.16		

Manning's n Values		num=		4			
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
10000	.99	12249	.25	12318	.05	12457	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	12318	12457		1750 1550	1000		.1	.3

CROSS SECTION

RIVER: Suwannee  
REACH: UpstreamEnd RS: 169.50

INPUT  
Description: 18-2S-16-01650-003, Upstream lot

Station Elevation Data		num=		98					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66	11389	73.96
11534	75.46	11592	75.76	11762	75.46	11854	74.86	11986	75.26



lot2existing.rep

12039	75.66	12090	76.36	12219	74.36	12353	72.46	12528	80.76
12635	81.56	12675	81.56	12730	82.36	12822	81.36	12897	77.16
12984	74.26	13066	69.16	13138	63.26	13229	62.26	13357	62.96
13428	64.86	13485	67.56	13562	70.36	13611	70.06	13669	73.56
13731	72.16	13932	68.96	13987	67.26	14026	80.06	14058	81.06
14088	81.26	14133	81.36	14185	79.86	14201	82.46	14208	81.36
14221	77.26	14241	71.36	14249	71.76	14257	74.86	14261	74.86
14281	68.76	14299	52.36	14301	51.46	14321	46.76	14341	45.36
14361	46.26	14381	43.76	14401	45.06	14421	47.26	14431	49.36
14436	52.36	14444	55.36	14461	68.36	14478	78.46	14492	70.86
14541	70.86	14601	66.76	14629	69.06	14664	74.56	14745	76.26
14786	73.66	14852	72.96	14930	73.16	14995	71.46	15089	69.36
15134	68.26	15193	67.16	15258	68.36	15296	70.66	15341	71.26
15402	68.56	15465	65.96	15493	69.46	15564	72.26	15629	74.36
15696	74.96	15766	75.16	15834	74.56	15914	73.06	15960	69.26
15988	70.16	16012	74.56	16097	75.86	16258	98.26	16315	116.46
16380	124.66	16430	126.86	16480	127.96	16532	125.86	16584	125.46
16620	123.46	16642	123.46	16671	123.96				

Manning's n Values  
 Sta n Val Sta n Val num= 3  
 10000 .25 14281 .05 14461 .25

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.  
 14281 14461 2100 1950 1300 .1 .3

CROSS SECTION

RIVER: Suwannee  
 REACH: UpstreamEnd RS: 169.49

INPUT  
 Description: 18-2S-16-01650-002, Downstream lot  
 Station Elevation Data num= 102

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66	11389	73.96
11534	75.46	11592	75.76	11762	75.46	11854	74.86	11986	75.26
12039	75.66	12090	76.36	12219	74.36	12353	72.46	12528	80.76
12635	81.56	12675	81.56	12730	82.36	12822	81.36	12897	77.16
12984	74.26	13066	69.16	13138	63.26	13229	62.26	13357	62.96
13428	64.86	13485	67.56	13562	70.36	13611	70.06	13669	73.56
13731	72.16	13932	68.96	13987	67.26	14026	80.06	14058	81.06
14088	81.26	14133	81.36	14159	82	14160	81.9	14170	81.8
14171	81.9	14185	79.86	14201	82.46	14208	81.36	14221	77.26
14241	71.36	14249	71.76	14257	74.86	14261	74.86	14281	68.76
14299	52.36	14301	51.46	14321	46.76	14341	45.36	14361	46.26
14381	43.76	14401	45.06	14421	47.26	14431	49.36	14436	52.36
14444	55.36	14461	68.36	14478	78.46	14492	70.86	14541	70.86
14601	66.76	14629	69.06	14664	74.56	14745	76.26	14786	73.66
14852	72.96	14930	73.16	14995	71.46	15089	69.36	15134	68.26
15193	67.16	15258	68.36	15296	70.66	15341	71.26	15402	68.56
15465	65.96	15493	69.46	15564	72.26	15629	74.36	15696	74.96
15766	75.16	15834	74.56	15914	73.06	15960	69.26	15988	70.16
16012	74.56	16097	75.86	16258	98.26	16315	116.46	16380	124.66
16430	126.86	16480	127.96	16532	125.86	16584	125.46	16620	123.46
16642	123.46	16671	123.96						

Manning's n Values  
 Sta n Val Sta n Val num= 3  
 10000 .25 14281 .05 14461 .25

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

14281 14461

lot2existing.rep

2100 1950 1300

.1

.3

## CROSS SECTION

RIVER: Suwannee  
REACH: UpstreamEnd

RS: 169.35

INPUT  
Description: 169.35

Station Elevation Data				num=	98				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66	11389	73.96
11534	75.46	11592	75.76	11762	75.46	11854	74.86	11986	75.26
12039	75.66	12090	76.36	12219	74.36	12353	72.46	12528	80.76
12635	81.56	12675	81.56	12730	82.36	12822	81.36	12897	77.16
12984	74.26	13066	69.16	13138	63.26	13229	62.26	13357	62.96
13428	64.86	13485	67.56	13562	70.36	13611	70.06	13669	73.56
13731	72.16	13932	68.96	13987	67.26	14026	80.06	14058	81.06
14088	81.26	14133	81.36	14185	79.86	14201	82.46	14208	81.36
14221	77.26	14241	71.36	14249	71.76	14257	74.86	14261	74.86
14281	68.76	14299	52.36	14301	51.46	14321	46.76	14341	45.36
14361	46.26	14381	43.76	14401	45.06	14421	47.26	14431	49.36
14436	52.36	14444	55.36	14461	68.36	14478	78.46	14492	70.86
14541	70.86	14601	66.76	14629	69.06	14664	74.56	14745	76.26
14786	73.66	14852	72.96	14930	73.16	14995	71.46	15089	69.36
15134	68.26	15193	67.16	15258	68.36	15296	70.66	15341	71.26
15402	68.56	15465	65.96	15493	69.46	15564	72.26	15629	74.36
15696	74.96	15766	75.16	15834	74.56	15914	73.06	15960	69.26
15988	70.16	16012	74.56	16097	75.86	16258	98.26	16315	116.46
16380	124.66	16430	126.86	16480	127.96	16532	125.86	16584	125.46
16620	123.46	16642	123.46	16671	123.96				

Manning's n Values				num=	3
Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	14281	.05	14461	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	14281	14461		2100 1950	1300		.1	.3

## CROSS SECTION

RIVER: Suwannee  
REACH: UpstreamEnd

RS: 168.98

INPUT  
Description: 168.98  
This is a REPEATED section.

