



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
10117 PRINCESS PALM AVENUE, SUITE 120
TAMPA, FLORIDA 33610

October 5, 2012

REPLY TO
ATTENTION OF

Tampa Permits Section
SAJ-2011-01079 (JD-TEH)
JURISDICTIONAL VERIFICATION

Mr. Kartik Goyani
GoldenRanch Property, LLC
2502 Rocky Point Dr., Suite 1050
Tampa, FL 33604

Dear Mr. Goyani:

Reference is made to information submitted to the U.S. Army Corps of Engineers (Corps) regarding the potential extent of Federal jurisdiction within the project area associated with an application known as "Union Park" (FKA Golden Ranch). The subject project area is located approximately 1.5 miles west of Morris Bridge Road and immediately north of the Hillsborough County line in Wesley Chapel, Pasco County, Florida, in Sections 35 and 36 of Township 26 South and Range 20 East (Latitude 28.17651 North; Longitude 82.27854 West).

The evaluation of this jurisdictional determination involved many factors and may have included a field visit, review of aerial photographs, geological quad sheets, county soils maps, and site specific information provided by you. A copy of the approved jurisdictional determination forms and depiction of the geographic extent of Federal jurisdiction are enclosed. The Corps has determined that the project area contains 73.89 acres of waters of the United States, including 65.17 acres of wetlands and 8.72 acres of ditches. A Department of the Army permit may be required for work in areas identified as waters of the United States.

Enclosed you will find a Notification of Appeal Process fact sheet and Request for Appeal (RFA) form. If you object to this determination, you may request an administrative appeal under Corps' regulations at 33 CFR Part 331. If you request to appeal this determination, you must submit a completed RFA form to the South Atlantic Division Office at the following address:

Mr. Jason Steele
South Atlantic Division
U.S. Army Corps of Engineers
CESAD-CM-CO-R, Room 9M15
60 Forsyth St., SW.
Atlanta, Georgia 30303-8801.

Mr. Steele can be reached by telephone number at 404-562-5137, or by facsimile at 404-562-5138.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division office within 60 days of the date of the RFA. Should you decide to submit an RFA form, it must be received at the above address within 60 days of the date of this letter.

The determination shown on the enclosed information represents the upland/wetland boundary for purposes of determining the Corps jurisdictional line. As depicted on the enclosed drawing, it has been determined you have waters of the United States onsite, which are subject to regulation by the Corps, and/or you have wetlands onsite which are considered to be isolated, and thus not subjected to regulation by the Corps. Please be advised that the jurisdictional determination shown is based on the Corps of Engineers Wetlands Delineation Manual (1987) or current regional supplement, and is valid for a period no longer than 5 years from the date of this letter unless new information warrants a revision of the determination before the expiration date. If, after the 5-year period, the Corps has not specifically revalidated this jurisdictional determination, it shall automatically expire. Any reliance upon this jurisdictional determination beyond the expiration date may lead to possible violation of current Federal laws and/or regulations. You may request revalidation of the jurisdictional determination prior to the expiration date. Any revalidation or updating will be considered under the method of jurisdictional determination and other applicable regulations in use at the time of the request. Additionally, this determination has been based on information provided by you or your agent; should we determine that the information was incomplete or erroneous this delineation would be invalid.

This determination has been conducted to identify the limits of the Corps Clean Water Act jurisdiction for the particular site identified in this request. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985, as amended. If you or your tenant are U.S. Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

You are cautioned that work performed below the mean high water line or ordinary high water line in waters of the United States, or the discharge of dredged or fill material into adjacent wetlands, without a Department of the Army permit could subject you to enforcement action. Receipt of a permit from the Department of Environmental Protection or the Water Management District does not obviate the requirement for obtaining a Department of the Army permit for the work described above prior to commencing work.

The Corps' Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to take a few minutes to visit <http://per2.nwp.usace.army.mil/survey.html> and complete our automated Customer Service Survey. Your input is appreciated – favorable or otherwise. Please be aware this web address is case sensitive and should be entered as it appears above.

Thank you for your cooperation with our permit program. If you have any questions concerning this matter please contact Tracy Hurst by mail at the letterhead address, by electronic mail at Tracy.E.Hurst@usace.army.mil, or by telephone at 813-769-7063.

Sincerely,

for: Donald W. Kinard
Chief, Regulatory Division

Enclosures:

NOA Form
Rapanos Forms (2)
JD Drawings

Copy Furnished: (w/ encls)

Mr. Jay Hunting, FDC

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND
REQUEST FOR APPEAL**

Applicant: GOLDENRANCH PROPERTIES, LLD		File Number: SAJ-2011-01079	Date: 10/5/12
Attached is:		See Section below	
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A	
	PROFFERED PERMIT (Standard Permit or Letter of permission)	B	
	PERMIT DENIAL	C	
X	APPROVED JURISDICTIONAL DETERMINATION	D	
	PRELIMINARY JURISDICTIONAL DETERMINATION	E	

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/CECW/Pages/reg_materials.aspx or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- *ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.*
- *OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.*

B: PROFFERED PERMIT: You may accept or appeal the permit

- *ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.*
- *APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.*

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- *ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.*
- *APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.*

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:
Project Manager as noted in letter

If you only have questions regarding the appeal process you may also contact:
Jason Steele
404-562-5137

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.

Date:

Telephone number:

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

REACH 1 – BASSETT BRANCH

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 7/20/12

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Jacksonville, GoldenRanch, SAJ-2011-01079 (IP-TEH)

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: FL County/parish/borough: Pasco City:
Center coordinates of site (lat/long in degree decimal format): Lat. 28.17651537° N, Long. 82.27853927° W.
Universal Transverse Mercator:

Name of nearest waterbody: Bassett Branch

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Hillsborough River

Name of watershed or Hydrologic Unit Code (HUC): 03100205

Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. (See Reach 2 – New River – form)

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s): 3/8/12

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **are no** “navigable waters of the U.S.” within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

Waters subject to the ebb and flow of the tide.

Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **are and are not** “waters of the U.S.” within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):¹

- TNWs, including territorial seas
- Wetlands adjacent to TNWs
- Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
- Non-RPWs that flow directly or indirectly into TNWs
- Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
- Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
- Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
- Impoundments of jurisdictional waters
- Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or 7.54 acres (ditches).

Wetlands: 47.05 acres.

c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable):³

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

Explain: Wetlands A1, A7, D2, and F5 were found to be isolated and non-jurisdictional (see Item IV(b) of this document).

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least “seasonally” (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. **TNW**

Identify TNW: .

Summarize rationale supporting determination: .

2. **Wetland adjacent to TNW**

Summarize rationale supporting conclusion that wetland is “adjacent”:

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. **Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.**

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) **General Area Conditions:**

Watershed size: 30 **square miles**

Drainage area: 320 **acres**

Average annual rainfall: 55 inches

Average annual snowfall: 0 inches

(ii) **Physical Characteristics:**

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through **1** tributary before entering TNW.

Project waters are **2-5** river miles from TNW.

Project waters are **1 (or less)** river miles from RPW.

Project waters are **2-5** aerial (straight) miles from TNW.

Project waters are **1 (or less)** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: no.

Identify flow route to TNW⁵: **Bassett Branch (non-RPW/RPW) > Hillsborough River (RPW) > Hillsborough River (TNW). The Hillsborough River transitions from an RPW to a TNW (roughly) east of I-75. See attached reach map.**

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

Tributary stream order, if known: First.

(b) General Tributary Characteristics (check all that apply):

Tributary is: Natural
 Artificial (man-made). Explain: wetlands often connected by ditches.
 Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):

Average width: varies feet
Average depth: feet
Average side slopes: **4:1 (or greater)**.

Primary tributary substrate composition (check all that apply):

Silts Sands Concrete
 Cobbles Gravel Muck
 Bedrock Vegetation. Type/% cover:
 Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .

Presence of run/riffle/pool complexes. Explain: .

Tributary geometry: **Meandering**

Tributary gradient (approximate average slope): 0.5 %

(c) Flow:

Tributary provides for: **Seasonal flow**

Estimate average number of flow events in review area/year: **6-10**

Describe flow regime: .

Other information on duration and volume: .

Surface flow is: **Discrete and confined**. Characteristics: .

Subsurface flow: **Unknown**. Explain findings: .

Dye (or other) test performed: .

Tributary has (check all that apply):

Bed and banks
 OHWM⁶ (check all indicators that apply):
 clear, natural line impressed on the bank the presence of litter and debris
 changes in the character of soil destruction of terrestrial vegetation
 shelving the presence of wrack line
 vegetation matted down, bent, or absent sediment sorting
 leaf litter disturbed or washed away scour
 sediment deposition multiple observed or predicted flow events
 water staining abrupt change in plant community
 other (list):
 Discontinuous OHWM.⁷ Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

High Tide Line indicated by: Mean High Water Mark indicated by:
 oil or scum line along shore objects survey to available datum;
 fine shell or debris deposits (foreshore) physical markings;
 physical markings/characteristics vegetation lines/changes in vegetation types.
 tidal gauges
 other (list):

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: water is generally clear.

Identify specific pollutants, if known: .

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

(iv) **Biological Characteristics. Channel supports (check all that apply):**

- Riparian corridor. Characteristics (type, average width): 500 feet / freshwater marsh and forested wetlands.
- Wetland fringe. Characteristics:
- Habitat for:
 - Federally Listed species. Explain findings:
 - Fish/spawn areas. Explain findings:
 - Other environmentally-sensitive species. Explain findings:
 - Aquatic/wildlife diversity. Explain findings: Habitat for insect larvae, amphibians, and various invertebrates;

foraging area for some species; tributary conveys nutrients downstream.

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: **47.05** acres

Wetland type. Explain: Forested wetlands and freshwater marsh.

Wetland quality. Explain: Fair: The wetlands have been impacted by berming and agricultural ditching.

Project wetlands cross or serve as state boundaries. Explain: NO.

(b) General Flow Relationship with Non-TNW:

Flow is: **Ephemeral flow**. Explain: Wetlands overflow due to rain events and during the rainy season.

Surface flow is: **Discrete and confined**

Characteristics:

Subsurface flow: **Unknown**. Explain findings:

Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

Directly abutting (**Wetlands A3, B11, and D6A**)

Not directly abutting

Discrete wetland hydrologic connection. Explain: (**Wetlands G1, F2, E4, E5, D6, C7, F8, C9, D1, C2, A5, B6, A8, C9, D11, and E10 have surface or piped connections that flows into the RPW**).

Ecological connection. Explain:

Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **2-5** river miles from TNW.

Project waters are **2-5** aerial (straight) miles from TNW.

Flow is from: **Wetland to navigable waters**.

Estimate approximate location of wetland as within the **50 - 100-year** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Not observed in wetland areas..

Identify specific pollutants, if known: unknown.

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

Riparian buffer. Characteristics (type, average width):

Vegetation type/percent cover. Explain: Forested wetlands and marsh/100%.

Habitat for:

Federally Listed species. Explain findings: Wetlands provide potential foraging habitat for the federally endangered

wood stork.

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: Wetland provide habitat for insects, insect larvae, amphibians, various invertebrates, birds and small mammals.

3. **Characteristics of all wetlands adjacent to the tributary (if any)**

All wetland(s) being considered in the cumulative analysis: **20-25**

Approximately (100) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>		<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>		<u>Size (in acres)</u>
G1	N	5.64	A8	N	2.48
F2	N	0.65	B6	N	0.38
E4	N	2.38	A5	N	1.31
E5	N	1.21	A3	Y	11.25
D6	N	1.63	C2	N	0.91
C7	N	5.31	D1	N	0.18
C9	N	0.37	E10	N	0.21
D11	N	3.57	F8	N	0.17
B11	Y	4.10	D6A	Y	0.20
A10	N	3.03	D7	N	2.07

Summarize overall biological, chemical and physical functions being performed: Water storage and attenuation, filtration, water quality treatment, fish and wildlife habitat, nutrient uptake and storage..

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW** (see note below). Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

Note: On 1 December 2008, the US Supreme Court declined to hear the McWane/Robison case. This case involved a federal appeals court (11th Circuit) ruling that had the effect of overturning a criminal conviction of an industrial pipe manufacturer found guilty of illegally dumping oil, lead, zinc, grease and other pollutants into Avondale Creek in Alabama, a permanently flowing stream that eventually flows into the navigable Black Warrior River. The appeals court overturned the case because they interpreted the Rapanos decision as requiring a significant nexus determination on all waters except TNWs and wetlands adjacent to the TNWs, and in this case, a SND was not performed on Avondale Creek, an RPW.

The 2 December 2008 Rapanos guidance acknowledges (footnote 16, bottom of page 3) the Supreme Court's refusal to hear the McWane/Robison case. Therefore, in the 11th Circuit (Florida, Georgia, and Alabama) the McWane/Robison decision, which contradicted the June 2007 Rapanos Guidance concerning jurisdiction of RPWs and wetlands directly abutting RPWs, is final. Therefore, when performing an approved JD, the Corps must perform a significant nexus determination on ALL waters and wetlands except for TNWs and wetlands adjacent to TNWs.

Significant nexus determination for Bassett Branch and its adjacent wetlands:

Physical: The project wetlands (both cypress and freshwater marsh) flow south through a series of interconnected agricultural ditches that connect to Bassett Branch, a tributary (RPW) of the Hillsborough River (TNW). The wetlands perform important flow maintenance functions including storage of flood waters^{1,2} and a release of these waters into the tributary in a more even and consistent manner². Therefore, the wetlands directly affect the duration, frequency, and volume of flow in the tributary and the downstream navigable water². The wetlands reduce local flooding¹. Storage of surface waters provides groundwater recharge that contributes to baseflow in the tributary that is vital to sustain aquatic life in downstream waters¹. These wetlands offer the following benefits to downstream aquatic resources: reduction of downstream peak discharge and volume, recharge of aquifers, maintenance of seasonal/baseflows, maintenance of groundwater supplies¹. Cypress swamps appear to have lower evapotranspiration rates than surrounding ecosystems and may, therefore, provide more recharge to the aquifer³.

Chemical: The wetlands improve water quality by removing sediment and nutrients that would otherwise reach downstream waters and have a negative effect on aquatic resources^{1,2}. The wetlands improve water quality by removing sediment and nutrients (particularly phosphorous and nitrogen) that would otherwise reach downstream waters and have a negative effect on aquatic resources^{1,2,3}. In general, almost all organic matter and nutrients from wastewater flows inflows are removed or stored within the substrate of the wetland¹.

Biological: The wetlands are of utmost importance biologically since the majority of other non-wetland areas in the watershed have been altered for agriculture, residential, or other purposes¹. These wetlands provide breeding grounds for species that cannot reproduce in faster-moving water and move between wetlands and uplands over their lifecycle¹. The wetland, along with the tributary system, provide wildlife habitat (e.g. feeding, nesting, spawning, rearing of young) for many aquatic species that live in traditional navigable waters². The wetlands also maintain a more consistent water temperature in tributaries, which is important to many aquatic species². These wetlands, along with the tributary system, provide wildlife habitat (e.g. feeding, nesting, spawning, rearing of young) for many aquatic species that live in traditional navigable waters². These wetlands have a diverse community of benthic invertebrates, a major food source for vertebrates³.

