

January 31, 2014

1301332

Ms. Ann Seiler
Florida Department of Environmental Protection
Siting Coordination Office, MS 48
3900 Commonwealth Blvd.
Tallahassee, FL 32399-3900

SUBJECT: AMENDMENT TO CURTIS H. STANTON ENERGY CENTER CONDITIONS OF CERTIFICATION (PA 81-14K): OUC STANTON TO PERSHING TRANSMISSION STRUCTURE UPGRADE, ORANGE COUNTY, FLORIDA

Dear Ms. Seiler:

On behalf of Orlando Utilities Commission (OUC), Golder Associates Inc. is pleased to submit this request for amendment of the Stanton Energy Center (Stanton) Conditions of Certification (PA 81-14K) for the replacement of existing transmission structures (41 wooden H-frame, 13 steel H-frame, and 4 lattice towers) with steel monopole structures, installation of 4 new steel monopole structures, and reconductoring within the certified Pershing-Stanton transmission line right-of-way (ROW). The request should not require any modification to the Conditions of Certification.

The approximately 9.2-mile Project extends north from the Stanton North Substation (Substation No. 35) then travels west to the Pershing Substation (see attached figure). The Project is necessary to support additional transmission capacity and increased transmission system reliability, as detailed in the Project Scope below:

- Reconductoring both the existing Pershing to Stanton North 115-kV Circuit "A" (No. 5-0635A) and the section of the existing Pershing to Indian River 115-kV Circuit "B" (No. 5-0607B) that extends west from Structure 69A towards Pershing Substation (Substation No. 6), to increase the current carrying capacity of both circuits to 2000A continuous (normal rating). The increase in circuit current carrying capacity will be accomplished by replacing the existing 636 kcmil, ACSR phase conductors with larger diameter 1272 kcmil, ACSS/TW, Pheasant conductors.
- Looping the Pershing to Indian River 115-kV Circuit "B" through the Stanton North Substation (Substation No. 35) to create two new circuits – the Pershing to Stanton North 115-kV Circuit "B" and the Stanton North to Indian River 115-kV Circuit "A". this modification will create two new lines – a double circuit Pershing to Stanton North "A" and "B" 115-kV line and a double circuit Stanton North to Indian River "A" and "B" 115-kV line. It will require addition of new phase conductor sections between Structures 69A and 69B and the existing terminal structures at the Stanton North Substation.
- New tubular steel monopole structures will be added adjacent to existing structures 400A, 4000A, 100A, and 1000A. These are needed to support the new circuits mentioned above and will be located in the corridor north of the Stanton North Substation
- A major portion of the line currently uses double circuit wooden H-frame tangent structures that are past their life expectancy. In addition they were designed to support the existing 636 kcmil, ACSR phase conductors. Their design does not support the larger phase conductors to be used for the line upgrade. These wooden H-frame structures will be replaced with double-circuit tubular steel monopole structures.

- The transmission line work will require protection and control modifications at the Pershing, Stanton North, and Indian River Plant substations. No expansion of the footprint of any substation will be required.

A Notice of Intent to Use an Environmental Resource General Permit and Environmental Resource Permit (ERP) application for the Project are attached for your review. This application includes a description of the proposed Project, baseline environmental information, wetland survey, and construction drawings associated with the replacement of structures line within the cleared transmission corridor ROW approved during certification of Stanton Energy Center. The Project will be constructed utilizing temporary construction matting to avoid and minimize wetland impacts. The Project has been designed to comply with the criteria of 62-330.458 General Permit for the Construction and Maintenance of Electric Power Lines by Electric Utilities and USACE Regional General Permit SAJ-13, Aerial Transmission Lines in Florida.

Wetland impacts will be avoided and minimized through use of temporary construction matting to provide access within wetland areas during transmission structure installation. No new access roads or structure pads are being proposed as part of the Project. No permanent wetland impacts are associated with the Project. A total of 2.73 acres of temporary construction matting within wetlands are proposed.

A copy of the ERP application is being sent concurrently to the US Army Corps of Engineers office in Cocoa, Florida. Should you have any questions or comments concerning this request for COC amendment or associated ERP application, please feel free to contact me at 352-336-5600 or via email at kbullock@golder.com.