Station Elevation Data				num=	99				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	95.46	10146	92.96	10485	91.96	10576	91.26	10660	92.56
10724	92.56	10796	92.86	10931	91.26	11114	90.86	11248	90.26
11317	91.56	11366	91.86	11420	91.76	11472	90.76	11502	82.36
11582	75.06	11643	71.96	11952	71.76	11996	72.16	12444	72.26
12870	73.46	13289	73.36	13435	71.56	13607	72.66	13687	66.56
13799	72.06	14014	73.86	14170	71.16	14331	72.86	14501	72.86
14661	75.06	14878	73.96	15133	73.46	15322	73.76	15616	74.86
15883	74.16	16135	74.46	16381	74.16	16482	75.26	16703	71.56
16815	71.36	16948	73.26	17119	73.26	17193	72.76	17344	73.86
17513	73.86	17771	74.86	17957	77.76	18124	75.26	18394	74.26

tot2existing.rep

18740	75.26	18802	76.36	19016	76.86	19129	76.56	19197	75.26
19239	74.86	19462	75.26	19648	75.46	19744	75.26	20019	77.26
20072	77.36	20111	77.26	20404	75.36	20500	75.46	20681	77.26
20779	77.86	20872	79.26	21038	75.26	21106	73.26	21176	73.26
21225	74.26	21261	75.26	21445	75.26	21592	78.56	21669	69.26
21686	92.66	21716	77.76	21718	78.06	21738	71.26	21754	65.86
21776	52.16	21786	48.36	21826	45.56	21846	44.76	21866	49.06
21876	52.16	21879	57.46	21899	68.66	21906	68.36	21919	73.46
21926	73.66	21946	75.36	21966	77.86	21986	82.16	22036	103.66
22076	108.66	22096	110.26	22116	111.26	22332	114.26		

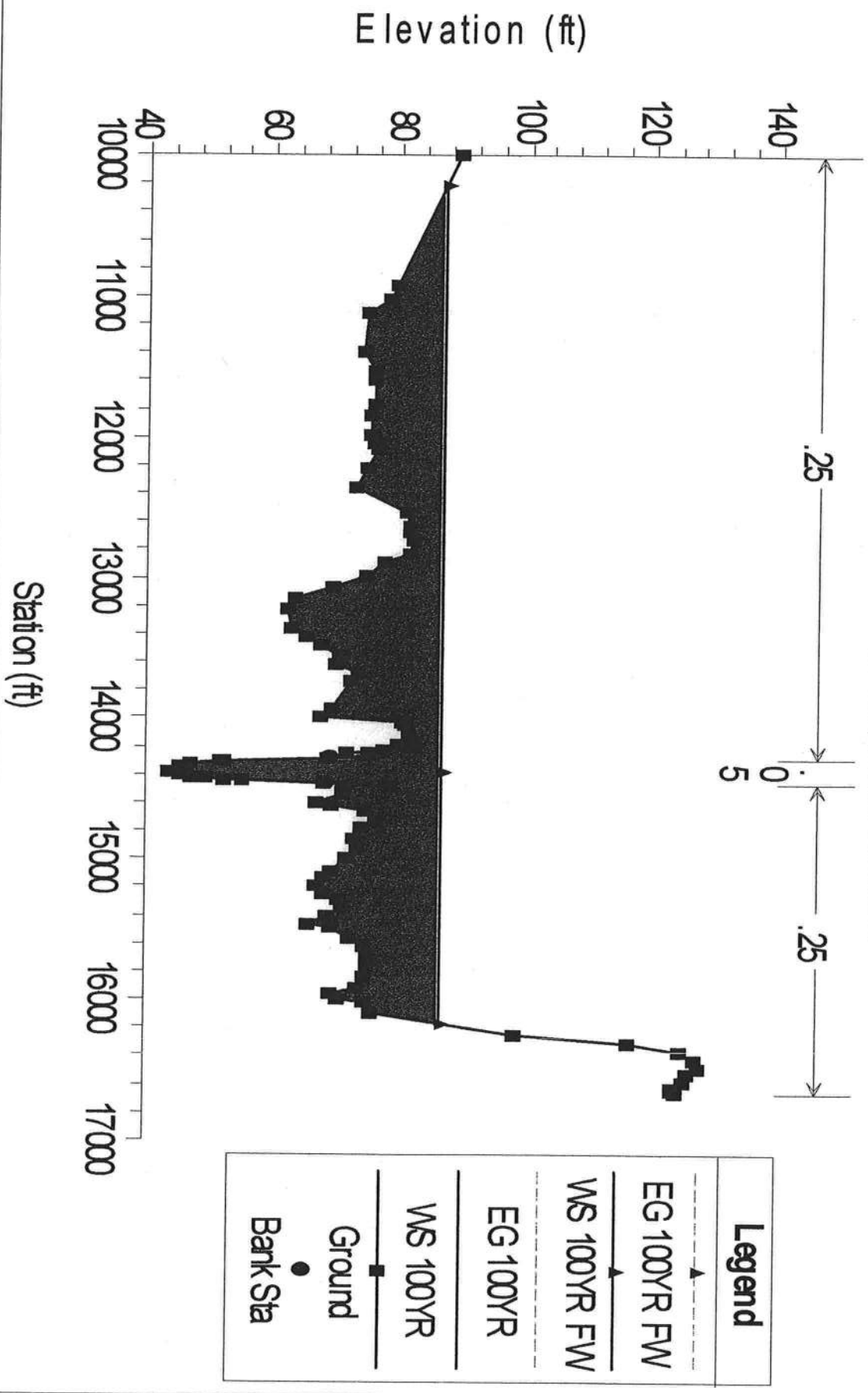
Manning's	n Values		num=	3	
Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	21754	.05	21899	.25

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	21754	21899		53	53	53		.1	.3



# Suwannee River Upper Section      Plan: FLOODWAY      9/18/2012

18-2S-16-01650-002, Downstream lot



Proposed Conditions Input  
 HEC-RAS Version 4.1.0 Jan 2010  
 U.S. Army Corps of Engineers  
 Hydrologic Engineering Center  
 609 Second Street  
 Davis, California

X	X	XXXXXX	XXXX	XXXX	XX	XXXX
X	X	X	X	X	X	X
X	X	X	X	X	X	X
XXXXXXXX	XXXX	X	XXX	XXXX	XXXXXX	XXXX
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	XXXXXX	XXXX	X	X	XXXX

PROJECT DATA

Project Title: Suwannee River Upper Section

Project File : Suwannee.prj

Run Date and Time: 9/18/2012 12:36:06 PM

Project in English units

Project Description:

Suwannee River Floodplain model. Converted to HEC-RAS bridge routines by Dewberry 6-31-06.

Model uses fixed starting elevations for multi-profile and floodway runs at section 127.49 which ties in to the revised HEC-RAS model produced for Dixie, Gilchrist and Lafayette County DFIRMs produced in 2005 by Dewberry and URS.

Datum conversions were performed as follows to convert the entire model from NGVD29 to NAVD88:

Alapaha (entirely Hamilton County) -0.76

Withlacoochee (Madison and Hamilton Counties)  $(-0.7 + -0.76)/2$   
 = - 0.73

Suwannee Reaches:

WtoSF (mile 127.49-Withlacoochee) (Madison and Suwannee Counties)  
 $(-0.72 + -0.7)/2 = -0.71$

AlatoW (Alapaha to Withlacoochee) (Suwannee and Hamilton Counties)  
 $(-0.72 + -0.76)/2$   
 = -0.74

UpstreamEnd (State Line to Alapaha) (Hamilton, Suwannee and Columbia Counties)  
 $(-0.76 + -0.72 + -0.84)/3 = -0.77$

SRWMD Floodway runs have been

merged into plan file to create 1 HEC-RAS model. Where necessary, the cross section stations were shifted by a constant amount and the encroachment stations were adjusted accordingly to align with internal bridge sections and give correct results for HEC-RAS version 3.1.3 floodway modeling through bridges.