References

¹The Clean Water Act Jurisdictional Handbook. 2007. Environmental Law Institute, Washington, DC, 77 pp.
²Clean Water Act Jurisdiction Following the U.S. Supreme Court’s Decision in Rapanos v. United States & Carabell v. United States. 2007. US Department of the Army and US Environmental Protection Agency. 12 pp.
³Ewel, K.C. 1990. Multiple demands on wetlands. Bioscience, 40:660-666.

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:

- TNWs: linear feet width (ft), Or, acres.
- Wetlands adjacent to TNWs: acres.

2. RPWs that flow directly or indirectly into TNWs.

- Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
- Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: **Ditches hold water > 3 mo and form RPWS between wetlands.**

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: **7.54** acres.
Identify type(s) of waters: **ditches.**

3. Non-RPWS⁸ that flow directly or indirectly into TNWs.

- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: linear feet width (ft).
- Other non-wetland waters: acres.
Identify type(s) of waters: .

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

- Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
 - Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .
 - Wetlands directly abutting an RPW where tributaries typically flow “seasonally.” Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: **Wetlands A3, D6A, and B11** overflow directly to the RPW during normal wet season. **Wetland A3** is connected via an outlet ditch that drains to the west. **Wetland D6A** is connected to offsite wetlands to the west that flow to the RPW. **Wetland B11** drains south to a ditch and culvert that connects to wetlands abutting the RPW..

Provide acreage estimates for jurisdictional wetlands in the review area: **15.55** acres.

⁸See Footnote # 3.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**

- Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C. **Wetlands G1, F2, E4, E5, D6, C7, C9, D11, A10, A8, B6, A5, C2, D7, D1, E10, and F8.**

Provide acreage estimates for jurisdictional wetlands in the review area: **31.5** acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

- Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: _____ acres.

7. **Impoundments of jurisdictional waters.⁹**

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from “waters of the U.S.,” or
 Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
 Demonstrate that water is isolated with a nexus to commerce (see E below).

E. **ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰**

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
 from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
 which are or could be used for industrial purposes by industries in interstate commerce.
 Interstate isolated waters. Explain: _____
 Other factors. Explain: _____

Identify water body and summarize rationale supporting determination: _____

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: _____ linear feet _____ width (ft).
 Other non-wetland waters: _____ acres.
Identify type(s) of waters: _____
 Wetlands: _____ acres.

F. **NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):**

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
 Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 Prior to the Jan 2001 Supreme Court decision in “SWANCC,” the review area would have been regulated based solely on the “Migratory Bird Rule” (MBR).
 Waters do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction. Explain: _____
 Other: (explain, if not covered above): _____

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- Non-wetland waters (i.e., rivers, streams): _____ linear feet _____ width (ft).
 Lakes/ponds: _____ acres.
 Other non-wetland waters: _____ acres. List type of aquatic resource: _____
 Wetlands: **2.73** acres. (**Wetlands A7, A1, F5, and D2**)

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction (check all that apply):

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ **Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.**

- Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
- Lakes/ponds: acres.
- Other non-wetland waters: acres. List type of aquatic resource: .
- Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: FDC.
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps: .
- Corps navigable waters' study: .
- U.S. Geological Survey Hydrologic Atlas: .
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: Wesley Chapel 7.5'.
- USDA Natural Resources Conservation Service Soil Survey. Citation: NRCS online soil survey.
- National wetlands inventory map(s). Cite name: Google Earth Pro.
- State/Local wetland inventory map(s): .
- FEMA/FIRM maps: .
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): Google Earth Pro 1995-2010.
or Other (Name & Date): .
- Previous determination(s). File no. and date of response letter: .
- Applicable/supporting case law: .
- Applicable/supporting scientific literature: .
- Other information (please specify): .

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Wetland A1 is considered isolated and not adjacent because:

1. There is not an unbroken or shallow sub-surface connection to jurisdictional waters.
2. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like. The area around the wetland is undeveloped. The only activity has been removal of native vegetation and conversion to pasture and the construction of a stormwater pond to the southeast.
3. Its proximity to a jurisdictional water is not reasonably close. The nearest jurisdictional water is wetland A3 which is located approximately 450 feet from Wetland A1.

Wetland A7 is considered isolated and not adjacent because:

1. There is not an unbroken or shallow sub-surface connection to jurisdictional waters.
2. They are not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like. Wetland 2 is separated from Wetland A8 by forested uplands and pasture.
3. Their proximity to a jurisdictional water is not reasonably close. The closest jurisdictional water is Wetland A8. Wetland A8 is located approximately 200 feet to the south of Wetland A7.

Wetland F5 is considered isolated and not adjacent because:

1. There is not an unbroken or shallow sub-surface connection to jurisdictional waters.
2. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like. The area around the wetland is undeveloped. The only activity has been removal of native vegetation and conversion to pasture.
3. Its proximity to a jurisdictional water is not reasonably close. The nearest jurisdictional water is wetland E5 which is located approximately 100 feet west of Wetland F5.

Wetland D2 is considered isolated and not adjacent because:

1. There is not an unbroken or shallow sub-surface connection to jurisdictional waters. Field observation indicate that there is no apparent connection to other wetlands

2. They are not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like. The area around the wetland is undeveloped. The only activity has been removal of native vegetation and conversion to pasture.

Furthermore, Wetlands A1, A7, F5, and D2, could not affect interstate or foreign commerce because they do not contain such waters:

- a. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
- b. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
- c. Which are used or could be used for industrial purpose by industries in interstate commerce.

Ditches found to be non-jurisdictional did not contain water > 3 months out of the year.

Jurisdictional Ditches – Reach 1 – Bassett Branch	
G1-2	0.13
G3	0.08
F2	0.77
E4-2	0.12
E4-1	0.23
C2	0.78
A3-2	0.59
A3-3	0.67
A3-1	0.16
A5	0.07
B6	0.06
E5	0.06
C7-1	0.20
D6	0.18
C7-2	1.68
A8	0.62
D11	0.18
E10	0.29
D1	0.23
G1-1	0.06
C9-1	0.10
C9-2	0.03
H7-1	0.01
G1-3	0.24
TOTAL	7.54

NON-Jurisdictional Ditches – Reach 1 – Bassett Branch	
A7	0.24
TOTAL	0.24

APPROVED JURISDICTIONAL DETERMINATION FORM

U.S. Army Corps of Engineers

REACH 2-New River

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 7/20/12

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Jacksonville, GoldenRanch, SAJ-2011-01079 (IP-TEH)

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State: Florida County/parish/borough: Pasco City:
Center coordinates of site (lat/long in degree decimal format): Lat. 28.17651537° N, Long. 82.27853927° W.
Universal Transverse Mercator:

Name of nearest waterbody: New River

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Hillsborough River

Name of watershed or Hydrologic Unit Code (HUC): 03100205 Hillsborough River

- Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.
Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. (See Reach - Bassett Branch - form)

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

- Office (Desk) Determination. Date:
Field Determination. Date(s): 3/8/12

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There are no "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

- Waters subject to the ebb and flow of the tide.
Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.
Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There are and are not "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply): 1

- TNWs, including territorial seas
Wetlands adjacent to TNWs
Relatively permanent waters (RPWs) that flow directly or indirectly into TNWs
Non-RPWs that flow directly or indirectly into TNWs
Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
Impoundments of jurisdictional waters
Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or 1.18 acres (ditches)
Wetlands: 64.36 acres.

c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual

Elevation of established OHWM (if known): unknown.

2. Non-regulated waters/wetlands (check if applicable): 3

- Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.
Explain: Wetlands F11, J4, G11, and I1 were found to be isolated and non-jurisdictional (see Item IV(b) of this document

1 Boxes checked below shall be supported by completing the appropriate sections in Section III below.

2 For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

3 Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. **TNW**

Identify TNW: .

Summarize rationale supporting determination: .

2. **Wetland adjacent to TNW**

Summarize rationale supporting conclusion that wetland is “adjacent”:

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under Rapanos have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. **Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.**

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) **General Area Conditions:**

Watershed size: 22 **square miles**

Drainage area: 260 **acres**

Average annual rainfall: 55 inches

Average annual snowfall: 0 inches

(ii) **Physical Characteristics:**

(a) Relationship with TNW:

Tributary flows directly into TNW.

Tributary flows through **1** tributaries before entering TNW.

Project waters are **2-5** river miles from TNW.

Project waters are **1 (or less)** river miles from RPW.

Project waters are **2-5** aerial (straight) miles from TNW.

Project waters are **1 (or less)** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: .

Identify flow route to TNW⁵: **New River (RPW) > Hillsborough River (RPW) > Hillsborough River (TNW). The Hillsborough River transitions from an RPW to a TNW (roughly) east of I-75. See attached reach map.**

Tributary stream order, if known: .

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b) General Tributary Characteristics (check all that apply):

Tributary is: Natural
 Artificial (man-made). Explain: Some parts of the RPW connected via ditches.
 Manipulated (man-altered). Explain:

Tributary properties with respect to top of bank (estimate):

Average width: Varies feet
Average depth: feet
Average side slopes: **4:1 (or greater).**

Primary tributary substrate composition (check all that apply):

Silts Sands Concrete
 Cobbles Gravel Muck
 Bedrock Vegetation. Type/% cover: varies/100%
 Other. Explain:

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain:

Presence of run/riffle/pool complexes. Explain:

Tributary geometry: Meandering

Tributary gradient (approximate average slope): 0.5 %

(c) Flow:

Tributary provides for: Seasonal flow

Estimate average number of flow events in review area/year: 6-10

Describe flow regime:

Other information on duration and volume:

Surface flow is: Discrete and confined. Characteristics:

Subsurface flow: Unknown. Explain findings:

Dye (or other) test performed:

Tributary has (check all that apply):

Bed and banks
 OHWM⁶ (check all indicators that apply):
 clear, natural line impressed on the bank the presence of litter and debris
 changes in the character of soil destruction of terrestrial vegetation
 shelving the presence of wrack line
 vegetation matted down, bent, or absent sediment sorting
 leaf litter disturbed or washed away scour
 sediment deposition multiple observed or predicted flow events
 water staining abrupt change in plant community
 other (list):
 Discontinuous OHWM.⁷ Explain:

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

High Tide Line indicated by: Mean High Water Mark indicated by:
 oil or scum line along shore objects survey to available datum;
 fine shell or debris deposits (foreshore) physical markings;
 physical markings/characteristics vegetation lines/changes in vegetation types.
 tidal gauges
 other (list):

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: Water is generally clear.

Identify specific pollutants, if known: Unknown.

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

(iv) **Biological Characteristics. Channel supports (check all that apply):**

- Riparian corridor. Characteristics (type, average width): 500 feet/ freshwater marsh and forested wetlands.
 Wetland fringe. Characteristics:
 Habitat for:

Federally Listed species. Explain findings: Wetlands provide potential foraging habitat for the federally endangered wood stork.

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: Wetlands and adjacent tributaries provide habitat for insects, insect larvae, amphibians, and various invertebrates. Other species utilize these areas for foraging. Tributaries convey nutrients downstream to the main channel of New River

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: **64.36** acres

Wetland type. Explain: Forested wetlands and freshwater marsh.

Wetland quality. Explain: Fair: The wetlands have been impacted by berming and agricultural ditching.

Project wetlands cross or serve as state boundaries. Explain: no.

(b) General Flow Relationship with Non-TNW:

Flow is: **Ephemeral flow**. Explain: Wetlands overflow due to rain events and during the rainy season.

Surface flow is: **Discrete and confined**

Characteristics:

Subsurface flow: **Unknown**. Explain findings:

Dye (or other) test performed:

(c) Wetland Adjacency Determination with Non-TNW:

Directly abutting (**Wetlands H7 and K6**)

Not directly abutting

Discrete wetland hydrologic connection. Explain: (**Wetlands G3, J3, H4, H10, and H11, have surface or piped connections that flows into the RPW**)

Ecological connection. Explain:

Separated by berm/barrier. Explain:

(d) Proximity (Relationship) to TNW

Project wetlands are **2-5** river miles from TNW.

Project waters are **2-5** aerial (straight) miles from TNW.

Flow is from: **Wetland to navigable waters**.

Estimate approximate location of wetland as within the **50 - 100-year** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Not observed in wetland areas.

Identify specific pollutants, if known: unknown.

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

Riparian buffer. Characteristics (type, average width):

Vegetation type/percent cover. Explain: Forested wetlands and marsh/100%

Habitat for:

Federally Listed species. Explain findings: Wetlands provide potential foraging habitat for the federally endangered wood stork.

Fish/spawn areas. Explain findings:

Other environmentally-sensitive species. Explain findings:

Aquatic/wildlife diversity. Explain findings: Wetland provide habitat for insects, insect larvae, amphibians, various invertebrates, birds and small mammals.

3. **Characteristics of all wetlands adjacent to the tributary (if any)**

All wetland(s) being considered in the cumulative analysis: **20-25**

Approximately (150) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>	<u>Directly abuts? (Y/N)</u>	<u>Size (in acres)</u>
G3	N		1.22
H4	N		3.84
J3	N		7.06
K6	Y		2.44
H7	Y		47.18
H10	N		1.73
H11	N		0.89

Summarize overall biological, chemical and physical functions being performed: Water storage and attenuation, filtration, water quality treatment, fish and wildlife habitat, nutrient uptake and storage..

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
3. **Significant nexus findings for wetlands adjacent to an RPW.** (See note below) Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

*Note: On 1 December 2008, the US Supreme Court declined to hear the *McWane/Robison* case. This case involved a federal appeals court (11th Circuit) ruling that had the effect of overturning a criminal conviction of an industrial pipe manufacturer found guilty of illegally dumping oil, lead, zinc, grease and other pollutants into Avondale Creek in Alabama, a permanently flowing stream that eventually flows into the navigable Black Warrior River. The appeals court overturned the case because they interpreted the *Rapanos* decision as requiring a significant nexus determination on all waters except TNWs and wetlands adjacent to the TNWs, and in this case, a SND was not performed on Avondale Creek, an RPW.*

*The 2 December 2008 *Rapanos* guidance acknowledges (footnote 16, bottom of page 3) the Supreme Court's refusal to hear the *McWane/Robison* case. Therefore, in the 11th Circuit (Florida, Georgia, and Alabama) the *McWane/Robison* decision, which contradicted the June 2007 *Rapanos* Guidance concerning jurisdiction of RPWs and wetlands directly abutting RPWs, is final. Therefore, when performing an approved JD, the Corps must perform a significant nexus determination on ALL waters and wetlands except for TNWs and wetlands adjacent to TNWs.*

Significant nexus determination for New River and its adjacent wetlands:

Physical: The project wetlands (both cypress and freshwater marsh) flow south through a series of interconnected agricultural ditches that connect to Bassett Branch, a tributary (RPW) of the Hillsborough River (TNW). The wetlands perform important flow maintenance functions including storage of flood waters^{1,2} and a release of these waters into the tributary in a more even and consistent manner². Therefore, the wetlands directly affect the duration, frequency, and volume of flow in the tributary and the downstream navigable water². The wetlands reduce local flooding¹. Storage of surface waters provides groundwater recharge that contributes to baseflow in the tributary that is vital to sustain aquatic life in downstream waters¹. These wetlands offer the following benefits to downstream aquatic resources: reduction of downstream peak discharge and volume, recharge of aquifers, maintenance of seasonal/baseflows, maintenance of groundwater supplies¹. Cypress swamps appear to have lower evapotranspiration rates than surrounding ecosystems and may, therefore, provide more recharge to the aquifer³.