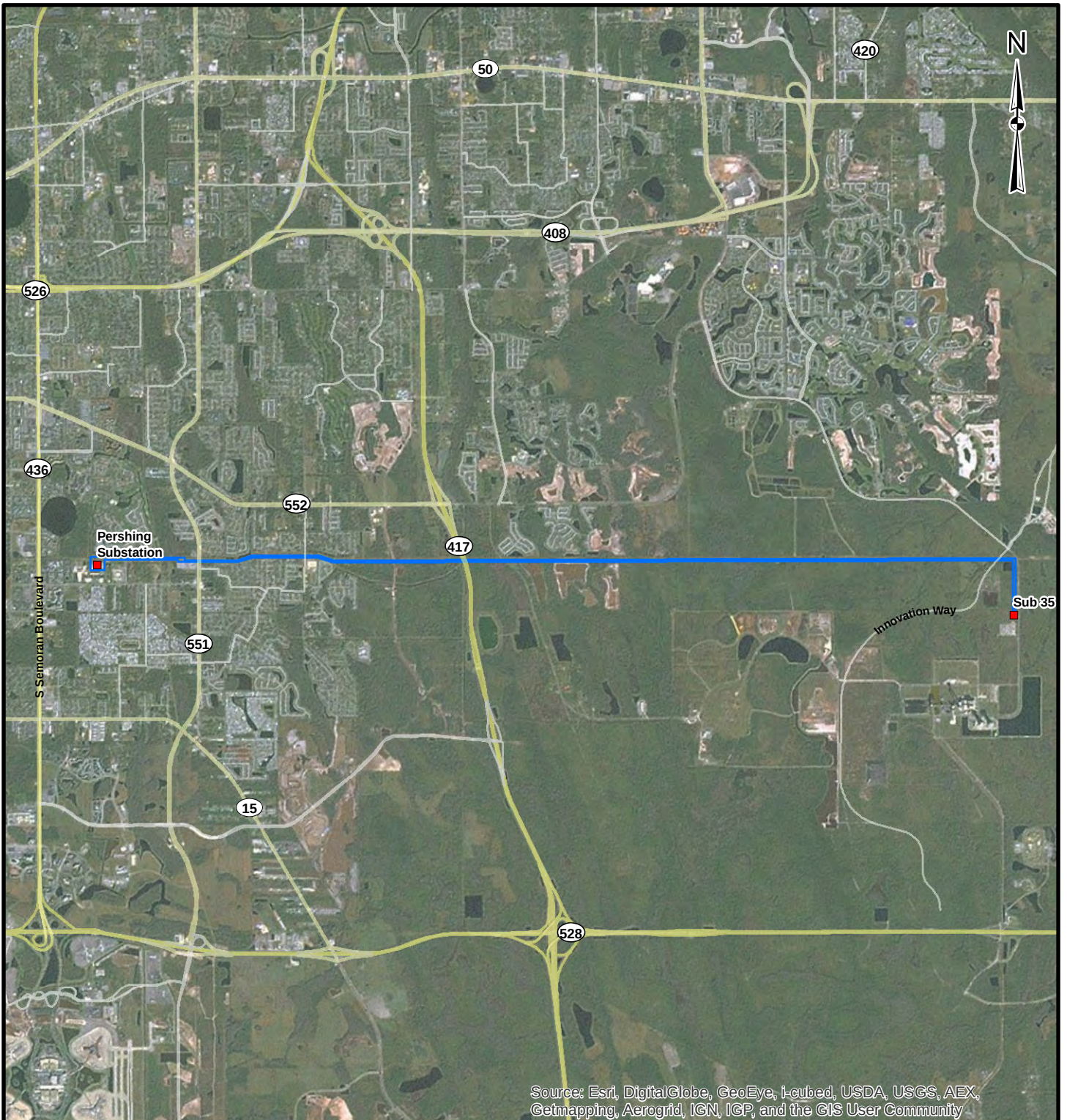
Sincerely,



Karl Bullock
Project Manager

cc: D. Baez, OUC
F. Alonso, Leidos
R. Toporek, OUC

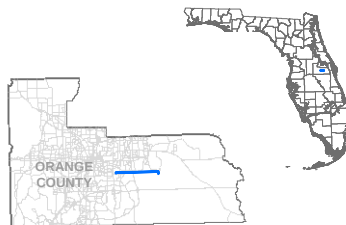
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Substations
- ▬ Project Area



REFERENCES

1. Project Location (Approximate), OUC, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

7,000 0 7,000
Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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PROJECT

OUC PERSHING TO STANTON 115KV
UPGRADE PROJECT

TITLE

LOCATION MAP

PROJECT No. 130-1332			FILE No. 1301332_B009	
DESIGN	KAB	23 Aug. 2013	SCALE: AS SHOWN	REV: 0
GIS	NRL	22 Jan. 2014	FIGURE: 1	
CHECK	KAB	22 Jan. 2014		
REVIEW	KAB	22 Jan. 2014		



NOTICE OF INTENT TO USE AN ENVIRONMENTAL RESOURCE GENERAL PERMIT

Instructions: This form is for projects that qualify for a General Permit in accordance with Chapter 62-330 F.A.C. General Permits (GP) are provided for certain activities that have been determined to have minimal impacts to the water resources of the state when conducted in compliance with the terms and conditions of the general permit. Complete and submit this form to appropriate agency as identified in Part 3 below.

If activity is located on, or has the potential to be located on state-owned sovereignty submerged lands (SSL), the reviewing Agency will begin processing the request for state-owned sovereign submerged lands approval. If you know that your project is located on SSL, complete Section F of the Environmental Resource Permit Application.

PART 1: GENERAL INFORMATION

A. Rule section number of the GP or which you are applying: 62-330.458, F.A.C.	
B. APPLICANT ☒ THIS A CONTACT PERSON FOR ADDITIONAL INFORMATION	
Name: Last: Toporek	First: Ron Middle:
Title: Director of Transmission	Company: Orlando Utilities Commission
Address: 6003 Pershing Ave	
City: Orlando	State: Florida Zip: 32822
Home Telephone:	Work Telephone: 407-434-4126
Cell Phone:	Fax: 407-434-4356
E-mail Address: rtoporek@ouc.com	
Preferred correspondence method: ☒ x email ☐ US Mail	
C. CONSULTANT/AGENT ☒ THIS A CONTACT PERSON FOR ADDITIONAL INFORMATION	
Name: Last: Bullock	First: Karl Middle:
Title: Senior Scientist	Company: Golder Associates
Address: 6026 NW 1st Place	
City: Gainesville	State: Florida Zip: 32607
Home Telephone:	Work Telephone: 352-336-5600
Cell Phone: 352-222-6961	Fax: 352-336-6603
E-mail Address: kbullock@golder.com	
Preferred correspondence method: ☒ x email ☐ US Mail	



D. Location of proposed activities:		Tax Parcel Identification Number:	See table below
Address: Pershing Substation to Stanton Energy Center North Substation, approximately 9 miles of existing transmission ROW			
City: Orlando		County: Orange	Zip: 32822
Latitude (DMS) 28° 30' 8.64"		Longitude (DMS) 81° 13' 50.30"	
E. Date activity is proposed:	To Commence: 6/1/14	To be Completed: 6/30/15	

Tax Parcel ID #s

302310000000013	302312000000064	312307000000004
302310303201030	312312000000008	302310303200961
302312129510000	302310303200521	302310303200980
302310303200510	302311000000019	302310303200950
302310736100001	322307000000001	302310303201000
312308205100005	302311890300001	312312000000005
312307000000005	302310683900010	312308205100003
312309000000004	312308374701000	302312129900002
312312000000007	312322000000001	302312000000048
302310889600008	302312129712000	302312000000009
312308000000010	302312129712000	

F. Describe in general terms the proposed project, system, or activity:

Replacement of existing transmission structures (41 wooden H-frame, 13 steel H-frame, and 4 lattice towers) with steel monopole structures and installation of 4 new steel monopole structures within an existing certified transmission line ROW (PA81-14) to support larger diameter conductors required for additional transmission capacity and increased transmission system reliability. No new access roads or pads are proposed. Construction access within wetland areas will be achieved through use of temporary construction matting to avoid permanent wetland impact. Construction drawings illustrating the location of each existing and proposed structures as well as maximum extent of temporary construction matting are provided in the attached ERP application.