#### GEOMETRY DATA

Geometry Title: Suwannee River

Geometry File : C:\Users\David\hec\HEC-RAS Model\Suwannee.g01

#### Reach Connection Table

River	Reach	Upstream Boundary	Downstream Boundary
Alapaha	Main		Alapaha
Suwannee	UpstreamEnd		Alapaha
Suwannee	AlatoW	Alapaha	With
Suwannee	WtoSF	With	
Withlacoochee	Main		With

#### JUNCTION INFORMATION

Name: With

Description: Withlacoochee confluence with Suwannee

Energy computation Method

Length across Junction		Tributary		
River	Reach	River	Reach	Length
Angle				
Suwannee	AlatoW	to Suwannee	WtoSF	6980
Withlacoochee	Main	to Suwannee	WtoSF	11044

#### CROSS SECTION

RIVER: Suwannee

REACH: UpstreamEnd RS: 169.8

#### INPUT

Description: 169.8

#### X-SECTION IDENTIFICATION WII88

Station Elevation Data				num=	81				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	102.16	10072	102.06	10100	100.96	10174	101.26	10225	101.16
10308	100.16	10413	99.36	10495	99.56	10583	99.46	10744	99.16
10825	99.36	10905	99.06	11006	98.36	11112	98.16	11196	97.46
11280	97.76	11360	97.16	11517	96.86	11584	95.56	11653	92.16
11656	84.46	11669	82.66	11685	74.36	11696	56.66	11706	52.66
11716	49.56	11736	46.36	11756	42.56	11776	42.26	11796	46.56
11801	47.96	11804	52.66	11818	62.16	11846	76.76	11857	74.66
11864	74.86	11888	80.66	11901	77.06	11923	77.16	11976	77.06



12007	76.56	12044	76.06	12113	76.36	12172	75.76	12236	76.06
12290	76.46	12414	77.46	12600	76.86	12666	76.06	12782	72.56
12852	70.36	13016	69.96	13049	73.26	13103	73.86	13187	72.76
13349	72.16	13401	73.86	13463	73.56	13631	73.96	13808	74.86
13873	76.86	13946	77.56	14028	76.56	14095	75.56	14170	75.56
14218	75.66	14280	75.46	14329	75.46	14404	75.16	14487	75.06
14536	74.96	14599	75.56	14668	76.16	14774	77.96	14880	86.16
15060	98.36	15213	116.06	15404	117.96	15577	116.16	15594	117.26
15615	117.36								

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	11685	.05	11846	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	11685	11846		1000	825		.1	.3

CROSS SECTION

RIVER: Suwannee  
 REACH: UpstreamEnd RS: 169.65

INPUT  
 Description: 169.65

Station Elevation Data		num=		94					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	91.56	10047	92.06	10070	95.86	10134	95.46	10191	96.16
10343	96.06	10416	94.76	10580	93.56	10608	89.96	10633	90.46
10736	78.96	10849	72.56	11174	62.26	11196	72.06	11241	76.46
11289	79.96	11346	83.16	11397	85.26	11419	89.06	11490	90.36
11568	90.66	11627	91.66	11674	91.36	11719	92.16	11776	91.76
11837	91.26	11890	93.26	11956	92.96	12001	92.96	12012	94.36
12080	94.36	12158	94.26	12234	93.36	12249	88.26	12269	80.56
12289	73.76	12312	71.06	12318	68.16	12328	54.36	12333	52.56
12334	52.26	12354	45.56	12374	46.36	12394	46.46	12414	47.16
12434	49.16	12443	52.56	12457	69.26	12480	76.16	12675	68.66
12720	67.06	12746	68.56	12764	69.76	12801	69.66	12809	69.86
12846	69.66	12904	69.06	12984	68.46	13049	67.96	13058	67.96
13144	70.06	13203	72.36	13245	72.46	13308	75.56	13351	70.46
13378	74.06	13432	73.36	13495	72.06	13633	72.06	13736	71.96
13850	73.56	13919	73.76	13975	74.46	14035	73.36	14116	73.06
14158	71.66	14572	72.36	14616	71.96	14651	72.26	14696	72.56
14710	75.46	14741	79.26	14774	84.66	14822	89.16	14859	104.76
14924	115.96	14958	122.56	14987	128.36	15021	129.66	15057	128.76
15102	127.56	15153	125.96	15180	124.16	15207	124.16		

Manning's n Values		num=		4			
Sta	n Val	Sta	n Val	Sta	n Val		
10000	.99	12249	.25	12318	.05	12457	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	12318	12457		1750	1550		.1	.3

CROSS SECTION

RIVER: Suwannee  
 REACH: UpstreamEnd RS: 169.50

## INPUT

Description: 18-2S-16-01650-003, Upstream lot

Station Elevation Data				num= 98					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66	11389	73.96
11534	75.46	11592	75.76	11762	75.46	11854	74.86	11986	75.26
12039	75.66	12090	76.36	12219	74.36	12353	72.46	12528	80.76
12635	81.56	12675	81.56	12730	82.36	12822	81.36	12897	77.16
12984	74.26	13066	69.16	13138	63.26	13229	62.26	13357	62.96
13428	64.86	13485	67.56	13562	70.36	13611	70.06	13669	73.56
13731	72.16	13932	68.96	13987	67.26	14026	80.06	14058	81.06
14088	81.26	14133	81.36	14185	79.86	14201	82.46	14208	81.36
14221	77.26	14241	71.36	14249	71.76	14257	74.86	14261	74.86
14281	68.76	14299	52.36	14301	51.46	14321	46.76	14341	45.36
14361	46.26	14381	43.76	14401	45.06	14421	47.26	14431	49.36
14436	52.36	14444	55.36	14461	68.36	14478	78.46	14492	70.86
14541	70.86	14601	66.76	14629	69.06	14664	74.56	14745	76.26
14786	73.66	14852	72.96	14930	73.16	14995	71.46	15089	69.36
15134	68.26	15193	67.16	15258	68.36	15296	70.66	15341	71.26
15402	68.56	15465	65.96	15493	69.46	15564	72.26	15629	74.36
15696	74.96	15766	75.16	15834	74.56	15914	73.06	15960	69.26
15988	70.16	16012	74.56	16097	75.86	16258	98.26	16315	116.46
16380	124.66	16430	126.86	16480	127.96	16532	125.86	16584	125.46
16620	123.46	16642	123.46	16671	123.96				

## Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	14281	.05	14461	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	14281	14461		2100 1950	1300		.1	.3