Chemical: The wetlands improve water quality by removing sediment and nutrients that would otherwise reach downstream waters and have a negative effect on aquatic resources^{1,2}. The wetlands improve water quality by removing sediment and nutrients (particularly phosphorous and nitrogen) that would otherwise reach downstream waters and have a negative effect on aquatic resources^{1,2,3}. In general, almost all organic matter and nutrients from wastewater flows inflows are removed or stored within the substrate of the wetland¹.

Biological: The wetlands are of utmost importance biologically since the majority of other non-wetland areas in the watershed have been altered for agriculture, residential, or other purposes¹. These wetlands provide breeding grounds for species that cannot reproduce in faster-moving water and move between wetlands and uplands over their lifecycle¹. The wetland, along with the tributary system, provide wildlife habitat (e.g. feeding, nesting, spawning, rearing of young) for many aquatic species that live in traditional navigable waters². The wetlands also maintain a more consistent water temperature in tributaries, which is important to many aquatic species². These wetlands, along with the tributary system, provide wildlife habitat (e.g. feeding, nesting, spawning, rearing of young) for many aquatic species that live in traditional navigable waters². These wetlands have a diverse community of benthic invertebrates, a major food source for vertebrates³.

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:

- TNWs: linear feet width (ft), Or, acres.
 Wetlands adjacent to TNWs: acres.

2. RPWs that flow directly or indirectly into TNWs.

- Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial:
 Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: **Ditches hold water > 3 mo and form RPWS between wetlands.**

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: linear feet width (ft).
 Other non-wetland waters: **2.99** acres.
Identify type(s) of waters: **Ditches** .

3. Non-RPWs⁸ that flow directly or indirectly into TNWs.

- Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- Tributary waters: linear feet width (ft).
 Other non-wetland waters: acres.
Identify type(s) of waters: .

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.

- Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
 Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .
 Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly

⁸See Footnote # 3.

abutting an RPW: **Wetlands H7 and K6** overflow directly to the RPW during normal wet season. Wetland H7 and K6 is part of the wetland floodplain forest abutting the New River channel.

Provide acreage estimates for jurisdictional wetlands in the review area: **49.62** acres.

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.

- Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C. **Wetlands G3, H4, J3, H10, and H11**

Provide acreage estimates for jurisdictional wetlands in the review area: **14.74** acres.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.

- Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: _____ acres.

7. Impoundments of jurisdictional waters.⁹

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- Demonstrate that impoundment was created from “waters of the U.S.,” or
 Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
 Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

- which are or could be used by interstate or foreign travelers for recreational or other purposes.
 from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
 which are or could be used for industrial purposes by industries in interstate commerce.
 Interstate isolated waters. Explain: _____
 Other factors. Explain: _____

Identify water body and summarize rationale supporting determination: _____

Provide estimates for jurisdictional waters in the review area (check all that apply):

- Tributary waters: _____ linear feet _____ width (ft).
 Other non-wetland waters: _____ acres.
Identify type(s) of waters: _____
 Wetlands: _____ acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
 Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 Prior to the Jan 2001 Supreme Court decision in “SWANCC,” the review area would have been regulated based solely on the “Migratory Bird Rule” (MBR).
 Waters do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction. Explain: _____
 Other: (explain, if not covered above): _____

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- Non-wetland waters (i.e., rivers, streams): _____ linear feet _____ width (ft).
 Lakes/ponds: _____ acres.
 Other non-wetland waters: _____ acres. List type of aquatic resource: _____

⁹ To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

- Wetlands: **7.00** acres (**Wetlands J4, G11, F11, and I1**).

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply):

- Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
 Lakes/ponds: acres.
 Other non-wetland waters: acres. List type of aquatic resource: .
 Wetlands: acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: FDC
 Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 Office concurs with data sheets/delineation report.
 Office does not concur with data sheets/delineation report.
 Data sheets prepared by the Corps: .
 Corps navigable waters' study: .
 U.S. Geological Survey Hydrologic Atlas: .
 USGS NHD data.
 USGS 8 and 12 digit HUC maps.
 U.S. Geological Survey map(s). Cite scale & quad name: Wesley Chapel.
 USDA Natural Resources Conservation Service Soil Survey. Citation: NRCS online soil survey.
 National wetlands inventory map(s). Cite name: Google Earth Pro.
 State/Local wetland inventory map(s): .
 FEMA/FIRM maps: .
 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
 Photographs: Aerial (Name & Date): Google Earth Pro 1995-2010.
or Other (Name & Date): .
 Previous determination(s). File no. and date of response letter: .
 Applicable/supporting case law: .
 Applicable/supporting scientific literature: .
 Other information (please specify): .

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Wetland J4 is considered isolated and not adjacent because:

1. There is not an unbroken or shallow sub-surface connection to jurisdictional waters.
2. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like. The area around the wetland is undeveloped. The only activity has been removal of native vegetation and conversion to pasture and the construction of a dirt road and a residence to the southeast.
3. Its proximity to a jurisdictional water is not reasonably close. The nearest jurisdictional water is wetland K6 which is located approximately 400 feet from Wetland J4.

Wetland F11 is considered isolated and not adjacent because:

1. There is not an unbroken or shallow sub-surface connection to jurisdictional waters.
2. They are not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like. Wetland F11 is separated from downstream waters by improved pasture and farm roads.
3. Their proximity to a jurisdictional water is not reasonably close. The closest jurisdictional water are located to the west in the Bassett Branch basin and Wetland H11 to the east approximately 500 feet

Wetland G11 is considered isolated and not adjacent because:

1. There is not an unbroken or shallow sub-surface connection to jurisdictional waters. Note: Wetland G11 is connected to Wetland F11 via ditch. Wetland F11 has no defined hydrologic connection to other jurisdictional waters.
2. It is not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like. The area around the wetland is undeveloped. The only activity has been removal of native vegetation and conversion to pasture.

3. Its proximity to a jurisdictional water is not reasonably close. The nearest jurisdictional water is wetland H10 which is located approximately 150 feet east of Wetland G11.

Wetland I1 is considered isolated and not adjacent because:

1. There is not an unbroken or shallow sub-surface connection to jurisdictional waters. Field observation indicate that there is no apparent connection to other wetlands

2. They are not physically separated from jurisdictional waters by man-made dikes or barriers, natural river berms, beach dunes, and the like. The area around the wetland is undeveloped. The only activity has been removal of native vegetation and conversion to pasture.

Furthermore, Wetlands J4, G11, F11, and I1 could not affect interstate or foreign commerce because they do not contain such waters:

- a. Which are or could be used by interstate or foreign travelers for recreational or other purposes; or
- b. From which fish or shellfish are or could be taken and sold in interstate or foreign commerce; or
- c. Which are used or could be used for industrial purpose by industries in interstate commerce.

Ditches found to be non-jurisdictional did not contain water > 3 months out of the year.

Jurisdictional Ditches – Reach 2 – New River	
J3	0.33
H7-2	0.26
H7-3	0.25
H11	0.24
H10	0.10
TOTAL	1.18

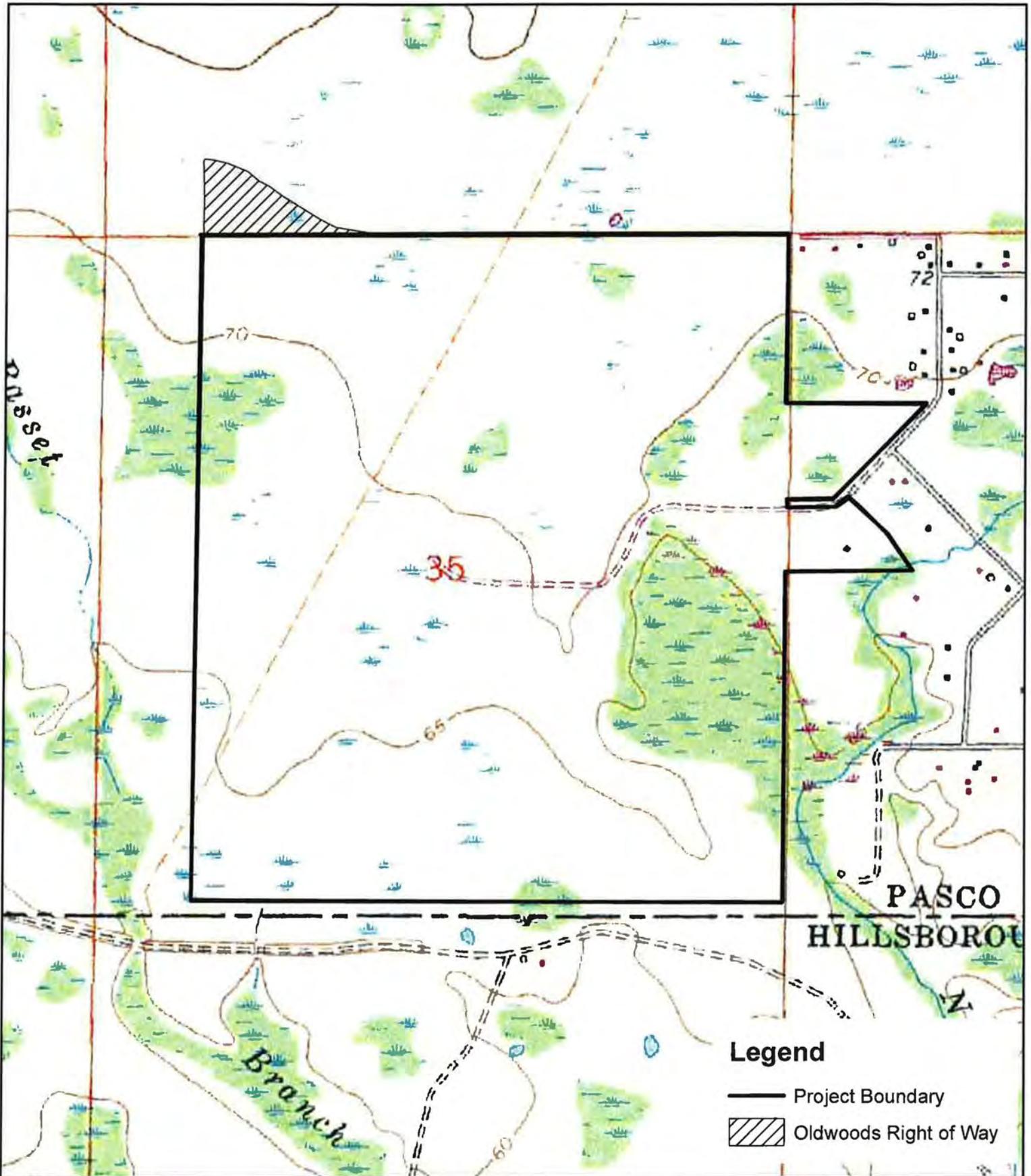
NON-Jurisdictional Ditches – Reach 2 – New River	
H4	0.74
F11	0.37
G11	0.79
TOTAL	1.9

GoldenRanch Wetland Summary		
Reach 1 Bassett Branch		
Jurisdictional - non-abutting	Wetland ID	Area (ac.)
	G1	5.64
	F2	0.65
	E4	2.38
	D6	1.63
	C7	5.31
	C9	0.37
	D11	3.57
	A10	3.03
	A8	2.48
	B6	0.38
	A5	1.31
	C2	0.91
	D1	0.18
	E10	0.21
	F8	0.17
E5	1.21	
D7	2.07	
Total		31.5
Jurisdictional -abutting	Wetland ID	Area (ac.)
	B11	4.10
	A3	11.25
	D6A	0.20
Total		15.55
Grand Total		47.05
Non-Jurisdictional	A7	0.56
	A1	0.31
	F5	1.82
	D2	0.04
Total		2.73

GoldenRanch Wetland Summary		
Reach 2 New River		
Jurisdictional - non-abutting	Wetland ID	Area (ac.)
	G3	1.22
	H4	3.84
	J3	7.06
	H10	1.73
	H11	0.89
Total		14.74
Jurisdictional -abutting	Wetland ID	Area (ac.)
	K6	2.44
	H7	47.18
Total		49.62
Grand Total		64.36
Non-Jurisdictional	J4	2.19
	G11	0.83
	F11	3.75
	I1	0.23
Total		7.00

Golden Ranch-Summary of Wetland Delineation Field Adjustments - March 8 and 9, 2012

Wetland ID	Wetland Point Number(s)	Description of Field Adjustment	Justification for Field Adjustment
G1	66001	Moved 66001 52 feet west.	To include area dominated by red maple in Wetland G1
	66002	Removed points 66002 and	
	66003	66003.Tie 66001 to 66004	
SWF-2	65240	Moved points 10' west	To include overflow area of ditch
	65241		
	65242		
A10	76669	Moved point 48 feet south	To exclude area of non-hydric soils and less than 50 percent OBL, FACW and FAC plant species
B11	76226	Moved point 46 feet north	Soil samples indicate presence of hydric soils along with FAC and FACW tree canopy
H7	73099	Moved point 73099 28' west and point 73102 20' west	Soil samples indicate presence of hydric soils along with FAC and FACW tree canopy
	73102		
H7	73076	Moved point 32 feet northwest	Soil samples indicate presence of hydric soils along with FAC and FACW tree canopy




 1 inch = 1,000 feet


FLORIDA DESIGN CONSULTANTS, INC.