G. Describe wetland and aquatic habitats to be affected:

Wet prairie, ditch, and freshwater marsh wetland habitats will be temporarily affected through placement of construction matting for access. A total of approximately 2.73 acres of temporary wetland impacts are proposed. No permanent dredge/fill impacts are proposed. These wetlands are located within the existing transmission line right-of-way and are relatively low-quality due to historical clearing and routine maintenance. Typical vegetation consists of a variety of native and exotic herbaceous and shrubby species such as maidencane (*Panicum hemitomon*), torpedo grass (*Panicum repens*), soft rush (*Juncus effusus*), brushy bluestem (*Andropogon glomeratus*), primrose willow (*Ludwigia* spp.), wax myrtle (*Myrica cerifera*), Chinese tallow (*Sapium sebiferum*), marsh pennywort (*Hydrocotyle umbellata*), and flattop goldenrod (*Euthamia caroliniana*). The signed and sealed wetland survey, USACE wetland datasheets, and UMAM

assessment forms are included in the attached ERP application.

H. Construction methods and schedule:

In order to ensure state water quality standards for turbidity are met, erosion and sediment controls (i.e. silt fence or staked turbidity barrier) will be properly installed around work areas that border wetlands prior to commencement of construction activities. These measures will aid in preventing, to the greatest extent possible, any potential sediment release or turbidity outside the work area caused by ground disturbances. After the erosion and sediment controls are in place, temporary matting will be deployed in the wetland areas, as necessary, to access the areas where the existing transmission structure will be removed and where the new structure will be installed. The installation of the new structure will involve using a mechanical auger to drill a hole for the foundation, upon which the structure will be attached utilizing a crane. The new structure will be located within approximately 10-25 feet of the existing structure, as illustrated on the construction drawings. Spoil excavated for the foundation will be transported from the Project site for disposal. Once the new structure is installed, the old structure will be cut at ground level and removed by a crane. Once the construction activities are completed, the temporary matting and erosion control barriers will be removed, and areas of temporarily-impacted vegetation will be allowed to naturally regenerate.

I. Additional information that demonstrates that you qualify for the general permit, addressing all the parameters, thresholds, and conditions required in the general permit.

The proposed work activities meet the requirements listed in rule section 62-330.458 F.A.C. for the General Permit conditions for the Construction and Maintenance of Electric Power Lines by Electric Utilities. No permanent wetland fill is necessary to conduct the work activities. The work is proposed within an existing cleared right-of-way; therefore no canopy clearing will be necessary. No new access roads or transmission structure pads are proposed. Additionally, no surface waters are proposed to be diverted or impounded as a result of the proposed work activities.

PART 2: CERTIFICATION

I hereby certify I have read and will conduct the above activities in accordance with the criteria, limitations, and specific conditions of the general permit identified in Part 1 Section A, and in accordance with the general conditions of Rule 62-330.405, F.A.C. Unless otherwise provided in Chapter 62-330, F.A.C., activities conducted pursuant to the above general permit may commence thirty (30) days after providing written notice to the Department of Environmental Protection or the Water Management District, along with any required additional documentation which may be required to fulfill the requirements of the general permit, unless the Agency responds that the proposed work does not qualify for a general permit.

I understand I may have to provide any additional information/data that may be necessary to provide reasonable assurance or evidence that the proposed project will comply with the applicable state water quality standards or other environmental standards both before construction and after the process is completed.

I further acknowledge that work done under this general permit may also require the review and approval of other federal, state, or local agencies, and that commencement of construction before such federal,

state, or local agency approvals or permits are obtained may subject me to enforcement action and fines or penalties by such agencies. Further, the work shall be conducted in a manner that does not violate applicable water quality standards.

In addition, I agree, upon being provided with reasonable notice, to provide entry to the project site for Agency staff with proper identification for the purpose of inspecting the site. Further, I agree to provide entry to the project site for such staff to monitor permitted work.

Ron Toporek

Typed/Printed Name of Applicant or Agent

Signature of Applicant or Agent

Date

An Agent May Sign Above If Applicant Completes the Following:

I hereby designate and authorize the agent listed in Item Part 1 Section C to act on my behalf as my agent in the processing of this permit application and to furnish on request, supplemental information in support of the application.

Typed/Printed Name of Applicant (and Corporate Title, if applicable)

Signature of Applicant

Date

PART 3: SUBMITTAL

In addition to the information described in this form, any Notice of Intent to use a General Permit must also include the following, as described in Section 4.2.2 of the Applicant's Handbook, Volume I:

- Location map(s) of sufficient detail to allow someone who is unfamiliar with the site to travel to and locate the specific site of the activity.
- One set of plans and drawings, calculations, environmental information, and other supporting documents that clearly and legibly depict and describe the proposed activities in sufficient detail to demonstrate that the work qualifies for the specified General Permit.
- The required fee, made payable to the appropriate agency.

Fees for the appropriate agency are established in the rules adopted in subsection 62-330.071(1), F.A.C., as listed below:

Rule 62-4.050, F.A.C. (Department of Environmental Protection or the Northwest Florida Water Management District)

Rule 40B-1.706, F.A.C. (Suwannee River Water Management District)

Rule 40C-1.603, F.A.C. (St. Johns River Water Management District)

Rule 40D-1.607, F.A.C. (Southwest Florida Water Management District)

Rule 40E-1.607, F.A.C. (South Florida Water Management District)

Operating Agreements between the Department and the water management districts specify which agency will process any given application. For copies of the operating agreements, go to <http://www.dep.state.fl.us/water/wetlands/erp/wmd.htm>.