## CROSS SECTION

RIVER: Suwannee

REACH: UpstreamEnd

RS: 169.49

## INPUT

Description: 18-2S-16-01650-002, Downstream lot

Station Elevation Data				num= 102					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66	11389	73.96
11534	75.46	11592	75.76	11762	75.46	11854	74.86	11986	75.26
12039	75.66	12090	76.36	12219	74.36	12353	72.46	12528	80.76
12635	81.56	12675	81.56	12730	82.36	12822	81.36	12897	77.16
12984	74.26	13066	69.16	13138	63.26	13229	62.26	13357	62.96
13428	64.86	13485	67.56	13562	70.36	13611	70.06	13669	73.56
13731	72.16	13932	68.96	13987	67.26	14026	80.06	14058	81.06
14088	81.26	14133	81.36	14159	82	14160	86.9	14170	86.9
14171	81.9	14185	79.86	14201	82.46	14208	81.36	14221	77.26
14241	71.36	14249	71.76	14257	74.86	14261	74.86	14281	68.76
14299	52.36	14301	51.46	14321	46.76	14341	45.36	14361	46.26
14381	43.76	14401	45.06	14421	47.26	14431	49.36	14436	52.36
14444	55.36	14461	68.36	14478	78.46	14492	70.86	14541	70.86
14601	66.76	14629	69.06	14664	74.56	14745	76.26	14786	73.66
14852	72.96	14930	73.16	14995	71.46	15089	69.36	15134	68.26
15193	67.16	15258	68.36	15296	70.66	15341	71.26	15402	68.56
15465	65.96	15493	69.46	15564	72.26	15629	74.36	15696	74.96

15766	75.16	15834	74.56	15914	73.06	15960	69.26	15988	70.16
16012	74.56	16097	75.86	16258	98.26	16315	116.46	16380	124.66
16430	126.86	16480	127.96	16532	125.86	16584	125.46	16620	123.46
16642	123.46	16671	123.96						

Manning's n Values			num= 3		
Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	14281	.05	14461	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	14281	14461		2100 1950	1300		.1	.3

CROSS SECTION

RIVER: Suwannee  
 REACH: UpstreamEnd RS: 169.35

INPUT  
 Description: 169.35

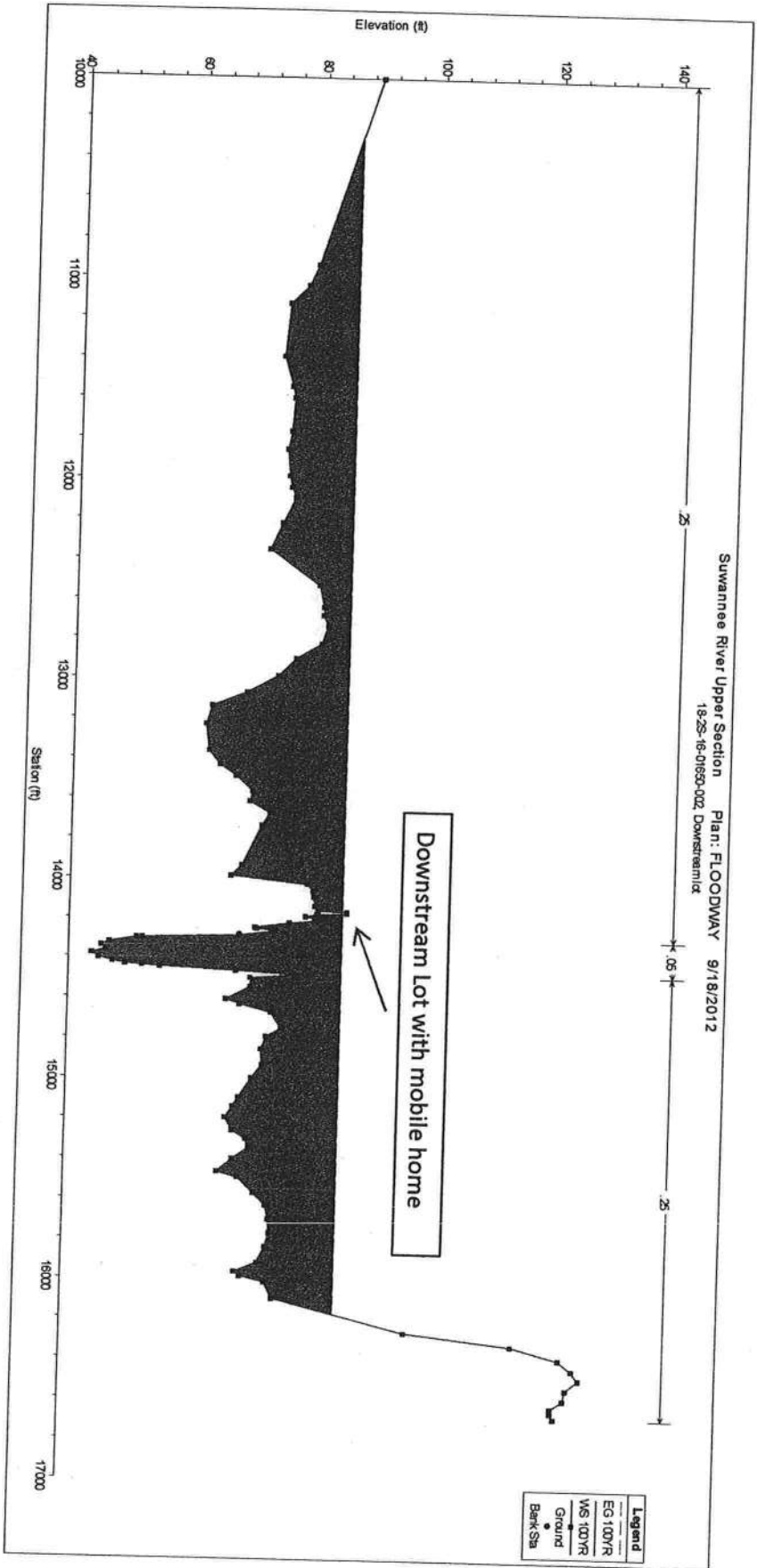
Station Elevation Data				num= 98					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66	11389	73.96
11534	75.46	11592	75.76	11762	75.46	11854	74.86	11986	75.26
12039	75.66	12090	76.36	12219	74.36	12353	72.46	12528	80.76
12635	81.56	12675	81.56	12730	82.36	12822	81.36	12897	77.16
12984	74.26	13066	69.16	13138	63.26	13229	62.26	13357	62.96
13428	64.86	13485	67.56	13562	70.36	13611	70.06	13669	73.56
13731	72.16	13932	68.96	13987	67.26	14026	80.06	14058	81.06
14088	81.26	14133	81.36	14185	79.86	14201	82.46	14208	81.36
14221	77.26	14241	71.36	14249	71.76	14257	74.86	14261	74.86
14281	68.76	14299	52.36	14301	51.46	14321	46.76	14341	45.36
14361	46.26	14381	43.76	14401	45.06	14421	47.26	14431	49.36
14436	52.36	14444	55.36	14461	68.36	14478	78.46	14492	70.86
14541	70.86	14601	66.76	14629	69.06	14664	74.56	14745	76.26
14786	73.66	14852	72.96	14930	73.16	14995	71.46	15089	69.36
15134	68.26	15193	67.16	15258	68.36	15296	70.66	15341	71.26
15402	68.56	15465	65.96	15493	69.46	15564	72.26	15629	74.36
15696	74.96	15766	75.16	15834	74.56	15914	73.06	15960	69.26
15988	70.16	16012	74.56	16097	75.86	16258	98.26	16315	116.46
16380	124.66	16430	126.86	16480	127.96	16532	125.86	16584	125.46
16620	123.46	16642	123.46	16671	123.96				