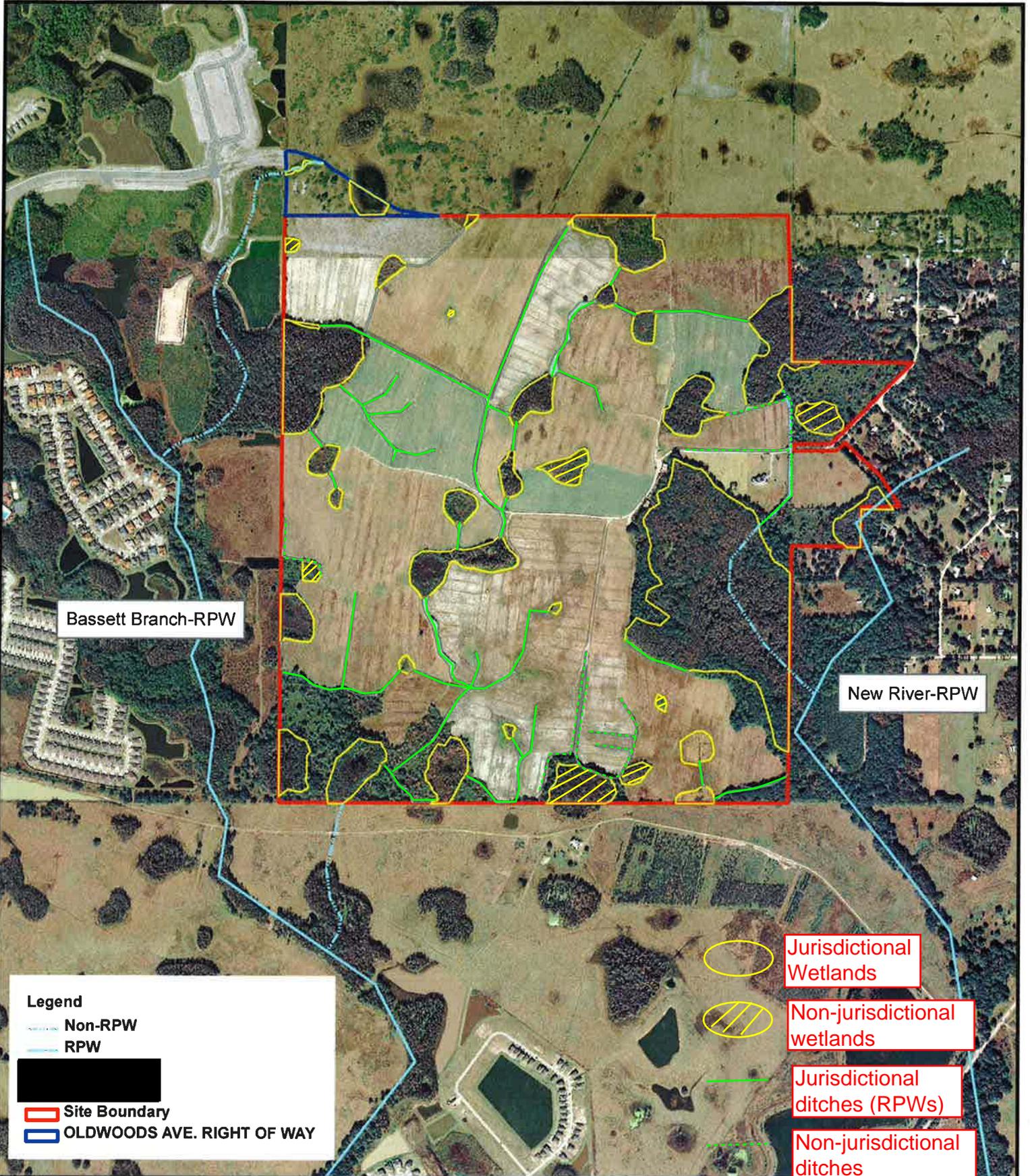
SOURCES
USGS 7.5 minute Quadrangle Maps

GIS DATA
This drawing is comprised of data obtained from a variety of sources. It is for informational purposes only and is not to be considered comprehensive for site-specific data.

GoldenRanch
 FIGURE 2-USGS QUAD MAP
 LAT 28.17651537
 LONG 82.27853927

prepared for

GoldenRanch Property, L.L.C.



Bassett Branch-RPW

New River-RPW

Legend

- Non-RPW
- RPW
- Site Boundary
- OLDWOODS AVE. RIGHT OF WAY

Jurisdictional Wetlands

Non-jurisdictional wetlands

Jurisdictional ditches (RPWs)

Non-jurisdictional ditches

1 inch = 1,159 feet

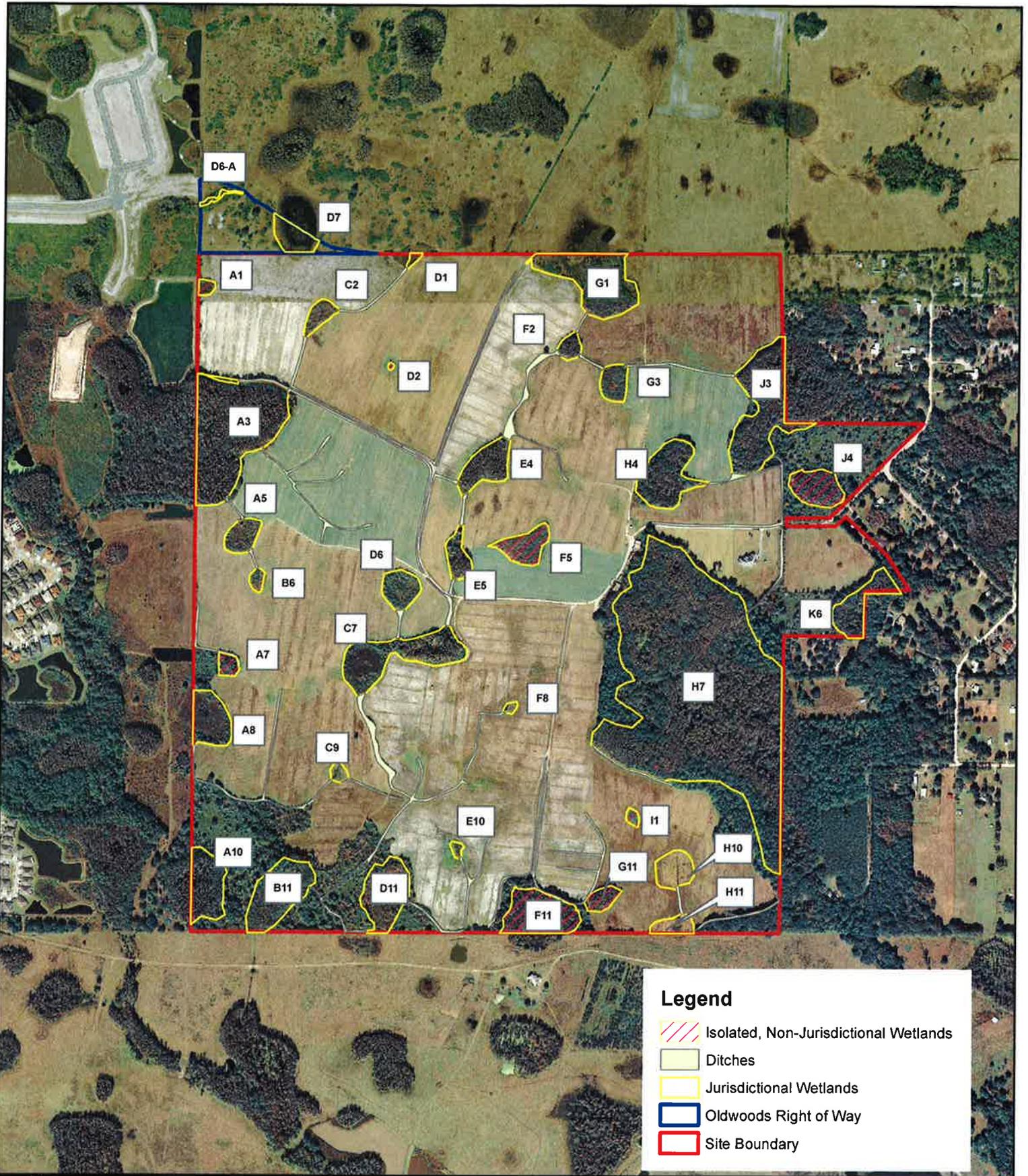


SOURCES
SWFWMD Soils

GIS DATA
This drawing is comprised of data obtained from a variety of sources. It is for informational purposes only and is not to be considered comprehensive for site-specific data.

GoldenRanch
FIGURE 2 SITE REACH MAP

prepared for
GoldenRanch Property, L.L.C.



Legend

- Isolated, Non-Jurisdictional Wetlands
- Ditches
- Jurisdictional Wetlands
- Oldwoods Right of Way
- Site Boundary

N
W E
S

1 inch = 1,000 feet

FLORIDA DESIGN CONSULTANTS, INC.

SOURCES
2010 Aerial Photography- SWFWMD

GIS DATA
This drawing is comprised of data obtained from a variety of sources. It is for informational purposes only and is not to be considered comprehensive for site-specific data.

GoldenRanch
FIGURE 6-JURISDICTIONAL MAP

prepared for
GoldenRanch Property, L.L.C.

SURVEYOR'S REPORT

MAP OF SPECIFIC PURPOSE SURVEY:

THE MAP AND REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER. (SEE SHEET INDEX IN TITLE BLOCK)

INTENT:

THE INTENT OF THIS SPECIFIC PURPOSE SURVEY IS TO SHOW THE HORIZONTAL RELATIONSHIP BETWEEN THE UNITED STATES ARMY CORP OF ENGINEERS (USACE) SURVEY CONTROL DELINEATION POINTS AS FIELD LOCATED BY FLORIDA DESIGN CONSULTANTS, INC. (SHOWN AS "110-1 THRU 110-14" AND "1-1 THRU 1-9" ON THE MAP OF SURVEY). SEE LIMITATIONS 1-1 AND JURISDICTIONAL DELINEATION POINTS PREVIOUSLY ESTABLISH BY KING ENGINEERING ASSOCIATES, INC. (AS OTHER JURISDICTIONAL POINTS. SEE LIMITATIONS 1-1 TO THE NATIONAL GEODETIC SURVEY (NGS), NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT (NAD 83/90), STATE PLANE COORDINATES SYSTEM, FLORIDA WEST ZONE 1584 DATA SOURCE 1) AND THAT CERTAIN BOUNDARY SURVEY REFERENCED IN DATA SOURCES 4

LEGAL DESCRIPTION:

1584 DATA SOURCES 3:

PARCEL 1

TRACT 68 OF THE UNRECORDED SUBDIVISION OF NEW RIVER RANCHETS UNIT 3, LYING IN SECTION 30, TOWNSHIP 26 SOUTH, RANGE 20 EAST, PASCO COUNTY, FLORIDA, AND BEING MORE FULLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF SAID SECTION 26 FOR A POINT OF BEGINNING; THENCE RUN NORTH 0°12'56" EAST, ALONG THE WEST LINE OF SAID SECTION 26, 525.00 FEET; THENCE DUE EAST, 280.64 FEET; THENCE 157.08 FEET ALONG THE ARC OF A CURVE TO THE LEFT, OF 270.00 FEET RADIUS, HAVING A CHORD OF 153.00 FEET, WHICH BEARS NORTH 87°50'00" WEST; THENCE SOUTH 89°00'00" EAST, 525.00 FEET; THENCE SOUTH 20°46'42" EAST, 258.28 FEET; THENCE DUE WEST 527.19 FEET TO THE POINT OF BEGINNING, LESS AND EXCEPT THE NORTHERLY 25 FEET DESCRIBED IN DEED RECORDED IN OFFICIAL RECORDS BOOK 714, PAGE 799, OF THE PUBLIC RECORDS OF PASCO COUNTY, FLORIDA.

PARCEL 11

NEW RIVER RANCHETS (UNRECORDED), UNIT 3, TRACT 65 LYING IN SECTION 36, TOWNSHIP 26 SOUTH, RANGE 20 EAST, PASCO COUNTY, FLORIDA, MAP PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF SAID SECTION 36; THENCE RUN NORTH 0°12'56" EAST, A DMS THE WEST LINE OF SAID SECTION 36, 525.00 FEET FOR A POINT OF BEGINNING; THENCE CONTINUE NORTH 0°12'56" EAST, 790.50 FEET; THENCE DUE EAST 1112.82 FEET; THENCE 61.40 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, SAID CURVE HAVING A RADIUS OF 270.00 FEET, HAVING A CHORD OF 90.00 FEET, WHICH BEARS SOUTH 33°19'42" WEST; THENCE SOUTH 45°00'00" WEST, 950.70 FEET; THENCE 101.08 FEET ALONG THE ARC OF A CURVE TO THE RIGHT, SAID CURVE HAVING A RADIUS OF 200.00 FEET AND A CHORD OF 53.00 FEET, WHICH BEARS SOUTH 67°33'00" WEST; THENCE DUE WEST 260.64 FEET TO THE POINT OF BEGINNING, LESS THE SOUTH 25 FEET AND THE SOUTHERLY 25 FEET OF TRACT 69 AS OFFSET TO PASCO COUNTY BY DEED RECORDED IN OFFICIAL RECORDS BOOK 714, PAGE 801.

PARCEL 111

BEING A PART OF TRACT 27 OF THE UNRECORDED SUBDIVISION OF NEW RIVER RANCHETS, UNIT 3, LYING IN SECTION 30, TOWNSHIP 26 SOUTH, RANGE 20 EAST, PASCO COUNTY, FLORIDA, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE WEST 1/4 CORNER OF SAID SECTION 30 FOR A POINT OF BEGINNING; THENCE EAST 632.21 FEET; THENCE S 01°57'55" W, 160.30 FEET; THENCE S 00°04'17" W, 160.00 FEET; THENCE WEST, 630.00 FEET; THENCE N 00°12'56" E, 345.51 FEET TO THE POINT OF BEGINNING.

PARCEL 1V

THE NORTHERN PORTION OF SECTION 35, TOWNSHIP 26 SOUTH, RANGE 20 EAST, PASCO COUNTY, FLORIDA, MORE FULLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHEAST CORNER OF SAID SECTION 35; THENCE SOUTH 89°50'01" WEST ALONG THE SOUTH LINE OF SAID SECTION 35, FOR A DISTANCE OF 2473.88 FEET TO THE SOUTH 1/4 CORNER OF SAID SECTION 35; THENCE SOUTH 89°50'11" WEST ALONG THE SOUTH LINE OF THE SOUTHWEST 1/4 OF SAID SECTION 35, FOR A DISTANCE OF 1883.45 FEET TO A LINE THAT IS 700.00 FEET EAST AND PARALLEL TO THE WEST LINE OF SAID SECTION 35; THENCE NORTH 0°12'16" EAST ALONG THE SAID PARALLEL LINE, FOR A DISTANCE OF 5286.34 FEET TO THE NORTH LINE OF THE NORTHWEST 1/4 OF SAID SECTION 35; THENCE SOUTH 89°57'46" EAST ALONG THE NORTH LINE OF SAID SECTION 35, FOR A DISTANCE OF 2091.40 FEET; THENCE SOUTH 0°11'17" WEST, FOR A DISTANCE OF 2642.64 FEET TO THE NORTH LINE OF THE NORTH 1/4 OF SAID SECTION 35; THENCE SOUTH 89°59'48" EAST ALONG THE SAID NORTH LINE OF THE SOUTHWEST 1/4 OF SAID SECTION 35, FOR A DISTANCE OF 2473.88 FEET TO THE EAST 1/4 CORNER OF SAID SECTION 35; THENCE SOUTH 0°10'08" WEST ALONG THE EAST LINE OF THE SE 1/4 OF SAID SECTION 35, FOR A DISTANCE OF 2642.64 FEET TO THE POINT OF BEGINNING.

PARCEL V

TRACT 1

THE EAST 2087.63 FEET OF THE NORTH 2086.58 FEET OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 26 SOUTH, RANGE 20 EAST, PASCO COUNTY, FLORIDA.