Several agencies now allow this application form to be submitted electronically on the Internet; in those cases, follow the on-line submittal requirements of that agency:

- o **Northwest Florida Water Management District:**
http://www.nwfwmd.state.fl.us/permits/erp/epermit_home.html

- o **St. Johns River Water Management District:**
<https://permitting.sjrwmd.com/epermitting/jsp/AccountOverview.do?command=init>
- o **Southwest Florida Water Management District:**
<http://www.swfwmd.state.fl.us/permits/epermitting/>
- o **South Florida Water Management District:**
<http://my.sfwmd.gov/ePermitting/MainPage.do>

If submitting a paper application, please see Appendix A of Applicant's Handbook, Volume I for submittal locations.

JOINT APPLICATION FOR INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT/ AUTHORIZATION TO USE STATE-OWNED SUBMERGED LANDS/ FEDERAL DREDGE AND FILL PERMIT

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION/
WATER MANAGEMENT DISTRICTS/
U.S. ARMY CORPS OF ENGINEERS

Effective October 1, 2013



INSTRUCTIONS FOR USE OF THIS FORM:

This form is designed to assist you in submitting a complete application. All applications must include Section A- General Information for All Activities. Sections B through H list typical information that is needed based on the proposed activities, and are only required as applicable. Part 1-C of Section A will guide you to the correct sections needed based on your proposed activities. Applicants are advised to consult Chapter 62-330, F.A.C., and the Environmental Resource Permit Applicant's Handbook Volumes I and II for information regarding the ERP permitting process and requirements while preparing their application. Internet addresses for Chapter 62-330, F.A.C. and the Applicant's Handbook, Agency contact information, and additional instructions for this form can be found in Attachment 1.

What Sections of the Application Must I Fill Out?

Does the project involve....	Section							
	A- General Information	B- Single Family Projects	C- Wetlands and other Surface Waters	D- Structures or Works in Surface Waters	E- Stormwater Management System	F- State-owned Submerged Lands	G- Mitigation Banks	H- Mines
Fill in wetlands or waters for a single family residence?	X	X						
Docks, shoreline stabilization, seawalls associated with a single family residence?	X	X				X, if applicable		
Wetland impacts (other than associated with an individual residence)?	X		X					
Boating facilities, a marina, jetty, reef, or dredging?	X		X	X		X if applicable		
Any work on state owned submerged land?	X		X			X		
Construction of a stormwater management system?	X		X, if applicable		X			
Constructing a mitigation bank?	X		X		X, if applicable		X	
Creating a mine?	X		X, if applicable					X

Note- if you are required to provide Section B, then you do not have to provide any other Sections, unless the activities are on state-owned submerged lands. In that case, Section F will also be required.

If you have any questions, or would like assistance completing this form, please contact the staff of the nearest office of either the Florida Department of Environmental Protection (DEP) or a Water Management District (WMD) (see Attachment 2).

Section A: General Information for All Activities

PART 1: NAME, APPLICATION TYPE, LOCATION, AND DESCRIPTION OF ACTIVITY

A. Name of project, including phase if applicable: **ouc Pershing – Stanton 115-kV Transmission Upgrade**

B. This is for (check all that apply):

- ☐ Construction or operation of **new** works, activities and/ or a stormwater management system
- ☐ **Conceptual Approval** of proposed works, activities and/ or a stormwater management system
- ☒ Modification or Alteration of **existing** works activities and / or a stormwater management system.
Provide the existing DEP or WMD permit #, if known: **Stanton Energy Center (PA 81-14K)**
Note: Minor modifications do not require completion of this form, and may instead be requested by letter.
- ☐ **Maintenance or repair** of works, activities and/ or stormwater management system previously permitted by the DEP or WMD Provide existing permit #, if known: _____
- ☐ Abandonment or removal of works, activities and/ or stormwater management system
Provide existing DEP or WMD permit #, if known: _____
- ☐ Operation of an **existing unpermitted** stormwater management system.
- ☐ Construction of additional phases of a permitted work, activity and/ or stormwater management system.
Provide the existing DEP or WMD permit #, if known: _____

C. **List the type of activities proposed. Check all that apply, and provide the supplemental information requested in each of the referenced application sections. Please also reference Applicant's Handbooks I and II for the type of information that may be needed.**

- ☐ Activities associated with one single-family residence, duplex, triplex, or quadruplex that do not qualify for an exemption or a General Permit: **Provide the information requested in Section B. Do not complete Section C.**
- ☒ Activities within wetlands or surface waters, or within 25 feet of a wetland or surface water, (not including the activities associated with an individual residence). *Examples include dredging, filling, outfall structures, docks, piers, over-water structures, shoreline stabilization, mitigation, reclamation, restoration/enhancement. Provide the information requested in Section C.*
- ☐ Activities within navigable or flowing surface waters such as a multi-slip dock or marina, dry storage facility, dredging, bridge, breakwaters, reefs, or other offshore structures: **In addition to Section C, also provide the information requested in Section D.**
- ☐ Activities that are (or may be) located within, on or over state-owned submerged lands (See Chapter 18-21, F.A.C. <https://www.flrules.org/gateway/ChapterHome.asp?Chapter=18-21>): **In addition to Section B or C, also provide the information requested in Section F**

- ☐ Construction or alteration of a stormwater management system serving residential, commercial, transportation, industrial, agricultural, or other land uses, or a solid waste facility (excluding mines that are regulated by DEP). **Provide the information requested in Section E.**
- ☐ Creation or modification of Mitigation Bank (refer to Chapter 62-342, F.A.C. <https://www.flrules.org/gateway/ChapterHome.asp?Chapter=62-342>): **Provide the information requested in Section G.**
- ☐ Mines (as defined in Section 2.0 of Applicant's Handbook Volume I) that are regulated by the DEP: **Provide the information requested in Section H.**
- ☐ Other, describe: Please contact the Agency to determine which additional sections of the application are needed. See Attachment 1 for Agency contacts.