Manning's n Values			num= 3		
Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	14281	.05	14461	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	14281	14461		2100 1950	1300		.1	.3



Suwannee River Upper Section Plan: FLOODWAY 9/18/2012  
18-2S-16-01650-002, Downstreamix



# Robert\_lot3\_pre.rep

Existing Conditions, Lot 3  
 HEC-RAS Version 4.1.0 Jan 2010  
 U.S. Army Corps of Engineers  
 Hydrologic Engineering Center  
 609 Second Street  
 Davis, California

```

X      X  XXXXXX  XXXX      XXXX      XX      XXXX
X      X  X      X      X      X      X      X
X      X  X      X      X      X      X      X
XXXXXXXX XXXX      X      XXX XXXX      XXXXXX  XXXX
X      X  X      X      X      X      X      X
X      X  X      X      X      X      X      X
X      X  XXXXXX  XXXX      X      X      X      XXXXX
  
```

## PROJECT DATA

Project Title: Suwannee River Upper Section

Project File : Suwannee.prj

Run Date and Time: 9/19/2012 9:04:03 AM

Project in English units

## Project Description:

Suwannee River Floodplain model. Converted to HEC-RAS bridge routines by Dewberry 6-31-06.

Model uses fixed starting elevations for multi-profile and floodway runs at section 127.49 which ties in to the revised HEC-RAS model produced for Dixie, Gilchrist and Lafayette County DFIRMS produced in 2005 by Dewberry and URS.

Datum conversions were performed as follows to convert the entire model from NGVD29 to NAVD88:

Alapaha (entirely Hamilton County) -0.76

Withlacoochee (Madison and Hamilton Counties)  $(-0.7 + -0.76)/2$   
 = - 0.73

Suwannee Reaches:  
 WtOSF (mile 127.49-Withlacoochee) (Madison and Suwannee Counties)  
 $(-0.72 + -0.7)/2 = -0.71$

Alatow (Alapaha to Withlacoochee) (Suwannee and Hamilton Counties)  
 $(-0.72 + -0.76)/2 = -0.74$

UpstreamEnd (State Line to Alapaha) (Hamilton, Suwannee and Columbia Counties)  
 $(-0.76 + -0.72 + -0.84)/3 = -0.77$

SRWMD Floodway runs have been merged into plan file to create 1 HEC-RAS model. Where necessary, the cross section stations were shifted by a constant amount and the encroachment

stations were adjusted accordingly to align with internal bridge sections and give correct results for HEC-RAS version 3.1.3 floodway modeling through bridges.

## PLAN DATA

Plan Title: FLOODWAY

Plan File : C:\Users\David\hec\HEC-RAS Model\Suwannee.p02

Geometry Title: Suwannee River

Geometry File : C:\Users\David\hec\HEC-RAS Model\Suwannee.g01

Flow Title : Floodway Flows

Flow File : C:\Users\David\hec\HEC-RAS Model\Suwannee.f02

## Plan Summary Information:

Number of: Cross Sections	= 202	Multiple Openings	= 0
Culverts	= 0	Inline Structures	= 0
Bridges	= 14	Lateral Structures	= 0

## Computational Information

Water surface calculation tolerance	= 0.01
Critical depth calculation tolerance	= 0.01
Maximum number of iterations	= 20
Maximum difference tolerance	= 0.3
Flow tolerance factor	= 0.001

## Computation Options

Critical depth computed only where necessary	
Conveyance Calculation Method:	At breaks in n values only
Friction Slope Method:	Average Conveyance
Computational Flow Regime:	Subcritical Flow

## Encroachment Data

Equal Conveyance	= True
Left Offset	= 0
Right Offset	= 0

## CROSS SECTION

RIVER: Suwannee

REACH: UpstreamEnd RS: 169.8

## INPUT

Description: 169.8

## X-SECTION IDENTIFICATION WII88

Station Elevation Data				num=	81				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	102.16	10072	102.06	10100	100.96	10174	101.26	10225	101.16
10308	100.16	10413	99.36	10495	99.56	10583	99.46	10744	99.16
10825	99.36	10905	99.06	11006	98.36	11112	98.16	11196	97.46
11280	97.76	11360	97.16	11517	96.86	11584	95.56	11653	92.16
11656	84.46	11669	82.66	11685	74.36	11696	56.66	11706	52.66
11716	49.56	11736	46.36	11756	42.56	11776	42.26	11796	46.56
11801	47.96	11804	52.66	11818	62.16	11846	76.76	11857	74.66



## Robert\_lot3\_pre.rep

11864	74.86	11888	80.66	11901	77.06	11923	77.16	11976	77.06
12007	76.56	12044	76.06	12113	76.36	12172	75.76	12236	76.06
12290	76.46	12414	77.46	12600	76.86	12666	76.06	12782	72.56
12852	70.36	13016	69.96	13049	73.26	13103	73.86	13187	72.76
13349	72.16	13401	73.86	13463	73.56	13631	73.96	13808	74.86
13873	76.86	13946	77.56	14028	76.56	14095	75.56	14170	75.56
14218	75.66	14280	75.46	14329	75.46	14404	75.16	14487	75.06
14536	74.96	14599	75.56	14668	76.16	14774	77.96	14880	86.16
15060	98.36	15213	116.06	15404	117.96	15577	116.16	15594	117.26
15615	117.36								

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
10000	.25	11685	.05
		11846	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	11685	11846		1000	825		.1	.3

## CROSS SECTION

RIVER: Suwannee  
 REACH: UpstreamEnd RS: 169.65

INPUT  
 Description: 169.65

Station Elevation Data				num= 94			
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	91.56	10047	92.06	10070	95.86	10134	95.46
10343	96.06	10416	94.76	10580	93.56	10608	89.96
10736	78.96	10849	72.56	11174	62.26	11196	72.06
11289	79.96	11346	83.16	11397	85.26	11419	89.06
11568	90.66	11627	91.66	11674	91.36	11719	92.16
11837	91.26	11890	93.26	11956	92.96	12001	92.96
12080	94.36	12158	94.26	12234	93.36	12249	88.26
12289	73.76	12312	71.06	12318	68.16	12328	54.36
12334	52.26	12354	45.56	12374	46.36	12394	46.46
12434	49.16	12443	52.56	12457	69.26	12480	76.16
12720	67.06	12746	68.56	12764	69.76	12801	69.66
12846	69.66	12904	69.06	12984	68.46	13049	67.96
13144	70.06	13203	72.36	13245	72.46	13308	75.56
13378	74.06	13432	73.36	13495	72.06	13633	72.06
13850	73.56	13919	73.76	13975	74.46	14035	73.36
14158	71.66	14572	72.36	14616	71.96	14651	72.26
14710	75.46	14741	79.26	14774	84.66	14822	89.16
14924	115.96	14958	122.56	14987	128.36	15021	129.66
15102	127.56	15153	125.96	15180	124.16	15207	124.16