TOGETHER WITH A 60 FOOT EASEMENT FOR INGRESS, EGRESS AND UTILITIES (AS ESTABLISHED AND GRANTED BY DEED RECORDED IN OFFICIAL RECORDS BOOK 047, PAGE 943) CONSISTING OF LAND 11145.30 FEET EACH SIDE OF AND CONTIGUOUS TO A CENTERLINE 45 FEET WIDE:

FROM THE SE CORNER OF THE NE 1/4 OF SECTION 35, TOWNSHIP 26 SOUTH, RANGE 20 EAST, PASCO COUNTY, FLORIDA, RUN NORTH 0°07'39" EAST, ALONG THE EAST BOUNDARY OF SAID SECTION 35, A DISTANCE OF 525.00 FEET TO THE POINT OF BEGINNING OF SAID CENTERLINE OF EASEMENT; RUN THENCE NORTH 89°20'54" WEST, PARALLEL WITH THE NORTH BOUNDARY OF SAID SECTION 35,

A DISTANCE OF 3063.00 FEET TO THE POINT OF TERMINATION OF SAID CENTERLINE AND EASEMENT, SAID POINT OF TERMINATION BEING AT A POINT 700.00 FEET EASTERLY FROM THE WEST BOUNDARY OF SAID SECTION 35.

TRACT 2

THE PORTION OF THE NORTHEAST 1/4 OF SECTION 35, TOWNSHIP 26 SOUTH, RANGE 20 EAST, PASCO COUNTY, FLORIDA, MORE FULLY DESCRIBED AS FOLLOWS:

BEGIN AT THE EAST 1/4 CORNER OF SAID SECTION 35, THENCE NORTH 89°50'46" WEST ALONG THE EAST-WEST CENTERLINE OF SAID SECTION 35, FOR A DISTANCE OF 2473.88 FEET; THENCE NORTH 0°11'17" EAST ALONG A LINE PARALLEL TO THE NORTH-SOUTH CENTERLINE OF SAID SECTION 35, FOR A DISTANCE OF 7,462.00 FEET TO THE NORTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 35; THENCE SOUTH 89°58'07" EAST ALONG THE NORTH LINE OF THE NORTHEAST 1/4 OF SAID SECTION 35, FOR A DISTANCE OF 385.16 FEET, TO THE WEST LINE OF THE EAST 2087.63 FEET OF THE NORTH 2086.58 FEET OF THE NORTHEAST 1/4 OF SAID SECTION 35; THENCE SOUTH 0°10'14" WEST ALONG THE SAID WEST LINE OF THE EAST 2087.63 FEET OF THE NORTH 2086.58 FEET OF THE NORTHEAST 1/4 OF SAID SECTION 35, FOR A DISTANCE OF 2087.63 FEET TO THE SOUTH LINE OF THE EAST 2087.63 FEET OF THE NORTH 2086.58 FEET OF THE NORTHEAST 1/4 OF SAID SECTION 35; THENCE SOUTH 89°58'23" EAST ALONG THE SOUTH LINE OF THE EAST 2087.63 FEET OF THE NORTH 2086.58 FEET OF THE NORTHEAST 1/4 OF SAID SECTION 35, FOR A DISTANCE OF 2087.63 FEET TO THE EAST LINE OF THE NORTHEAST 1/4 OF SAID SECTION 35; THENCE SOUTH 0°00'49" WEST ALONG THE EAST LINE OF THE NORTHEAST 1/4 OF SAID SECTION 35, FOR A DISTANCE OF 504.90 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH (SEE DATA SOURCES 3 AND 7)

A PORTION OF SECTION 26, TOWNSHIP 26 SOUTH, RANGE 20 EAST, PASCO COUNTY, FLORIDA, BEING DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHWEST CORNER OF SAID SECTION 26, AND RUN S. 61°58'23" E., ALONG THE SOUTH BOUNDARY LINE OF SAID SECTION 26, 170.19 FEET FOR A POINT OF BEGINNING; THENCE, LEAVING SAID SOUTH BOUNDARY LINE IN 0°01'01" E., 574.54 FEET; THENCE ALONG A NON-TANGENT CURVE TO THE RIGHT, HAVING A RADIUS OF 1097.92 FEET, AN ARC LENGTH OF 722.65 FEET, A CHORD LENGTH OF 708.64 FEET AND A CHORD BEARING OF S 70°00'00" W.; THENCE S 81°58'14" E., 118.64 FEET; THENCE ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 1275.24 FEET, AN ARC LENGTH OF 799.53 FEET, A CHORD LENGTH OF 706.46 FEET AND A CHORD BEARING OF S 69°58'38" E., TO THE SAID SOUTH BOUNDARY LINE OF SECTION 26; THENCE N 89°08'20" W., ALONG SAID SOUTH BOUNDARY LINE 150.00 FEET TO THE POINT OF BEGINNING.

ACCURACY:

1. THE ACCURACY STANDARD USED FOR THIS SURVEY, AS CLASSIFIED IN THE MINIMUM TECHNICAL STANDARDS (50-172 FAC), IS "COMMERCIAL/HIGH RISK" THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF SURVEY IS 1:1000 IN 10,000 FEET.

2. THE PRIMARY CONTROL POINT POSITIONS FOR THIS SURVEY WERE ESTABLISHED FROM A MINIMUM OF TWO (2) KNOWN NATIONAL GEODETIC SURVEY (NGS) CONTROL POINTS (SEE DATA SOURCES 3) USING GLOBAL POSITIONING METHODS WITH REAL TIME KILOMETRIC SESSIONS THE MAXIMUM POSITIVE UNCERTAINTY OF THE PHYSICAL PRIMARY CONTROL POINTS IS CONSIDERED TO BE 0.020 FEET (6.34 MILLIMETERS) USING ELECTRONIC SIM MEANS OF THE PROCESSED POSITIONS.

3. THE HORIZONTAL POSITIONS OF THE FLORIDA DESIGN CONSULTANTS, INC. FIELD LOCATED JURISDICTIONAL POINTS (SEE INTENT) SHOWN ON THE MAP OF SURVEY WAS PERFORMED UTILIZING USING A TOPCON G300 ELECTRONIC TOTAL STATION IN CONJUNCTION WITH A TRIPOD DATA SYSTEMS, INC. RECON FANU FIELD COMPUTER WITH SURVEY PRO VERSION 4.0, FROM THE ORIGINAL NO BOUNDARY CORNER POINTS.

4. HORIZONTAL CONTROL MEASUREMENTS WERE MADE WITH A TRANSIT AND STEEL TAPE, OR DEVICES WITH EQUIVALENT OR HIGHER DEGREES OF ACCURACY.

DATA SOURCES:

1. COORDINATES FOR THIS SURVEY (IN U.S. SURVEY FEET) ARE BASED ON THE NATIONAL GEODETIC SURVEY (NGS), STATE PLANE COORDINATES, FLORIDA WEST ZONE, NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT. CONTROL MONUMENTS UTILIZED ARE: (A) FOUND 3/4" IRON ROD WITH PLUNCH BOX, INSHIE METAL CASING, LID STAMPED "251 132 1991", DESIGNATED BY NGS AS "251 132", PID # ALB166 (NORTHING = 1,396,597.11, EASTING = 574,179.383) AND (B) FOUND 3/4" IRON ROD WITH PLUNCH BOX, INSHIE METAL CASING, LID STAMPED "253 13 1991", DESIGNATED BY NGS AS "253 13", PID # ALB165 (NORTHING = 1,395,050.46, EASTING = 572,179.47). CONTROL MONUMENTS ARE AS PUBLISHED BY THE NATIONAL GEODETIC SURVEY WEB SITE (HTTP://WWW.NGS.NOAA.GOV).

2. THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALCULATED α BETWEEN THE NOS CONTROL STATIONS 141 AND 142 REFERENCED IN DATA SOURCES 1, BEING 848°51'47", NOT SHOWN ON THE MAP OF SURVEY.

3. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMENT THE LEGAL DESCRIPTION SHOWN HEREIN IS AS IT APPEARS ON THAT CERTAIN BOUNDARY SURVEY REFERENCED IN DATA SOURCES 4, AND CERTAIN EXHIBIT A REFERENCED IN DATA SOURCES 7.

4. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF THAT CERTAIN BOUNDARY SURVEY TITLED "GRIMLEY PROPERTY", PREPARED BY KING ENGINEERING ASSOCIATES, INC. JOB NUMBER 4684-100-100, DATED 1/25/10, LAST REVISED 6/24/2010 (SHOWN AS 151) ON THE MAP OF SURVEY.

5. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF THAT CERTAIN SPECIFIC PURPOSE JURISDICTIONAL SURVEY TITLED "GRIMLEY PROPERTY", PREPARED BY KING ENGINEERING ASSOCIATES, INC. JOB NUMBER 3942-142-000, DATED 12/12/06, LAST REVISED 11/7/07, TOGETHER WITH AN ELECTRONIC DRAWING FILE ON THE SAME.

6. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF THAT CERTAIN TOPOGRAPHIC SURVEY TITLED "BARRANVILLE", PREPARED BY FLORIDA DESIGN CONSULTANTS, INC. JOB NUMBER 0047-0017, LAST DATE OF ORIGINAL FIELD WORK 1-11-2010.

Sections 28, 35 & 36, Township 26 South, Range 20 East, Pasco County, Florida

7. THIS SURVEY WAS PREPARED WITH THE BENEFIT OF THAT CERTAIN EXHIBIT A, REVISED 6/20/005 AVENUE R O W AREA WYNFIELD/GOLDENRANCH, BOUNDARY PLAN AND DESCRIPTION OF LLOVERAS, BAUER & STEVENS, JOB No.27148 DATED 3-10-12 (SHOWN AS 151) ON THE MAP OF SURVEY.

LIMITATIONS:

1. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR/CERTIFIED TO WILL BE THE RE-USER'S SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.

2. THERE MAY BE ADDITIONAL EASEMENTS AND/OR RESTRICTIONS AFFECTING THIS PROPERTY THAT MAY OR MAY NOT BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. NO EASEMENTS ARE SHOWN ON THE MAP OF SURVEY.

3. ORIGINAL FIELD WORK WAS PERFORMED ON 3-0-2011 AND IS CONTAINED IN FIELD BOOK 1289, PAGE 58. REVISION 1 FIELD WORK WAS PERFORMED ON 1-17-2012 AND IS CONTAINED IN FIELD BOOK 1578, PAGES 5 AND 6. NO FIELD WORK PERFORMED FOR REVISION 2.

4. PRINTED DIMENSIONS SHOWN ON THE SURVEY SUPERSEDE SAID DIMENSIONS. THERE MAY BE FIELD DIMENSIONS OF SCALE TO GRAPHICALLY SHOW FIELD LOCATIONS.

5. CALCULATED (C) SECURITY SHOWN HEREON WAS CALCULATED USING FIELD LOCATED POINTS AND CERTAIN PUBLIC DATA (SEE DATA SOURCES).

6. SHOWN ANYWHERE ON THIS SURVEY, THE WORD "CERTIFY" IS UNDERSTOOD TO BE AN EXPRESSION OF A PROFESSIONAL OPINION BASED UPON THE SURVEYOR'S BEST KNOWLEDGE, INFORMATION AND BELIEF, AND THAT IT DOES NOT CONSTITUTE NEITHER A GUARANTEE NOR A WARRANTY.

7. NO INFORMATION ON PROPERTY OWNERS, RIGHTS-OF-WAY OR EASEMENTS WAS SUPPLIED TO THE SURVEYOR.

8. THIS IS NOT A BOUNDARY SURVEY. CORNER MONUMENT LOCATIONS WERE MADE SOLELY TO FACILITATE THE ESTABLISHMENT OF THE BOUNDARY, EASEMENT, RIGHT-OF-WAY AND JURISDICTIONAL DELINEATION POINT INFORMATION CONTAINED WITHIN THE ELECTRONIC DRAWING FILE REFERENCED IN DATA SOURCES 5. CERTAIN SURVEYS REFERENCED IN DATA SOURCES 4, AND CERTAIN EXHIBIT A REFERENCED IN DATA SOURCES 7.

9. NO MAPPING WAS PERFORMED FOR THIS SURVEY (SEE INTENT).

10. ALL BOUNDARY, RIGHT-OF-WAY AND EASEMENT INFORMATION SHOWN ON THE MAP OF SURVEY IS SOLELY BASED UPON THAT CERTAIN BOUNDARY SURVEY REFERENCED IN DATA SOURCES 4, AND CERTAIN EXHIBIT A REFERENCED IN DATA SOURCES 7. FLORIDA DESIGN CONSULTANTS, INC. AND THE SIGNING SURVEYOR DO NOT GUARANTEE THE VALIDITY OF SAID INFORMATION OTHER THAN CONFORMANCE TO SAID SURVEY. THE EXACT PARCEL BOUNDARY LINES ARE SUBJECT TO AN ACCURATE FIELD LAYOUT SURVEY.

11. JURISDICTIONAL DELINEATION POINT LOCATIONS SHOWN AS "110-1 THRU 110-14" AND "1-1 THRU 1-9" ON THE MAP OF SURVEY WERE DETERMINED IN THE FIELD BY JAMES HUNTING OF FLORIDA DESIGN CONSULTANTS, INC. ON 3-7-2011. JURISDICTIONAL DELINEATION POINT LOCATIONS SHOWN AS "M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20, M21, M22, M23, M24, M25, M26, M27, M28, M29, M30, M31, M32, M33, M34, M35, M36, M37, M38, M39, M40, M41, M42, M43, M44, M45, M46, M47, M48, M49, M50, M51, M52, M53, M54, M55, M56, M57, M58, M59, M60, M61, M62, M63, M64, M65, M66, M67, M68, M69, M70, M71, M72, M73, M74, M75, M76, M77, M78, M79, M80, M81, M82, M83, M84, M85, M86, M87, M88, M89, M90, M91, M92, M93, M94, M95, M96, M97, M98, M99, M100" ON THE MAP OF SURVEY WERE DETERMINED IN THE FIELD BY JAMES HUNTING OF FLORIDA DESIGN CONSULTANTS, INC. ON 1-17-2012. THE FLAGGED FIELD JURISDICTIONAL DELINEATION POINTS WERE FIELD LOCATED BY FLORIDA DESIGN CONSULTANTS, INC. DURING THE FIELD WORK FOR THIS SURVEY (SEE LIMITATIONS 3).

12. ALL JURISDICTIONAL DELINEATION POINTS SHOWN BY "POINT NUMBERS" (BEING ALL JURISDICTIONAL POINTS SHOWN ON THE MAP OF SURVEY EXCEPT "110-1 THRU 110-14" AND "1-1 THRU 1-9") ON THE MAP OF SURVEY ARE SOLELY BASED UPON THAT CERTAIN BOUNDARY SURVEY AND ELECTRONIC DRAWING FILE REFERENCED IN DATA SOURCES 5. FLORIDA DESIGN CONSULTANTS, INC. AND THE UNDERSIGNED SURVEYOR DOES NOT GUARANTEE THE VALIDITY OF SAID SURVEY INFORMATION PREPARED BY KING ENGINEERING ASSOCIATES, INC. OTHER THAN CONFORMANCE TO SAID ELECTRONIC DRAWING FILE. IT APPEARS TO BE SAME AS THE SURVEY REFERENCED IN DATA SOURCES 6.

13. A SCALE FACTOR OF 0.999950323619 SHOULD BE CONSIDERED DURING GROUND EFFORTS.

BOUNDARY INCONSISTENCIES:

NO INCONSISTENCY. THIS IS NOT A BOUNDARY SURVEY.