D. Describe in general terms the proposed project, system, works, or other activities. For permit modifications, please briefly describe the changes requested to the permit:

Replacement of existing transmission structures (41 wooden H-frame, 13 steel H-frame, and 4 lattice towers) with steel monopole structures and installation of 4 new steel monopole structures within an existing certified transmission line ROW (PA81-14) to support larger diameter conductors required for additional transmission capacity and increased transmission system reliability. No new access roads or pads are proposed. Construction access within wetland areas will be achieved through use of temporary construction matting to avoid permanent wetland impact. A total of approximately 2.73 acres of temporary wetland impacts are proposed.

E. For activities in, on, or over wetlands or other surface waters, check the type of federal dredge and fill permit requested (if known): ☐ Individual ☒ Programmatic General permit #: SAJ 13
☐ General ☐ Nationwide permit #: NWP ☐ Not Applicable ☐ Not sure

F. Project/Activity Street/Road Address or other location (if applicable): **Pershing Substation to Stanton Energy Center North Substation, approximately 9 miles of existing transmission ROW**
City: **Orlando** County(ies): **Orange** Zip: **32822**

Note: For utility, road, or ditch/canal activities, provide a starting and ending point using street names and nearest house numbers or provide length of project in miles along named streets or highways.

G. Project location map and Section, Township, and Range information (use additional sheets if needed):
Please attach a location map showing the location and boundaries of the proposed activity in relation to major intersections or other landmarks. The map should also contain a north arrow and a graphic scale; show Section(s), Township(s), and Range(s); and must be of sufficient detail to allow a person unfamiliar with the site to find it.

Section(s):	Township:	Range:	Land Grant name, if applicable:
Section(s):	Township:	Range:	
Section(s):	Township:	Range:	

See Attachment A – Site Location Information, Figure 1 – Project Location Map

H. Latitude (DMS) **28° 30' 8.64"** Longitude (DMS) **81° 13' 50.30"** (Taken from central location of the activity). Explain source for obtaining latitude and longitude (i.e. U.S.G.S. Quadrangle Map, GPS, online resource): **Google Earth**

I. Tax Parcel Identification Number(s):

[Number may be obtained from property tax bill or from the county property appraiser's office; if on multiple parcels, provide multiple Tax Parcel Identification Numbers]

Tax parcel identification numbers are provided below:

302310000000013	302312000000064	312307000000004
302310303201030	312312000000008	302310303200961
302312129510000	302310303200521	302310303200980
302310303200510	302311000000019	302310303200950
302310736100001	322307000000001	302310303201000
312308205100005	302311890300001	312312000000005
312307000000005	302310683900010	312308205100003
312309000000004	312308374701000	302312129900002
312312000000007	312322000000001	302312000000048
302310889600008	302312129712000	302312000000009
312308000000010	302312129712000	

J. Directions to Site (from major roads; include distances and landmarks as applicable):

Pershing Substation: 6003 Pershing Avenue, west of Woodgate Blvd.; Stanton North Substation: Approximately 0.5 mile south of intersection of Innovation Way and South Alafaya Trail

K. Project area or phase area: **126.36** acres

L. Name of waterbody(ies) (if known) in which activities will occur or into which the system will discharge:
N/A

The following questions (M-O) are not applicable to activities related to a single-family residence, including private single-family residential docks, piers, seawalls or boat ramps.

M. Is it part of a larger plan of development or sale? ☐ yes ☒ no

N. Impervious or semi-impervious area excluding wetlands and other surface waters (if applicable):
0 acres or **0** square feet

O. Volume of water the system is capable of impounding (if applicable): **0** acre-feet.

PART 2: SUPPLEMENTAL INFORMATION, AND PERMIT HISTORY

- A. Is this an application to modify an existing Environmental Resource Permit, or to construct or implement part of a multi-phase project, such as a project with a Conceptual Approval permit? ☒ Yes ☐ No *If you answered "yes", please provide permit numbers below:*

AGENCY	DATE	PERMIT/APPLICATION NO.	PROJECT NAME
FDEP	12/15/1982	PA81-14	Unit 1
FDEP	12/17/1991	PA81-14	Unit 2
FDEP	09/21/2001	PA81-14	Unit A
FDEP	12/08/2006	PA81-14	Unit B

- B. Indicate if there have been any ***pre-application meeting(s)*** or other discussions about the proposed project, system or activity. If so, please provide the date(s), location(s) of the meeting, and the name(s) of Agency staff that attended the meeting(s):

AGENCY	DATE	LOCATION	MEETING ATTENDEES

- C. ***Attach a depiction (plan and section views), which clearly shows the works or other activities proposed to be constructed.*** Use multiple sheets, if necessary, a scale sufficient to show the location and type of works, and include a north arrow and a key to any symbols used. ***Specific information to be included in the plans is based on the activities proposed and is further described in Sections B-H.*** However, supplemental information may be required based on the specific circumstances or location of the proposed works or other activities.

See Attachment B – Construction Plans

- D. Processing Fee: ***Please submit the application processing fee along with this application form and supplemental information.*** Processing fees vary based on the size of the activity, the type of permit applied for, and the reviewing Agency. Please reference Attachment 3 to determine the appropriate fee.

The \$250 application processing fee is being submitted under separate cover.

PART 3: APPLICANT AND ASSOCIATED PARTIES INFORMATION

Instructions: Permits are only issued to entities having sufficient real property interest as described in Section 4.2.3 (d) of Applicant's Handbook Volume I. Please attach evidence of sufficient real property interest over the land upon which the activities subject to the application will be conducted, including mitigation (if applicable). Refer to Section 4.2.3 (d) for acceptable ownership or real property interest documentation. For corporations, list a person who is a registered agent or officer of the corporation who has the legal authority to bind the corporation.