Manning's n Values		num= 4	
Sta	n Val	Sta	n Val
10000	.99	12249	.25
		12318	.05
		12457	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	12318	12457		1750	1550		.1	.3

## CROSS SECTION

RIVER: Suwannee  
 REACH: UpstreamEnd RS: 169.50

INPUT

## Robert\_lot3\_pre.rep

Description: 18-2S-16-01650-003, Upstream lot

Station Elevation Data		num= 98							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66	11389	73.96
11534	75.46	11592	75.76	11762	75.46	11854	74.86	11986	75.26
12039	75.66	12090	76.36	12219	74.36	12353	72.46	12528	80.76
12635	81.56	12675	81.56	12730	82.36	12822	81.36	12897	77.16
12984	74.26	13066	69.16	13138	63.26	13229	62.26	13357	62.96
13428	64.86	13485	67.56	13562	70.36	13611	70.06	13669	73.56
13731	72.16	13932	68.96	13987	67.26	14026	80.06	14058	81.06
14088	81.26	14133	81.36	14185	79.86	14201	82.46	14208	81.36
14221	77.26	14241	71.36	14249	71.76	14257	74.86	14261	74.86
14281	68.76	14299	52.36	14301	51.46	14321	46.76	14341	45.36
14361	46.26	14381	43.76	14401	45.06	14421	47.26	14431	49.36
14436	52.36	14444	55.36	14461	68.36	14478	78.46	14492	70.86
14541	70.86	14601	66.76	14629	69.06	14664	74.56	14745	76.26
14786	73.66	14852	72.96	14930	73.16	14995	71.46	15089	69.36
15134	68.26	15193	67.16	15258	68.36	15296	70.66	15341	71.26
15402	68.56	15465	65.96	15493	69.46	15564	72.26	15629	74.36
15696	74.96	15766	75.16	15834	74.56	15914	73.06	15960	69.26
15988	70.16	16012	74.56	16097	75.86	16258	98.26	16315	116.46
16380	124.66	16430	126.86	16480	127.96	16532	125.86	16584	125.46
16620	123.46	16642	123.46	16671	123.96				

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	14281	.05	14461	.25

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	14281	14461		2100	1950	1300		.1	.3

## CROSS SECTION

RIVER: Suwannee  
 REACH: UpstreamEnd RS: 169.49

## INPUT

Description: 18-2S-16-01650-002, Downstream lot

Station Elevation Data		num= 102							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66	11389	73.96
11534	75.46	11592	75.76	11762	75.46	11854	74.86	11986	75.26
12039	75.66	12090	76.36	12219	74.36	12353	72.46	12528	80.76
12635	81.56	12675	81.56	12730	82.36	12822	81.36	12897	77.16
12984	74.26	13066	69.16	13138	63.26	13229	62.26	13357	62.96
13428	64.86	13485	67.56	13562	70.36	13611	70.06	13669	73.56
13731	72.16	13932	68.96	13987	67.26	14026	80.06	14058	81.06
14088	81.26	14133	81.36	14159	82	14160	81.9	14170	81.9
14171	81.9	14185	79.86	14201	82.46	14208	81.36	14221	77.26
14241	71.36	14249	71.76	14257	74.86	14261	74.86	14281	68.76
14299	52.36	14301	51.46	14321	46.76	14341	45.36	14361	46.26
14381	43.76	14401	45.06	14421	47.26	14431	49.36	14436	52.36
14444	55.36	14461	68.36	14478	78.46	14492	70.86	14541	70.86
14601	66.76	14629	69.06	14664	74.56	14745	76.26	14786	73.66
14852	72.96	14930	73.16	14995	71.46	15089	69.36	15134	68.26
15193	67.16	15258	68.36	15296	70.66	15341	71.26	15402	68.56
15465	65.96	15493	69.46	15564	72.26	15629	74.36	15696	74.96
15766	75.16	15834	74.56	15914	73.06	15960	69.26	15988	70.16
16012	74.56	16097	75.86	16258	98.26	16315	116.46	16380	124.66
16430	126.86	16480	127.96	16532	125.86	16584	125.46	16620	123.46
16642	123.46	16671	123.96						

## Robert\_lot3\_pre.rep

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	14281	.05	14461	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	14281	14461		2100 1950	1300		.1	.3

CROSS SECTION

RIVER: Suwannee

REACH: UpstreamEnd

RS: 169.35

INPUT

Description: 169.35

Station Elevation Data

num=

98

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	89.26	10930	79.26	11030	77.86	11122	74.66	11389	73.96
11534	75.46	11592	75.76	11762	75.46	11854	74.86	11986	75.26
12039	75.66	12090	76.36	12219	74.36	12353	72.46	12528	80.76
12635	81.56	12675	81.56	12730	82.36	12822	81.36	12897	77.16
12984	74.26	13066	69.16	13138	63.26	13229	62.26	13357	62.96
13428	64.86	13485	67.56	13562	70.36	13611	70.06	13669	73.56
13731	72.16	13932	68.96	13987	67.26	14026	80.06	14058	81.06
14088	81.26	14133	81.36	14185	79.86	14201	82.46	14208	81.36
14221	77.26	14241	71.36	14249	71.76	14257	74.86	14261	74.86
14281	68.76	14299	52.36	14301	51.46	14321	46.76	14341	45.36
14361	46.26	14381	43.76	14401	45.06	14421	47.26	14431	49.36
14436	52.36	14444	55.36	14461	68.36	14478	78.46	14492	70.86
14541	70.86	14601	66.76	14629	69.06	14664	74.56	14745	76.26
14786	73.66	14852	72.96	14930	73.16	14995	71.46	15089	69.36
15134	68.26	15193	67.16	15258	68.36	15296	70.66	15341	71.26
15402	68.56	15465	65.96	15493	69.46	15564	72.26	15629	74.36
15696	74.96	15766	75.16	15834	74.56	15914	73.06	15960	69.26
15988	70.16	16012	74.56	16097	75.86	16258	98.26	16315	116.46
16380	124.66	16430	126.86	16480	127.96	16532	125.86	16584	125.46
16620	123.46	16642	123.46	16671	123.96				

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	14281	.05	14461	.25

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	14281	14461		2100 1950	1300		.1	.3

CROSS SECTION

RIVER: Suwannee

REACH: UpstreamEnd

RS: 168.98

INPUT

Description: 168.98

This is a REPEATED section.