APPARENT PHYSICAL USE:

THE LIMITS OF THIS PROJECT LIE WITHIN SECTIONS 26, AND 36, TOWNSHIP 26 SOUTH, RANGE 20 EAST, PASCO COUNTY FLORIDA.

EASEMENTS/RIGHT-OF-WAYS:

1. SEE DATA SOURCES 5.

2. SEE LIMITATIONS 7.

3. SEE LIMITATIONS 10.

4. NEITHER BOUNDARY, EASEMENT NOR RIGHT-OF-WAY INFORMATION WAS PROVIDED TO THE SURVEYOR. ALL BOUNDARY, EASEMENT AND RIGHT-OF-WAY INFORMATION IS PER THE REFERENCED SURVEYS HEREON (SEE LIMITATIONS 8 AND 10).

PREPARED FOR:

GOLDENRANCH PROPERTY, LLC

CERTIFIED TO:

GOLDENRANCH PROPERTY, LLC
JACKSONVILLE DISTRICT CORPS OF ENGINEERS

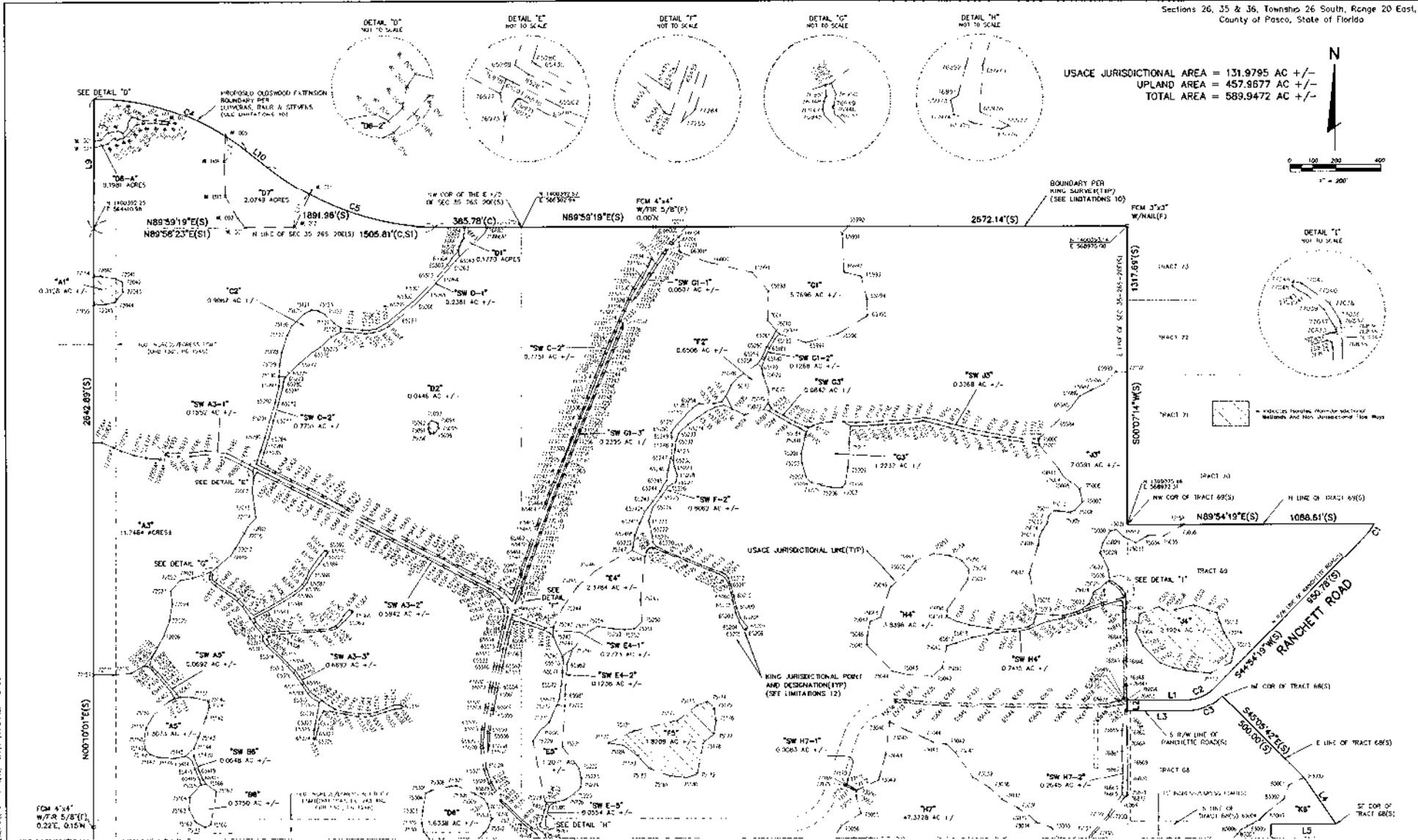
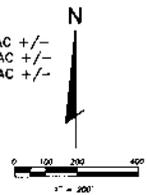
SURVEYOR AND MAPPER IN RESPONSIBLE CHARGE:

HORRIGAN, JAMES H.
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NUMBER 15 4565
STATE OF FLORIDA

Professional seal and title block for Florida Design Consultants, Inc. Includes company name, address (4070 Shiloh Dr., New Port Richey, FL 34655), phone (772) 843-2505, fax (772) 843-2506, and Florida State of Florida registration information. The seal is for James H. Horrigan, License No. 15 4565, State of Florida. The title block contains the project name 'SPECIFIC PURPOSE SURVEY FOR USAGE DELIVERY' and a table with columns for 'DATE', 'DESCRIPTION', 'BY', and 'CHECKED BY'. The table has two rows: one for '1-1-2011' and '2-1-2012' with descriptions of the survey and map preparation, and another row for '1-1-2011' with a description of the map preparation. The bottom right of the form contains a signature of James H. Horrigan and a date of 1-1-2011.

Sections 26, 35 & 36, Township 26 South, Range 20 East,
County of Pasco, State of Florida

USAGE JURISDICTIONAL AREA = 131.9795 AC +/-
UPLAND AREA = 457.8677 AC +/-
TOTAL AREA = 589.9472 AC +/-



NOTE: UTILITIES (POWER, TELEPHONE, CABLE, GAS, WATER) LOCATIONS SHOWN AS 'X' ON THE MAP OF SURVEY WERE NOT SURVEYED BY FDC.

MATCH LINE - SEE SHEET 4

1:111 - PER PARAGRAPH 4, REVISED DEEDWOODS AVENUE R.O.W. AREA W/ADJUTED/CO-OP FROM BOUNDARY PER RING SURVEY (11P) BY LLOYD R. SMITH & STEVEN S. JOHNSON DATED 3-16-72

THIS IS NOT A BOUNDARY SURVEY. THE MAP AND THE REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER PARTS OF THIS SURVEY.

FLORIDA DESIGN CONSULTANTS, INC.
ENGINEERS, ENVIRONMENTALISTS, SURVEYORS & PLANNERS
2030 Stanley Blvd., N.E. 1st Floor, Ft. Lauderdale, FL 33305
Tel: (305) 849-7200 Fax: (305) 849-3648
Certificate of Authorization: LB 6707
State of Florida

GOLDENRANCH
PASCO COUNTY, FLORIDA

SPECIFIC PURPOSE SURVEY
FOR USAGE DELINEATION

NO.	REVISION	DATE	BY	CHKD.	APP'D.
1	2-15-2002	REVISION PER COMMENTS	LD	SDP	
2	1-11-2002	ADD PROPOSED DEEDWOODS AVENUE R.O.W. AND RESURVEY PER COMMENTS	LD	SDP	

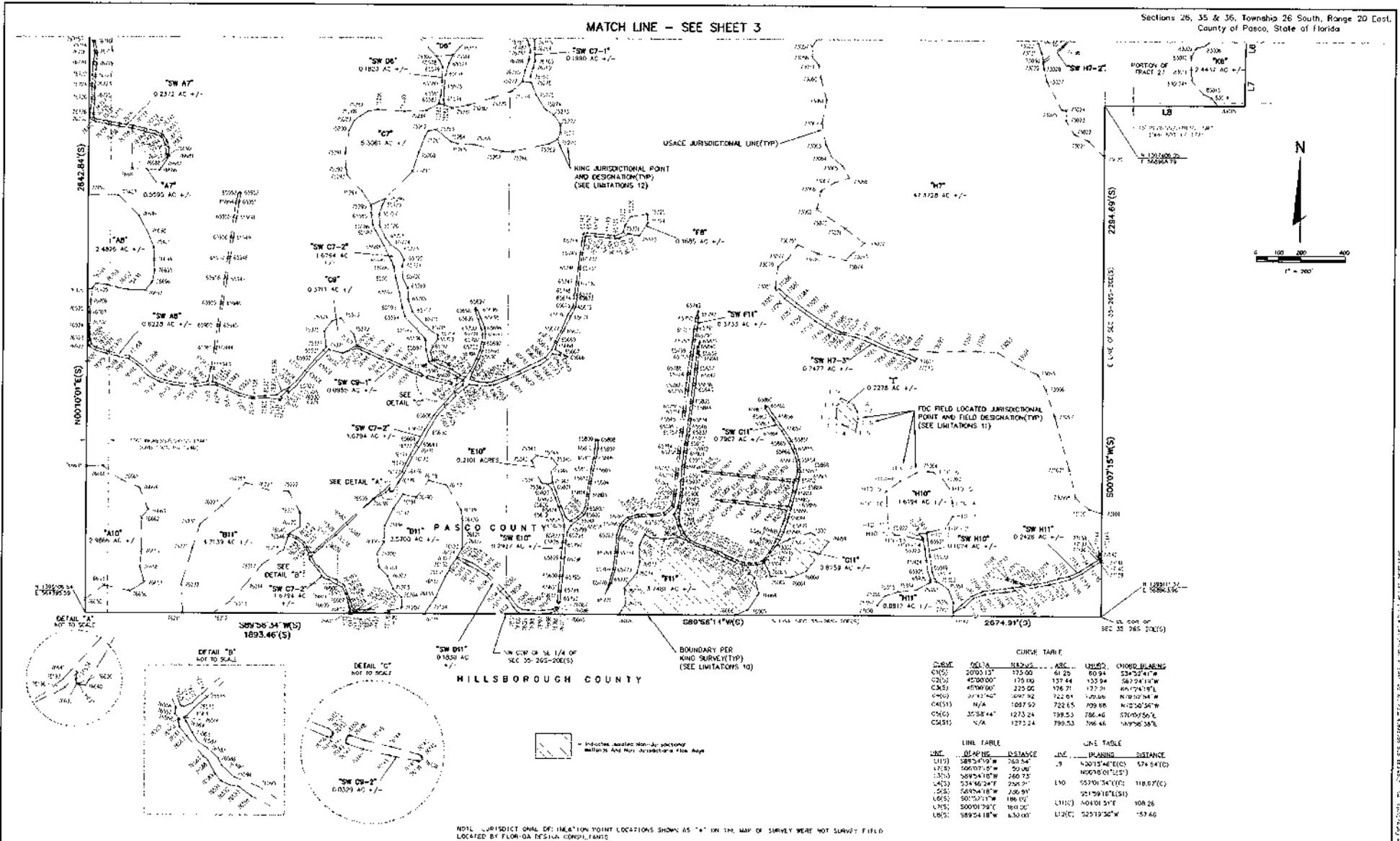
FORREST C. WARDEN, JR.
PROFESSIONAL SURVEYOR AND MAPPER
LICENSE NO. 12434
STATE OF FLORIDA

3

7

MATCH LINE - SEE SHEET 3

Sections 26, 35 & 36, Township 26 South, Range 20 East,
County of Pasco, State of Florida



CURVE	DELTA	CHORD	ASC.	UNID.	CHORD BEARING
CW(S)	2070.13'	175.00'	61.25'	60.94'	S34°32'41"W
CW(S)	45200.00'	125.00'	137.44'	133.94'	S87°24'14"W
CW(S)	45900.00'	225.00'	176.71'	172.79'	S87°24'14"W
CW(S)	2742.40'	1697.92'	722.04'	705.06'	N10°10'34"W
CW(S)	N/A	1087.50'	722.65'	709.08'	N10°10'34"W
CW(S)	35538.44'	1273.24'	789.53'	786.46'	S70°59'50"E
CW(S)	N/A	1273.24'	789.53'	786.46'	S70°59'50"E

LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
1(S)	S89°24'19"W	760.34'	3	S40°11'46"E(C)	574.64(C)
1(S)	S00°00'00"W	50.00'		N00°10'01"E(S)	
1(S)	S89°24'18"W	260.73'	1(S)	S55°00'34"E(C)	118.67(C)
1(S)	S34°46'24"W	206.29'		S21°59'16"E(S)	
1(S)	S89°24'18"W	206.81'		N40°01'51"E	108.26'
1(S)	S01°52'17"W	186.02'		S25°19'32"W	57.46'
1(S)	S00°01'28"E	184.30'			
1(S)	S89°24'18"W	630.00'			

NOTE: JURISDICTIONAL DESIGNATION POINT LOCATIONS SHOWN AS "*" ON THE MAP OF SURVEY WERE NOT SURVEY FIELD LOCATED BY FLORIDA DESIGN CONSULTANTS

THIS IS NOT A BOUNDARY SURVEY
THE MAP AND THE REPORT ARE NOT FULL AND COMPLETE WITHOUT THE OTHER

FLORIDA DESIGN CONSULTANTS, INC.
ENGINEERS, ENVIRONMENTALISTS, SURVEYORS & PLANNERS
11000 Parkway Blvd., Suite 1000, Orlando, FL 32826
Tel: 407-306-7218 Fax: 407-306-8040
Certificate of Authorization: LB 6707
State of Florida

GOLDENRANCH
PASCO COUNTY, FLORIDA

SPECIFIC PURPOSE SURVEY
FOR USACE DELINEATION

NO.	DATE	DESCRIPTION	BY	CHECKED
1	3-11-2011	FIELD SURVEY		
2	3-11-2011	FIELD SURVEY		
3	3-11-2011	FIELD SURVEY		
4	3-11-2011	FIELD SURVEY		

DATE: 3-11-2011
PROJECT NO: 207
JOB NO: 1288 / 04
DRAWN BY: R. W. BROWN
CHECKED BY: R. W. BROWN
DATE: 3-11-2011
SCALE: 1" = 200'
SHEET: 4 OF 7

USACE DELINEATION POINT COORDINATE TABLE

MAP 83/90 (IN US SURVEY FEET)

(SEE DATA SOURCES 1 AND LIMITATIONS 1 & 12)