A. APPLICANT (ENTITY MUST HAVE SUFFICIENT REAL PROPERTY INTEREST) ☒ THIS IS A CONTACT PERSON FOR ADDITIONAL INFORMATION			
Name: Last: Toporek		First: Ron	Middle:
Title: Director of Transmission		Company: Orlando Utilities Commission	
Address: 6003 Pershing Avenue			
City: Orlando		State: FL	Zip: 32822
Home Telephone:		Work Telephone: 407-434-4126	
Cell Phone:		Fax: 407-434-4356	
E-mail Address: rtoporek@ouc.com			
Correspondence will be sent via email. Check here to receive correspondence via US Mail: ☐			
B. LAND OWNER(S) (IF DIFFERENT OR IN ADDITION TO APPLICANT) ☐ CHECK HERE IF LAND OWNER IS ALSO A CO-APPLICANT			
Name: Last:		First:	Middle:
Title:		Company:	
Address:			
City:		State:	Zip:
Home Telephone:		Work Telephone:	
Cell Phone:		Fax:	
E-mail Address:			
Correspondence will be sent via email. Check here to receive correspondence via US Mail: ☐			
C. OPERATION AND MAINTENANCE ENTITY (see Applicant's Handbook I, Section 12.3)			
Entity Name:		Contact: Last:	First: Middle:
Title:		Company:	
Address:			
City:		State:	Zip:
Home Telephone:		Work Telephone:	
Cell Phone:		Fax:	
E-mail Address:			
Correspondence will be sent via email. Check here to receive correspondence via US Mail: ☐			

D. CO-APPLICANT (IF DIFFERENT OR IN ADDITION TO APPLICANT AND OWNER)		
Name: Last:	First:	Middle:
Title:	Company:	
Address:		
City:	State:	Zip:
Home Telephone:		Work Telephone:
Cell Phone:	Fax:	
E-mail Address:		
Correspondence will be sent via email. Check here to receive correspondence via US Mail: ☐		
E. ENGINEERING CONSULTANT ☐ THIS IS A CONTACT PERSON FOR ADDITIONAL INFORMATION		
Name: Last:	First:	Middle:
Title:	Company:	
Address:		
City:	State:	Zip:
Home Telephone:		Work Telephone:
Cell Phone:	Fax:	
E-mail Address:		
Correspondence will be sent via email. Check here to receive correspondence via US Mail: ☐		
F. ENVIRONMENTAL CONSULTANT ☒ THIS IS A CONTACT PERSON FOR ADDITIONAL INFORMATION		
Name: Last: Bullock	First: Karl	Middle:
Title: Senior Scientist	Company: Golder Associates	
Address: 6026 NW 1st Place		
City: Gainesville	State: FL	Zip: 32607
Home Telephone:		Work Telephone: 352-336-5600
Cell Phone:	Fax: 352-336-6603	
E-mail Address: kbullock@golder.com		
Correspondence will be sent via email. Check here to receive correspondence via US Mail: ☐		
G. AGENT AUTHORIZED TO SECURE PERMIT (IF DIFFERENT FROM CONSULTANT) ☐ THIS IS A CONTACT PERSON FOR ADDITIONAL INFORMATION		
Name: Last:	First:	Middle:
Title:	Company:	
Address:		
City:	State:	Zip:
Home Telephone:		Work Telephone:
Cell Phone:	Fax:	
E-mail Address:		

Correspondence will be sent via email. Check here to receive correspondence via US Mail: ☐

If necessary, please add additional pages for other contacts and property owners related to this project.

PART 4: SIGNATURES AND AUTHORIZATION TO ACCESS PROPERTY

Instructions: For multiple applicants please provide a separate Part 4 for each applicant. For corporations, the application must be signed by a person authorized to bind the corporation. A person who has sufficient real property interest (see Section 4.2.3 (d) of Applicant's Handbook Volume I) is required in (B) to authorize access to the property, except when the applicant has the power of eminent domain.

A. By signing this application form, I am applying for the permit and any proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application and represent that such information is true, complete and accurate. I understand this is an application and not a permit, and that work prior to approval is a violation. I understand that this application and any permit issued or proprietary authorization issued pursuant thereto, does not relieve of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a different responsible operation and maintenance entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

Ron Toporek

Typed/Printed Name of Applicant or
Applicant's Authorized Agent

Signature of Applicant or Applicant's
Authorized Agent

Date

1-30-2014

Director of Transmission

(Corporate Title if applicable)

B. CERTIFICATION OF SUFFICIENT REAL PROPERTY INTEREST AND AUTHORIZATION FOR STAFF TO ACCESS THE PROPERTY:

I certify that:

☒ I possess sufficient real property interest in or control, as defined in Section 4.2.3 (d) of Applicant's Handbook Volume I, over the land upon which the activities described in this application are proposed and I have legal authority to grant permission to access those lands. I hereby grant permission, evidenced by my signature below, for staff of the Agency and the U.S. Army Corps of Engineers to access, inspect, and sample the lands and waters of the property as necessary for the review of the proposed works and other activities specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review, inspection, and/ or sampling. Further, I agree to provide entry to the project site for such agents or personnel to monitor and inspect permitted work if a permit is granted.

OR

☐ I represent an entity having **the power of eminent domain and condemnation authority**, and I/we shall make appropriate arrangements to enable staff of the Agency and the U.S. Army Corps of Engineers to access, inspect, and sample the property as described above.

Ron Toporek

Typed/Printed Name

Signature

Date

1-30-2014

Director of Transmission

(Corporate Title if applicable)

Form 62-330.060(1) - Joint Application for Individual Environmental Resource Permit/ Authorization to Use
State-Owned Submerged Lands/ Federal Dredge and Fill Permit
Incorporated by reference in subsection 62-330.060(1), F.A.C. (10-1-2013)

C. DESIGNATION OF AUTHORIZED AGENT (IF APPLICABLE):

I hereby designate and authorize _____ to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above; and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirements which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

_____ Typed/Printed Name of Applicant	_____ Signature of Applicant	_____ Date
--	---------------------------------	---------------

(Corporate Title if applicable)

(9.25.13)

SECTION C: SUPPLEMENTAL INFORMATION FOR WORKS OR OTHER ACTIVITIES IN, ON, OR OVER WETLANDS AND/OR OTHER SURFACE WATERS

(Note: This section is not required if all the proposed activities are covered in Section B.)