Station Elevation Data

num=

99

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
10000	95.46	10146	92.96	10485	91.96	10576	91.26	10660	92.56
10724	92.56	10796	92.86	10931	91.26	11114	90.86	11248	90.26
11317	91.56	11366	91.86	11420	91.76	11472	90.76	11502	82.36
11582	75.06	11643	71.96	11952	71.76	11996	72.16	12444	72.26
12870	73.46	13289	73.36	13435	71.56	13607	72.66	13687	66.56



## Robert\_lot3\_pre.rep

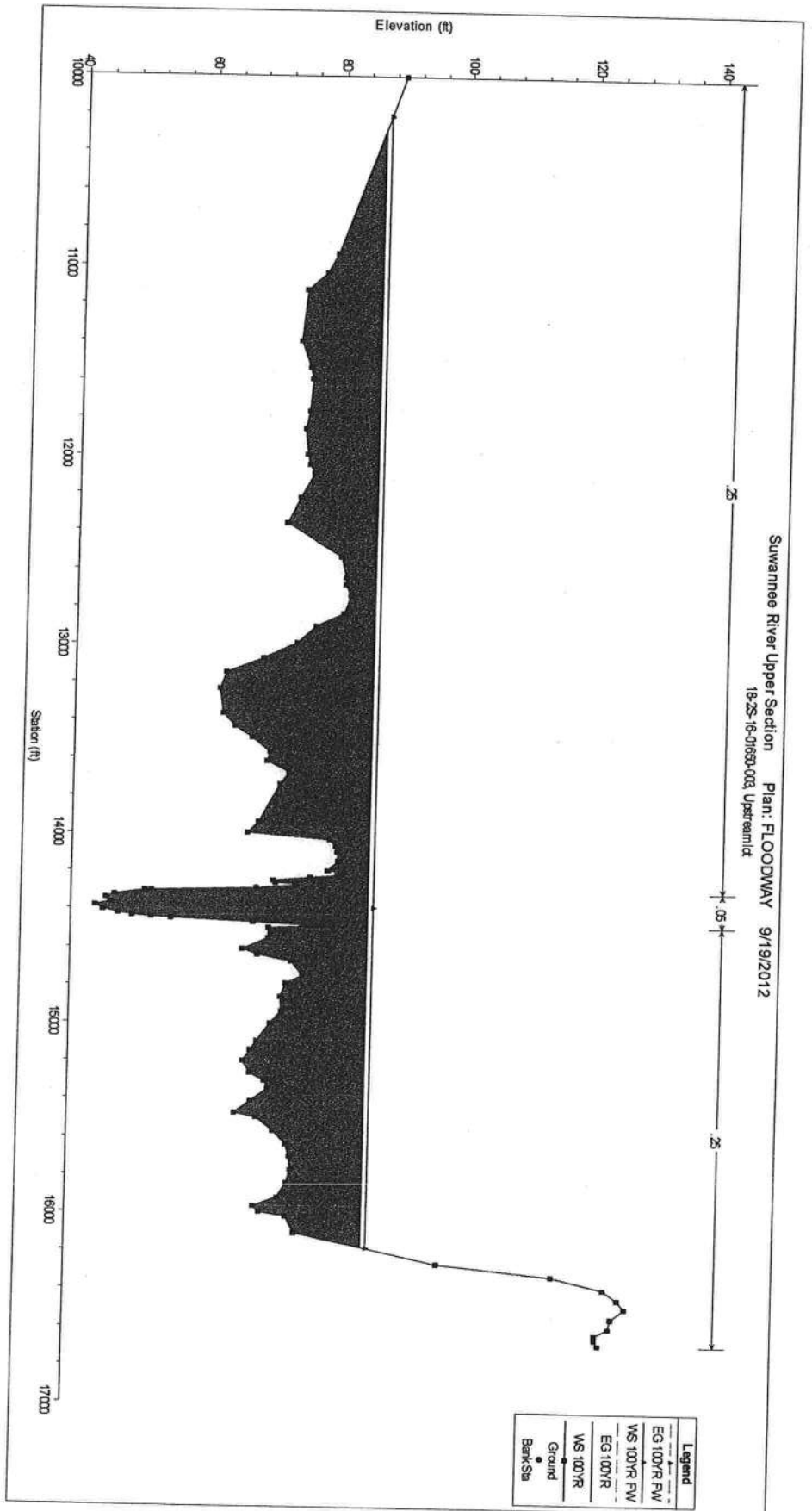
13799	72.06	14014	73.86	14170	71.16	14331	72.86	14501	72.86
14661	75.06	14878	73.96	15133	73.46	15322	73.76	15616	74.86
15883	74.16	16135	74.46	16381	74.16	16482	75.26	16703	71.56
16815	71.36	16948	73.26	17119	73.26	17193	72.76	17344	73.86
17513	73.86	17771	74.86	17957	77.76	18124	75.26	18394	74.26
18740	75.26	18802	76.36	19016	76.86	19129	76.56	19197	75.26
19239	74.86	19462	75.26	19648	75.46	19744	75.26	20019	77.26
20072	77.36	20111	77.26	20404	75.36	20500	75.46	20681	77.26
20779	77.86	20872	79.26	21038	75.26	21106	73.26	21176	73.26
21225	74.26	21261	75.26	21445	75.26	21592	78.56	21669	69.26
21686	92.66	21716	77.76	21718	78.06	21738	71.26	21754	65.86
21776	52.16	21786	48.36	21826	45.56	21846	44.76	21866	49.06
21876	52.16	21879	57.46	21899	68.66	21906	68.36	21919	73.46
21926	73.66	21946	75.36	21966	77.86	21986	82.16	22036	103.66
22076	108.66	22096	110.26	22116	111.26	22332	114.26		