DESC	NORTHING	EASTING									
65446	130900.04	566212.42	65539	130574.35	566212.05	65715	130638.77	566393.63	65799	130555.66	566377.63
65447	130902.53	566210.55	65540	130576.11	566198.52	65716	130640.44	566393.63	65800	130555.66	566377.63
65448	130906.10	566210.55	65541	130579.23	566106.86	65717	130643.00	566393.63	65801	130555.66	566377.63
65449	130910.42	566210.55	65542	130582.24	566111.89	65718	130645.57	566393.63	65802	130555.66	566377.63
65450	130914.74	566210.55	65543	130585.26	566116.92	65719	130648.14	566393.63	65803	130555.66	566377.63
65451	130919.06	566210.55	65544	130588.28	566121.95	65720	130650.71	566393.63	65804	130555.66	566377.63
65452	130923.38	566210.55	65545	130591.30	566126.98	65721	130653.28	566393.63	65805	130555.66	566377.63
65453	130927.69	566210.55	65546	130594.32	566132.01	65722	130655.85	566393.63	65806	130555.66	566377.63
65454	130932.00	566210.55	65547	130597.34	566137.04	65723	130658.42	566393.63	65807	130555.66	566377.63
65455	130936.31	566210.55	65548	130600.36	566142.07	65724	130660.99	566393.63	65808	130555.66	566377.63
65456	130940.62	566210.55	65549	130603.38	566147.10	65725	130663.56	566393.63	65809	130555.66	566377.63
65457	130944.93	566210.55	65550	130606.40	566152.13	65726	130666.13	566393.63	65810	130555.66	566377.63
65458	130949.24	566210.55	65551	130609.42	566157.16	65727	130668.70	566393.63	65811	130555.66	566377.63
65459	130953.55	566210.55	65552	130612.44	566162.19	65728	130671.27	566393.63	65812	130555.66	566377.63
65460	130957.86	566210.55	65553	130615.46	566167.22	65729	130673.84	566393.63	65813	130555.66	566377.63
65461	130962.17	566210.55	65554	130618.48	566172.25	65730	130676.41	566393.63	65814	130555.66	566377.63
65462	130966.48	566210.55	65555	130621.50	566177.28	65731	130678.98	566393.63	65815	130555.66	566377.63
65463	130970.79	566210.55	65556	130624.52	566182.31	65732	130681.55	566393.63	65816	130555.66	566377.63
65464	130975.10	566210.55	65557	130627.54	566187.34	65733	130684.12	566393.63	65817	130555.66	566377.63
65465	130979.41	566210.55	65558	130630.56	566192.37	65734	130686.69	566393.63	65818	130555.66	566377.63
65466	130983.72	566210.55	65559	130633.58	566197.40	65735	130689.26	566393.63	65819	130555.66	566377.63
65467	130988.03	566210.55	65560	130636.60	566202.43	65736	130691.83	566393.63	65820	130555.66	566377.63
65468	130992.34	566210.55	65561	130639.62	566207.46	65737	130694.40	566393.63	65821	130555.66	566377.63
65469	130996.65	566210.55	65562	130642.64	566212.49	65738	130696.97	566393.63	65822	130555.66	566377.63
65470	130999.96	566210.55	65563	130645.66	566217.52	65739	130699.54	566393.63	65823	130555.66	566377.63
65471	131004.27	566210.55	65564	130648.68	566222.55	65740	130702.11	566393.63	65824	130555.66	566377.63
65472	131008.58	566210.55	65565	130651.70	566227.58	65741	130704.68	566393.63	65825	130555.66	566377.63
65473	131012.89	566210.55	65566	130654.72	566232.61	65742	130707.25	566393.63	65826	130555.66	566377.63
65474	131017.20	566210.55	65567	130657.74	566237.64	65743	130709.82	566393.63	65827	130555.66	566377.63
65475	131021.51	566210.55	65568	130660.76	566242.67	65744	130712.39	566393.63	65828	130555.66	566377.63
65476	131025.82	566210.55	65569	130663.78	566247.70	65745	130714.96	566393.63	65829	130555.66	566377.63
65477	131030.13	566210.55	65570	130666.80	566252.73	65746	130717.53	566393.63	65830	130555.66	566377.63
65478	131034.44	566210.55	65571	130669.82	566257.76	65747	130720.10	566393.63	65831	130555.66	566377.63
65479	131038.75	566210.55	65572	130672.84	566262.79	65748	130722.67	566393.63	65832	130555.66	566377.63
65480	131043.06	566210.55	65573	130675.86	566267.82	65749	130725.24	566393.63	65833	130555.66	566377.63
65481	131047.37	566210.55	65574	130678.88	566272.85	65750	130727.81	566393.63	65834	130555.66	566377.63
65482	131051.68	566210.55	65575	130681.90	566277.88	65751	130730.38	566393.63	65835	130555.66	566377.63
65483	131055.99	566210.55	65576	130684.92	566282.91	65752	130732.95	566393.63	65836	130555.66	566377.63
65484	131060.30	566210.55	65577	130687.94	566287.94	65753	130735.52	566393.63	65837	130555.66	566377.63
65485	131064.61	566210.55	65578	130690.96	566292.97	65754	130738.09	566393.63	65838	130555.66	566377.63
65486	131068.92	566210.55	65579	130693.98	566298.00	65755	130740.66	566393.63	65839	130555.66	566377.63
65487	131073.23	566210.55	65580	130697.00	566303.03	65756	130743.23	566393.63	65840	130555.66	566377.63
65488	131077.54	566210.55	65581	130700.02	566308.06	65757	130745.80	566393.63	65841	130555.66	566377.63
65489	131081.85	566210.55	65582	130703.04	566313.09	65758	130748.37	566393.63	65842	130555.66	566377.63
65490	131086.16	566210.55	65583	130706.06	566318.12	65759	130750.94	566393.63	65843	130555.66	566377.63
65491	131090.47	566210.55	65584	130709.08	566323.15	65760	130753.51	566393.63	65844	130555.66	566377.63
65492	131094.78	566210.55	65585	130712.10	566328.18	65761	130756.08	566393.63	65845	130555.66	566377.63
65493	131099.09	566210.55	65586	130715.12	566333.21	65762	130758.65	566393.63	65846	130555.66	566377.63
65494	131103.40	566210.55	65587	130718.14	566338.24	65763	130761.22	566393.63	65847	130555.66	566377.63
65495	131107.71	566210.55	65588	130721.16	566343.27	65764	130763.79	566393.63	65848	130555.66	566377.63
65496	131112.02	566210.55	65589	130724.18	566348.30	65765	130766.36	566393.63	65849	130555.66	566377.63
65497	131116.33	566210.55	65590	130727.20	566353.33	65766	130768.93	566393.63	65850	130555.66	566377.63
65498	131120.64	566210.55	65591	130730.22	566358.36	65767	130771.50	566393.63	65851	130555.66	566377.63
65499	131124.95	566210.55	65592	130733.24	566363.39	65768	130774.07	566393.63	65852	130555.66	566377.63
65500	131129.26	566210.55	65593	130736.26	566368.42	65769	130776.64	566393.63	65853	130555.66	566377.63
65501	131133.57	566210.55	65594	130739.28	566373.45	65770	130779.21	566393.63	65854	130555.66	566377.63
65502	131137.88	566210.55	65595	130742.30	566378.48	65771	130781.78	566393.63	65855	130555.66	566377.63
65503	131142.19	566210.55	65596	130745.32	566383.51	65772	130784.35	566393.63	65856	130555.66	566377.63
65504	131146.50	566210.55	65597	130748.34	566388.54	65773	130786.92	566393.63	65857	130555.66	566377.63
65505	131150.81	566210.55	65598	130751.36	566393.57	65774	130789.49	566393.63	65858	130555.66	566377.63
65506	131155.12	566210.55	65599	130754.38	566398.60	65775	130792.06	566393.63	65859	130555.66	566377.63
65507	131159.43	566210.55	65600	130757.40	566403.63	65776	130794.63	566393.63	65860	130555.66	566377.63
65508	131163.74	566210.55	65601	130760.42	566408.66	65777	130797.20	566393.63	65861	130555.66	566377.63
65509	131168.05	566210.55	65602	130763.44	566413.69	65778	130800.77	566393.63	65862	130555.66	566377.63
65510	131172.36	566210.55	65603	130766.46	566418.72	65779	130803.34	566393.63	65863	130555.66	566377.63
65511	131176.67	566210.55	65604	130769.48	566423.75	65780	130805.91	566393.63	65864	130555.66	566377.63
65512	131180.98	566210.55	65605	130772.50	566428.78	65781	130808.48	566393.63	65865	130555.66	566377.63
65513	131185.29	566210.55	65606	130775.52	566433.81	65782	130811.05	566393.63	65866	130555.66	566377.63
65514	131189.60	566210.55	65607	130778.54	566438.84	65783	130813.62	566393.63	65867	130555.66	566377.63
65515	131193.91	566210.55	65608	130781.56	566443.87	65784	130816.19	566393.63	65868	130555.66	566377.63
65516	131198.22	566210.55	65609	130784.58	566448.90	65785	130818.76	566393.63	65869	130555.66	566377.63
65517	131202.53	566210.55	65610	130787.60	566453.93	65786	130821.33	566393.63	65870	130555.66	566377.63
65518	131206.84	566210.55	65611	130790.62	566458.96	65787	130823.90	566393.63	65871	130555.66	566377.63
65519	131211.15	566210.55	65612	130793.64	566463.99	65788	130826.47	566393.63	65872	130555.66	566377.63
65520	131215.46	566210.55	65613	130796.66	566469.02	65789	130829.04	566393.63	65873	130555.66	566377.63
65521	131219.77	566210.55	65614	130799.68	566474.05	65790	130831.61	566393.63	65874	130555.66	566377.63
65522	131224.08	566210.55	65615	130802.70	566479.08						

USACE DELINEATION POINT COORDINATE TABLE

NAD 83/90 (IN US SURVEY FEET)
(SEE DATA SOURCES 1 AND LIMITATIONS 11 & 12)

DESC	NORTHING	EASTING									
73038	139711.42	56834.64	73042	139842.03	56811.04	73046	139973.24	56788.25	73050	140104.45	56765.46
73039	139712.43	56835.65	73043	139843.04	56812.05	73047	139974.25	56789.26	73051	140105.46	56766.47
73040	139713.44	56836.66	73044	139844.05	56813.06	73048	139975.26	56790.27	73052	140106.47	56767.48
73041	139714.45	56837.67	73045	139845.06	56814.07	73049	139976.27	56791.28	73053	140107.48	56768.49
73042	139715.46	56838.68	73046	139846.07	56815.08	73050	139977.28	56792.29	73054	140108.49	56769.50
73043	139716.47	56839.69	73047	139847.08	56816.09	73051	139978.29	56793.30	73055	140109.50	56770.51
73044	139717.48	56840.70	73048	139848.09	56817.10	73052	139979.30	56794.31	73056	140110.51	56771.52
73045	139718.49	56841.71	73049	139849.10	56818.11	73053	139980.31	56795.32	73057	140111.52	56772.53
73046	139719.50	56842.72	73050	139850.11	56819.12	73054	139981.32	56796.33	73058	140112.53	56773.54
73047	139720.51	56843.73	73051	139851.12	56820.13	73055	139982.33	56797.34	73059	140113.54	56774.55
73048	139721.52	56844.74	73052	139852.13	56821.14	73056	139983.34	56798.35	73060	140114.55	56775.56
73049	139722.53	56845.75	73053	139853.14	56822.15	73057	139984.35	56799.36	73061	140115.56	56776.57
73050	139723.54	56846.76	73054	139854.15	56823.16	73058	139985.36	56800.37	73062	140116.57	56777.58
73051	139724.55	56847.77	73055	139855.16	56824.17	73059	139986.37	56801.38	73063	140117.58	56778.59
73052	139725.56	56848.78	73056	139856.17	56825.18	73060	139987.38	56802.39	73064	140118.59	56779.60
73053	139726.57	56849.79	73057	139857.18	56826.19	73061	139988.39	56803.40	73065	140119.60	56780.61
73054	139727.58	56850.80	73058	139858.19	56827.20	73062	139989.40	56804.41	73066	140120.61	56781.62
73055	139728.59	56851.81	73059	139859.20	56828.21	73063	139990.41	56805.42	73067	140121.62	56782.63
73056	139729.60	56852.82	73060	139860.21	56829.22	73064	139991.42	56806.43	73068	140122.63	56783.64
73057	139730.61	56853.83	73061	139861.22	56830.23	73065	139992.43	56807.44	73069	140123.64	56784.65
73058	139731.62	56854.84	73062	139862.23	56831.24	73066	139993.44	56808.45	73070	140124.65	56785.66
73059	139732.63	56855.85	73063	139863.24	56832.25	73067	139994.45	56809.46	73071	140125.66	56786.67
73060	139733.64	56856.86	73064	139864.25	56833.26	73068	139995.46	56810.47	73072	140126.67	56787.68
73061	139734.65	56857.87	73065	139865.26	56834.27	73069	139996.47	56811.48	73073	140127.68	56788.69
73062	139735.66	56858.88	73066	139866.27	56835.28	73070	139997.48	56812.49	73074	140128.69	56789.70
73063	139736.67	56859.89	73067	139867.28	56836.29	73071	139998.49	56813.50	73075	140129.70	56790.71
73064	139737.68	56860.90	73068	139868.29	56837.30	73072	139999.50	56814.51	73076	140130.71	56791.72
73065	139738.69	56861.91	73069	139869.30	56838.31	73073	140000.51	56815.52	73077	140131.72	56792.73
73066	139739.70	56862.92	73070	139870.31	56839.32	73074	140001.52	56816.53	73078	140132.73	56793.74
73067	139740.71	56863.93	73071	139871.32	56840.33	73075	140002.53	56817.54	73079	140133.74	56794.75
73068	139741.72	56864.94	73072	139872.33	56841.34	73076	140003.54	56818.55	73080	140134.75	56795.76
73069	139742.73	56865.95	73073	139873.34	56842.35	73077	140004.55	56819.56	73081	140135.76	56796.77
73070	139743.74	56866.96	73074	139874.35	56843.36	73078	140005.56	56820.57	73082	140136.77	56797.78
73071	139744.75	56867.97	73075	139875.36	56844.37	73079	140006.57	56821.58	73083	140137.78	56798.79
73072	139745.76	56868.98	73076	139876.37	56845.38	73080	140007.58	56822.59	73084	140138.79	56799.80
73073	139746.77	56869.99	73077	139877.38	56846.39	73081	140008.59	56823.60	73085	140139.80	56800.81
73074	139747.78	56870.00	73078	139878.39	56847.40	73082	140009.60	56824.61	73086	140140.81	56801.82
73075	139748.79	56871.01	73079	139879.40	56848.41	73083	140010.61	56825.62	73087	140141.82	56802.83
73076	139749.80	56872.02	73080	139880.41	56849.42	73084	140011.62	56826.63	73088	140142.83	56803.84
73077	139750.81	56873.03	73081	139881.42	56850.43	73085	140012.63	56827.64	73089	140143.84	56804.85
73078	139751.82	56874.04	73082	139882.43	56851.44	73086	140013.64	56828.65	73090	140144.85	56805.86
73079	139752.83	56875.05	73083	139883.44	56852.45	73087	140014.65	56829.66	73091	140145.86	56806.87
73080	139753.84	56876.06	73084	139884.45	56853.46	73088	140015.66	56830.67	73092	140146.87	56807.88
73081	139754.85	56877.07	73085	139885.46	56854.47	73089	140016.67	56831.68	73093	140147.88	56808.89
73082	139755.86	56878.08	73086	139886.47	56855.48	73090	140017.68	56832.69	73094	140148.89	56809.90
73083	139756.87	56879.09	73087	139887.48	56856.49	73091	140018.69	56833.70	73095	140149.90	56810.91
73084	139757.88	56880.10	73088	139888.49	56857.50	73092	140019.70	56834.71	73096	140150.91	56811.92
73085	139758.89	56881.11	73089	139889.50	56858.51	73093	140020.71	56835.72	73097	140151.92	56812.93
73086	139759.90	56882.12	73090	139890.51	56859.52	73094	140021.72	56836.73	73098	140152.93	56813.94
73087	139760.91	56883.13	73091	139891.52	56860.53	73095	140022.73	56837.74	73099	140153.94	56814.95
73088	139761.92	56884.14	73092	139892.53	56861.54	73096	140023.74	56838.75	73100	140154.95	56815.96
73089	139762.93	56885.15	73093	139893.54	56862.55	73097	140024.75	56839.76	73101	140155.96	56816.97
73090	139763.94	56886.16	73094	139894.55	56863.56	73098	140025.76	56840.77	73102	140156.97	56817.98
73091	139764.95	56887.17	73095	139895.56	56864.57	73099	140026.77	56841.78	73103	140157.98	56818.99
73092	139765.96	56888.18	73096	139896.57	56865.58	73100	140027.78	56842.79	73104	140158.99	56819.00
73093	139766.97	56889.19	73097	139897.58	56866.59	73101	140028.79	56843.80	73105	140159.00	56820.01
73094	139767.98	56890.20	73098	139898.59	56867.60	73102	140029.80	56844.81	73106	140160.01	56821.02
73095	139768.99	56891.21	73099	139899.60	56868.61	73103	140030.81	56845.82	73107	140161.02	56822.03
73096	139769.00	56892.22	73100	139900.61	56869.62	73104	140031.82	56846.83	73108	140162.03	56823.04
73097	139770.01	56893.23	73101	139901.62	56870.63	73105	140032.83	56847.84	73109	140163.04	56824.05
73098	139771.02	56894.24	73102	139902.63	56871.64	73106	140033.84	56848.85	73110	140164.05	56825.06
73099	139772.03	56895.25	73103	139903.64	56872.65	73107	140034.85	56849.86	73111	140165.06	56826.07
73100	139773.04	56896.26	73104	139904.65	56873.66	73108	140035.86	56850.87	73112	140166.07	56827.08
73101	139774.05	56897.27	73105	139905.66	56874.67	73109	140036.87	56851.88	73113	140167.08	56828.09
73102	139775.06	56898.28	73106	139906.67	56875.68	73110	140037.88	56852.89	73114	140168.09	56829.10
73103	139776.07	56899.29	73107	139907.68	56876.69	73111	140038.89	56853.90	73115	140169.10	56830.11
73104	139777.08	56900.30	73108	139908.69	56877.70	73112	140039.90	56854.91	73116	140170.11	56831.12
73105	139778.09	56901.31	73109	139909.70	56878.71	73113	140040.91	56855.92	73117	140171.12	56832.13
73106	139779.10	56902.32	73110	139910.71	56879.72	73114	140041.92	56856.93	73118	140172.13	56833.14
73107	139780.11	56903.33	73111	139911.72	56880.73	73115	140042.93	56857.94	73119	140173.14	56834.15
73108	139781.12	56904.34	73112	139912.73	56881.74	73116	140043.94	56858.95	73120	140174.15	56835.16
73109	139782.13	56905.35	73113	139913.74	56882.75	73117	140044.95	56859.96	73121	140175.16	56836.17
73110	139783.14	56906.36	73114	139914.75	56883.76	73118	140045.96	56860.97	73122	140176.17	56837.18
73111	139784.15	56907.37	73115	139915.76	56884.77	73119	140046.97	56861.98	73123	140177.18	56838.19
73112	139785.16	56908.38	73116	139916.77	56885.78	73120	140047.98	56862.99	73124	140178.19	56839.20
73113	139786.17	56909.39	73117	139917.78	56886.79	73121	140048.99	56864.00	73125	140179.20	56840.21
73114	139787.18	56910.40	73118	139918.79	56887.80	73122	140049.00	56865.01	73126	140180.21	56841.22
73115	139788.19	56911.41	73119	139919.80	56888.81	73123	140050.01	56866.02	73127	140181.22	56842.23
73116	139789.20	56912.42	73120	139920.81	56889.82	73124	140051.02	56867.0			