Instructions: This section is for ERP applications that do not involve activities associated with an individual single-family residence, duplex, triplex or quadruplex. For those activities, please use Section B. This form is to be completed if the proposed work or activity will occur in, on, over, or within 25 feet of a wetland or other surface water. The supplemental information required by this section is in addition to the information required by Section A of the ERP application.

PART 1: WETLAND OR OTHER SURFACE WATER IMPACT SUMMARY

1. Describe the basic purpose of the project or activity:

Replacement of existing transmission structures with steel monopole structures and installation of 4 new steel monopole structures to support larger diameter conductors required for additional transmission capacity and increased transmission system reliability.

2. Total area of work (dredging, filling, construction, alteration, or removal) in, on, or over wetlands or other surface waters: **118,919 sq. ft.; 2.73 ac. Limited to temporary impact associated with construction matting. No permanent wetland fill is proposed.**
3. Total volume of material in wetlands or other surface waters:
 - a. to be dredged: **0** cubic yards,
 - b. to be filled: **0** cubic yards.
4. Identify the seasonal high water level (SHWL) and wetland normal pool elevations for each wetland or surface water within the project site. For tidal wetlands and/or surface waters provide the elevation of mean high and mean low water. Include an aerial photograph showing the location of each sampling location, dates, datum, and methods used to determine these elevations.

Seasonal high water elevations were approximated based upon the wetland boundary lines delineated in December 2013 (Attachment C) and the site topographic survey. Approximate seasonal high water elevations for wetlands located between the Stanton North Substation and Innovation way are 58 ft NAD83/11, while wetlands west of Innovation Way range from approximately 72 to 78 ft NAD83/11; normal pool elevations are approximately 8" below seasonal high water elevation.

5. Name of waterbody(ies) (if applicable & if known) in which work will occur? **N/A**
6. Is the activity proposed in an Outstanding Florida Water or Aquatic Preserve?
☐ yes, name: ☒ no ☐ I don't know
7. Has there ever been a formal or informal wetland determination for the project site? If yes, provide the identifying number and/ or a copy of the jurisdictional map.

No; portions of the ROW immediately north of the current Project areas were delineated in associated with the Stanton Substation #17 to Curry Ford transmission structure project (post-certification amendment dated 4/5/2012, approved 5/7/2012).

8. Provide a map(s) of the project area and vicinity delineating USDA/NRCS soil types.

See Attachment A – Site Location Information, Figure 2 - Soils

9. Provide recent aerials, legible for photointerpretation (no photocopies) with a scale of 1" = 400 ft, or more detailed, with project boundaries and wetland boundaries delineated on the aerial.

See Attachment A – Site Location Information, Figure 3 – Aerial Map and Attachment C – Wetland Survey

10. Provide existing and proposed maps indicating vegetative community types based on Florida Land Use and Cover Classification System (FLUCCS) (FDOT 1999). For vegetated areas dominated by exotic vegetation, use the FLUCCS code representative of the native community type that was present prior to exotic infestation.

See Attachment A – Site Location Information, Figure 4 – FLUCFCS Map

11. Provide existing and proposed maps indicating vegetative community types based on the Florida Natural Areas Inventory Guide to the Natural Communities of Florida.

The entire Project is within an existing cleared transmission line ROW. According to the Florida Natural Areas Inventory (FNAI) Guide to the Natural Communities of Florida, Appendix 2 (Altered Landcover Types), transmission line ROWs are classified as Utility Corridors.

12. Impact Summary Tables (located at the end of this section):

- a. For all projects, complete Table 1, 2 and 3 as applicable. **Table 1 is provided below**
- b. For shoreline stabilization projects, provide the information requested in Table 4. **N/A**

13. Adjacent property owners. The following information is required only for projects proposed to occur in, on or over wetlands that need a federal dredge and fill permit and/or authorization to use state owned submerged lands and is not necessary when applying solely for an Environmental Resource Permit. If the activity is located on state owned submerged lands and requires a lease or easement, provide a list of names and addresses from the latest county tax assessment roll of all property owners located within a 500 ft. radius of the proposed lease or easement boundary in mailing label format, or you may elect to send notice to those persons by certified mail, with the return-receipt card addressed to the DEP or water management district, as applicable, in accordance with subsection 18-21.005(3), F.A.C., and Section 253.115, F.S. For projects that need a federal dredge and fill permit, please provide the names, addresses and zip codes of property owners whose property directly adjoins the project (excluding applicant). Attach additional sheets if necessary.

Please see Attachment D – Adjacent Property Owners for the names, addresses, and locations of properties within a 500 foot radius of the Project Area.

1.	2.
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PART 2: ENVIRONMENTAL CONSIDERATIONS

Note: for many questions, a state rule/Applicant's Handbook Volume I (AH I) section is cited to assist the applicant in addressing these questions. However, additional Federal criteria may apply.

1. Elimination or Reduction of Impacts (Avoidance and Minimization). Describe measures taken to eliminate or reduce impacts to wetlands and other surface waters (*Refer to AH I Section 10.2.1*).

Elimination and reduction of wetland impacts will be achieved through use of existing access roads and utilization of temporary construction matting for installation of transmission structures in proximity to jurisdictional wetlands. No permanent wetland impacts are proposed.

2. Fish, Wildlife, Listed Species and their Habitats. Provide results of any wildlife assessments that have been conducted on the project site and provide any comments pertaining to the project from the Florida Fish and Wildlife Conservation Commission and/or the U.S. Fish and Wildlife Service (*Refer to AH I Section 10.2.2*).