Manning's n values

Sta	n Val	Sta	n Val	Sta	n Val
10000	.25	21754	.05	21899	.25

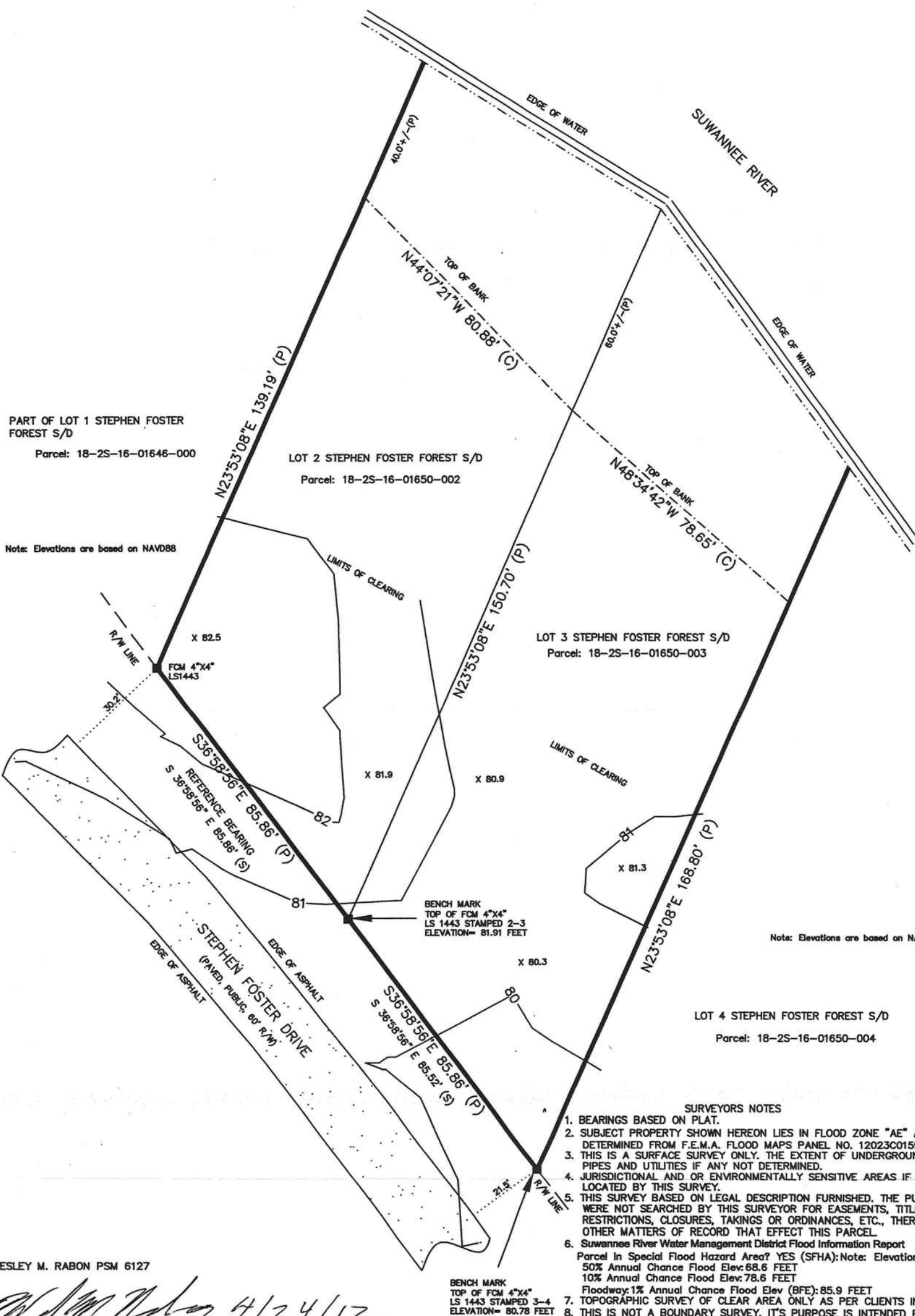
Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	21754	21899		53	53	.1	.3

Suwannee River Upper Section Plan: FLOODWAY 9/19/2012  
 18-25-16-01690-003 Upstream.txd



# MAP OF TOPOGRAPHIC SURVEY

OF A PART OF LOT 2 AND LOT 3, STEPHEN FOSTER FOREST SUBDIVISION,  
ACCORDING TO THE PLAT THEREOF RECORDED IN  
PLAT BOOK 3, PAGE 83, PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.



WESLEY M. RABON PSM 6127

*Wesley M. Rabon* 4/24/12

- SURVEYORS NOTES**
1. BEARINGS BASED ON PLAT.
  2. SUBJECT PROPERTY SHOWN HEREON LIES IN FLOOD ZONE "AE" AS BEST DETERMINED FROM F.E.M.A. FLOOD MAPS PANEL NO. 12023C0159C, DATED 2/4/2009.
  3. THIS IS A SURFACE SURVEY ONLY. THE EXTENT OF UNDERGROUND FOOTINGS, PIPES AND UTILITIES IF ANY NOT DETERMINED.
  4. JURISDICTIONAL AND OR ENVIRONMENTALLY SENSITIVE AREAS IF ANY, NOT LOCATED BY THIS SURVEY.
  5. THIS SURVEY BASED ON LEGAL DESCRIPTION FURNISHED. THE PUBLIC RECORDS, WERE NOT SEARCHED BY THIS SURVEYOR FOR EASEMENTS, TITLE, COVENANTS, RESTRICTIONS, CLOSURES, TAKINGS OR ORDINANCES, ETC., THERE COULD BE OTHER MATTERS OF RECORD THAT EFFECT THIS PARCEL.
  6. Suwannee River Water Management District Flood Information Report  
Parcel In Special Flood Hazard Area? YES (SFHA): Note: Elevations are based on NAVD88  
50% Annual Chance Flood Elev: 68.6 FEET  
10% Annual Chance Flood Elev: 78.6 FEET  
Floodway: 1% Annual Chance Flood Elev (BFE): 85.9 FEET
  7. TOPOGRAPHIC SURVEY OF CLEAR AREA ONLY AS PER CLIENTS INSTRUCTIONS.
  8. THIS IS NOT A BOUNDARY SURVEY. IT'S PURPOSE IS INTENDED FOR PERMITTING PURPOSES ONLY.
  9. BENCHMARK ELEVATIONS WERE ESTABLISHED FROM S.R.W.M.D. PBM ELEVATION 79.14 (NAVD88), LOCATED AT (X,Y) 2516969.43, 485810.56 (FL NORTH, NAD83) S.P.C.

NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

REV:		
WESLEY M. RABON PROFESSIONAL SURVEYOR AND MAPPER PO BOX 235 (398 NW NULL ROAD) WHITE SPRINGS, FLORIDA 32096 PHONE (386) 397-1199	DRAWN BY: WNK	FIELD BOOK: 12/30
	SCALE: 1" = 30'	
	SURVEY DATE: APRIL 19, 2012	
	JOB NUMBER	SHEET
CLIENT: ROBERT C. TOWNSEND	R0578	1 OF 1

<b>LEGEND</b>	
(D) = DEED	
(P) = PLAT	
(S) = SURVEY MEASUREMENT	
(C) = CALCULATED MEASUREMENT	
NOID = NO SURVEYORS IDENTIFICATION	
LS = LAND SURVEYOR	
LB = LICENSE BUSINESS	
FIR = FOUND IRON ROD	
FIP = FOUND IRON PIPE	
FCM = FOUND CONCRETE MONUMENT	
SIP = SET IRON PIPE	
SCM = SET CONCRETE MONUMENT	
PRM = PERMANENT REFERENCE MONUMENT	
C/L = CENTER LINE	
	—○— = CHAIN LINK FENCE
	— = CONTOUR LINE
	R/W = RIGHT OF WAY
	EOP = EDGE OF PAVEMENT
	ASP = ASPHALT PAVING
	CONC = CONCRETE
	OHE = OVER HEAD ELECTRIC
	EM = ELECTRIC METER
	UGE = UNDER GROUND ELECTRIC
	☐ = WOOD POWER POLE
	S.T. = SEPTIC TANK
	X—X = WIRE FENCE
	☐—☐ = WOOD FENCE