USACE DELINEATION POINT COORDINATE TABLE

NAD 83/90 (IN US SURVEY FEET)

(SEE DATA SOURCES 1 AND LIMITATIONS 11 & 12)

DESC	NORTHING	EASTING												
7669	1397196.02	564752.41	7670	1397323.56	564431.97	7691	1397258.84	564489.74	7712	1395334.84	566923.00	7733	1399146.91	564418.11
7670	1397224.07	564753.82	7671	1397350.40	564431.63	7692	1397309.40	564487.48	7713	1395353.14	566923.00	7734	1399166.29	564418.11
7671	1397250.88	564754.10	7672	1397377.23	564431.63	7693	1397356.77	564487.48	7714	1395371.44	566923.00	7735	1399185.58	564418.11
7672	1397277.69	564754.38	7673	1397403.58	564431.63	7694	1397401.14	564487.48	7715	1395389.74	566923.00	7736	1399204.87	564418.11
7673	1397304.50	564754.66	7674	1397430.47	564431.63	7695	1397448.51	564487.48	7716	1395408.00	566923.00	7737	1399224.16	564418.11
7674	1397331.31	564754.94	7675	1397457.28	564431.63	7696	1397495.86	564487.48	7717	1395426.26	566923.00	7738	1399243.45	564418.11
7675	1397358.12	564755.22	7676	1397484.15	564431.63	7697	1397543.21	564487.48	7718	1395444.52	566923.00	7739	1399262.74	564418.11
7676	1397384.93	564755.50	7677	1397510.08	564431.63	7698	1397589.56	564487.48	7719	1395462.78	566923.00	7740	1399282.03	564418.11
7677	1397411.74	564755.78	7678	1397536.01	564431.63	7699	1397635.91	564487.48	7720	1395481.04	566923.00	7741	1399301.32	564418.11
7678	1397438.55	564756.06	7679	1397562.24	564431.63	7700	1397682.26	564487.48	7721	1395499.30	566923.00	7742	1399320.61	564418.11
7679	1397465.36	564756.34	7680	1397587.47	564431.63	7701	1397728.61	564487.48	7722	1395517.56	566923.00	7743	1399340.00	564418.11
7680	1397492.17	564756.62	7681	1397613.70	564431.63	7702	1397775.05	564487.48	7723	1395535.82	566923.00	7744	1399359.39	564418.11
7681	1397518.98	564756.90	7682	1397639.93	564431.63	7703	1397821.49	564487.48	7724	1395554.08	566923.00	7745	1399378.78	564418.11
7682	1397545.79	564757.18	7683	1397666.16	564431.63	7704	1397867.93	564487.48	7725	1395572.34	566923.00	7746	1399398.17	564418.11
7683	1397572.60	564757.46	7684	1397691.39	564431.63	7705	1397914.37	564487.48	7726	1395590.60	566923.00	7747	1399417.56	564418.11
7684	1397599.41	564757.74	7685	1397717.62	564431.63	7706	1397960.81	564487.48	7727	1395608.86	566923.00	7748	1399436.95	564418.11
7685	1397626.22	564758.02	7686	1397743.85	564431.63	7707	1398007.25	564487.48	7728	1395627.12	566923.00	7749	1399456.34	564418.11
7686	1397653.03	564758.30	7687	1397770.08	564431.63	7708	1398053.69	564487.48	7729	1395645.38	566923.00	7750	1399475.73	564418.11
7687	1397680.14	564758.58	7688	1397796.31	564431.63	7709	1398100.13	564487.48	7730	1395663.64	566923.00	7751	1399495.12	564418.11
7688	1397707.35	564758.86	7689	1397822.54	564431.63	7710	1398146.57	564487.48	7731	1395681.90	566923.00	7752	1399514.51	564418.11
7689	1397734.56	564759.14	7690	1397848.77	564431.63	7711	1398193.01	564487.48	7732	1395700.16	566923.00	7753	1399533.90	564418.11
7690	1397761.77	564759.42	7691	1397875.00	564431.63	7712	1398239.45	564487.48	7733	1395718.42	566923.00	7754	1399553.29	564418.11
7691	1397788.98	564759.70	7692	1397901.23	564431.63	7713	1398285.89	564487.48	7734	1395736.68	566923.00	7755	1399572.68	564418.11
7692	1397816.19	564760.00	7693	1397927.46	564431.63	7714	1398332.33	564487.48	7735	1395754.94	566923.00	7756	1399592.07	564418.11
7693	1397843.40	564760.28	7694	1397953.69	564431.63	7715	1398378.77	564487.48	7736	1395773.20	566923.00	7757	1399611.46	564418.11
7694	1397870.61	564760.56	7695	1397979.92	564431.63	7716	1398425.21	564487.48	7737	1395791.46	566923.00	7758	1399630.85	564418.11
7695	1397897.82	564760.84	7696	1398006.15	564431.63	7717	1398471.65	564487.48	7738	1395809.72	566923.00	7759	1399650.24	564418.11
7696	1397925.03	564761.12	7697	1398032.38	564431.63	7718	1398518.09	564487.48	7739	1395827.98	566923.00	7760	1399669.63	564418.11
7697	1397952.24	564761.40	7698	1398058.61	564431.63	7719	1398564.53	564487.48	7740	1395846.24	566923.00	7761	1399689.02	564418.11
7698	1397979.45	564761.68	7699	1398084.84	564431.63	7720	1398610.97	564487.48	7741	1395864.50	566923.00	7762	1399708.41	564418.11
7699	1398006.66	564761.96	7700	1398111.07	564431.63	7721	1398657.41	564487.48	7742	1395882.76	566923.00	7763	1399727.80	564418.11
7700	1398033.87	564762.24	7701	1398137.30	564431.63	7722	1398703.85	564487.48	7743	1395901.02	566923.00	7764	1399747.19	564418.11
7701	1398061.08	564762.52	7702	1398163.53	564431.63	7723	1398750.29	564487.48	7744	1395919.28	566923.00	7765	1399766.58	564418.11
7702	1398088.29	564762.80	7703	1398189.76	564431.63	7724	1398796.73	564487.48	7745	1395937.54	566923.00	7766	1399786.00	564418.11
7703	1398115.50	564763.08	7704	1398216.00	564431.63	7725	1398843.17	564487.48	7746	1395955.80	566923.00	7767	1399805.41	564418.11
7704	1398142.71	564763.36	7705	1398242.23	564431.63	7726	1398889.61	564487.48	7747	1395974.06	566923.00	7768	1399824.82	564418.11
7705	1398169.92	564763.64	7706	1398268.46	564431.63	7727	1398936.05	564487.48	7748	1395992.32	566923.00	7769	1399844.23	564418.11
7706	1398197.13	564763.92	7707	1398294.69	564431.63	7728	1398982.49	564487.48	7749	1396010.58	566923.00	7770	1399863.64	564418.11
7707	1398224.34	564764.20	7708	1398320.92	564431.63	7729	1399028.93	564487.48	7750	1396028.84	566923.00	7771	1399883.05	564418.11
7708	1398251.55	564764.48	7709	1398347.15	564431.63	7730	1399075.37	564487.48	7751	1396047.10	566923.00	7772	1399902.46	564418.11
7709	1398278.76	564764.76	7710	1398373.38	564431.63	7731	1399121.81	564487.48	7752	1396065.36	566923.00	7773	1399921.87	564418.11
7710	1398305.97	564765.04	7711	1398400.61	564431.63	7732	1399168.25	564487.48	7753	1396083.62	566923.00	7774	1399941.28	564418.11
7711	1398333.18	564765.32	7712	1398426.84	564431.63	7733	1399214.69	564487.48	7754	1396101.88	566923.00	7775	1399960.69	564418.11
7712	1398360.39	564765.60	7713	1398453.07	564431.63	7734	1399261.13	564487.48	7755	1396120.14	566923.00	7776	1399980.10	564418.11
7713	1398387.60	564765.88	7714	1398479.30	564431.63	7735	1399307.57	564487.48	7756	1396138.40	566923.00	7777	1400000.00	564418.11
7714	1398414.81	564766.16	7715	1398505.53	564431.63	7736	1399354.01	564487.48	7757	1396156.66	566923.00	7778	1400020.00	564418.11
7715	1398442.02	564766.44	7716	1398531.76	564431.63	7737	1399400.45	564487.48	7758	1396174.92	566923.00	7779	1400040.00	564418.11
7716	1398469.23	564766.72	7717	1398558.00	564431.63	7738	1399446.89	564487.48	7759	1396193.18	566923.00	7780	1400060.00	564418.11
7717	1398496.44	564767.00	7718	1398584.23	564431.63	7739	1399493.33	564487.48	7760	1396211.44	566923.00	7781	1400080.00	564418.11
7718	1398523.65	564767.28	7719	1398610.46	564431.63	7740	1399539.77	564487.48	7761	1396229.70	566923.00	7782	1400100.00	564418.11
7719	1398550.86	564767.56	7720	1398636.69	564431.63	7741	1399586.21	564487.48	7762	1396247.96	566923.00	7783	1400120.00	564418.11
7720	1398578.07	564767.84	7721	1398662.92	564431.63	7742	1399632.65	564487.48	7763	1396266.22	566923.00	7784	1400140.00	564418.11
7721	1398605.28	564768.12	7722	1398689.15	564431.63	7743	1399679.09	564487.48	7764	1396284.48	566923.00	7785	1400160.00	564418.11
7722	1398632.49	564768.40	7723	1398715.38	564431.63	7744	1399725.53	564487.48	7765	1396302.74	566923.00	7786	1400180.00	564418.11
7723	1398659.70	564768.68	7724	1398741.61	564431.63	7745	1399771.97	564487.48	7766	1396321.00	566923.00	7787	1400200.00	564418.11
7724	1398686.91	564768.96	7725	1398767.84	564431.63	7746	1399818.41	564487.48	7767	1396339.26	566923.00	7788	1400220.00	564418.11
7725	1398714.12	564769.24	7726	1398794.07	564431.63	7747	1399864.85	564487.48	7768	1396357.52	566923.00	7789	1400240.00	564418.11
7726	1398741.33	564769.52	7727	1398820.30	564431.63	7748	1399911.29	564487.48	7769	1396375.78	566923.00	7790	1400260.00	564418.11
7727	1398768.54	564769.80	7728	1398846.53	564431.63	7749	1399957.73	564487.48	7770	1396394.04	566923.00	7791	1400280.00	564418.11
7728	1398795.75	564770.08	7729	1398872.76	564431.63	7750	1400004.17	564487.48	7771	1396412.30	566923.00	7792	1400300.00	564418.11
7729	1398822.96	564770.36	7730	1398899.00	564431.63	7751	1400050.61	564487.48	7772	1396430.56	566923.00	7793	1400320.00	564418.11
7730	1398850.17	564770.64	7731	1398925.23	564431.63	7752	1400097.05	564487.48	7773	1396448.82	566923.0			