Wildlife surveys within the Project area were conducted in December 2013. A total of 18 burrows of the state-threatened gopher tortoise (*Gopherus polyphemus*) were identified within and immediately adjacent to the Project area, as illustrated in Attachment A – Site Location Information, Figure 5 – Listed Species Map. Although no additional listed species were observed within the transmission line ROW, several listed species of wading birds were observed or are likely to occur within forested wetland and marsh/ditch habitats adjacent to the ROW, including the federally-endangered wood stork (*Mycteria americana*), as well as species classified by the Florida Fish and Wildlife Conservation Commission (FWC) as species of special concern, such as the little blue heron (*Egretta caerulea*), snowy egret (*Egretta thula*), and white ibis (*Eudocimus albus*). The Florida Natural Areas Inventory (FNAI) database of documented listed species occurrences includes 2 occurrences of the state and federally-endangered plant species beautiful pawpaw (*Deeringothamnus pulchellus*) in the vicinity of the ROW. The replacement of existing transmission structures will avoid any individuals of beautiful pawpaw within the ROW; any unavoidable individuals will be relocated prior to construction. The Florida Fish and Wildlife Conservation Commission (FWC) bald eagle nest database revealed one bald eagle nest (nest ID # OR062) located approximately 1/2 mile south of the transmission line ROW. The nest was last active in 2008. The Project is located outside of the FWC and US Fish and Wildlife Service's recommended 660-foot buffer zone surrounding the nest, therefore no adverse impact is anticipated with regards to the bald eagle.

3. Water quantity impacts to wetlands and other surface waters (*Refer to AH I Section 10.2.2.4 and AH II*).
 - a. Does the activity include a proposed stormwater water management system with a control elevation different than the wetland normal pool elevation(s) of existing or proposed created wetlands or other surface waters? **N/A**
 - b. If yes to (a), provide documentation (e.g. drawdown assessment or other methods) that shows the proposed surface water management system will not change the hydroperiod of the existing or created wetland or other surface water. **N/A**

4. Public Interest Test. Please describe how the proposed activity will ***not be contrary*** to the public interest, OR if such an activity significantly degrades or is located within an Outstanding Florida Water (OFW), that the regulated activity will be ***clearly in*** the public interest (*Refer to AH I Section 10.2.3*).

- a. Please describe how the project will be designed to avoid adverse effects to public health, safety, or the welfare or the property of others.

The Project involves replacement of aging wood H-frame transmission structures with steel monopoles. The Project provides benefits to public health, safety, and the property of others through increased transmission system reliability and capacity.

- b. Please describe how the project will be designed to avoid adverse effects to the conservation of fish and wildlife, including endangered or threatened species, or their habitats.

The Project will be conducted within an existing cleared transmission line ROW using existing access roads to reduce and eliminate impacts to listed species or their habitats. In order to avoid impacts to the threatened gopher tortoise, OUC will excavate burrows within 25 feet of the construction footprint and temporarily relocate captured individuals to undisturbed areas of the ROW, in accordance with the FWC gopher tortoise permitting guidelines.

- c. Please describe how the project will be designed to avoid adverse effects to navigation or the flow of water or cause harmful erosion or shoaling. **N/A**
- d. Please describe how the project will be designed to avoid adverse effects to the fishing or recreational values or marine productivity in the vicinity of the activity. **N/A**
- e. Will the project be of a temporary or permanent nature?

The replacement of existing transmission structures will be permanent; the impacts associated with construction will be temporary.

- f. Please describe how the project will be designed to avoid adverse impacts to significant historical and archaeological resources, under the provisions of section 267.061, F.S. **N/A**
- g. Please describe how the project will be designed to avoid adverse effects to the current condition and relative value of functions being performed by areas affected by the proposed regulated activity. **N/A**

5. Water Quality. Provide a description of how water quality will be maintained in wetlands and other surface waters that will be preserved or will remain undisturbed, both on and offsite. Please address both short-term (such as during construction) and long-term water quality considerations (*Refer to AH I Section 10.2.4*).

The replacement of existing structures will not result in short term or long-term water quality impacts. No permanent wetland or surface water impacts are proposed. The temporary construction area will be isolated from adjacent wetlands through installation of staked turbidity screen and/or silt fence, in accordance with best management practices (BMPs).

6. Class II Waters; Waters approved for shellfish harvesting (*Refer to AH I Section 10.2.5*).

- a. Will the project occur in Class II that are NOT approved for shellfish harvesting? If yes, please provide a plan or procedure detailing the measures to be taken to meet the requirements of *AH I Section 10.2.5(a)*. **No**
 - b. Is the project located adjacent to or in close proximity to Class II waters? If yes, please provide a plan or procedure detailing the measures to be taken to meet the requirements of *AH I Section 10.2.5(b)*. **No**
 - c. Is the project located in Class II or Class III waters that are classified as “approved”, “restricted”, “conditionally approved”, or “conditionally restricted”? If yes, demonstrate that the project meets the requirements of *AH I Section 10.2.5(c)*. **No**
7. Vertical seawalls. Are vertical seawalls proposed in an estuary or lagoon as part of the project? If yes, please describe how the project meets the requirements of *AH I Section 10.2.6*. **No**
8. Secondary Impacts (*AH I Section 10.2.7*).
- a. Will an upland buffer, with a minimum width of 15' and an average width of 25', be provided between the proposed activities and existing wetlands or wetlands to be preserved, enhanced, restored, or created? Provide the location and dimension of all buffers on the plans. **N/A** If not, demonstrate that secondary impacts will not occur or how they will be offset.

The replacement of existing transmission structures will not require any wetland dredge/fill impacts, and implementation of BMPs to avoid erosion/sedimentation within adjacent wetlands will minimize potential secondary wetland impacts.

- b. If listed species are present or may be present then coordination with wildlife agencies is needed. Have you coordinated with the FFWCC and/or USFWS? If so, please provide correspondence from the wildlife agencies indicating concurrence with the species management plan(s).

A permit for burrow excavation and temporary exclusion of gopher tortoises has been submitted to the FWC.

- c. What measures will be taken to avoid impacts to wetland-dependent wildlife and/or listed species that use uplands for nesting or denning?

Measures to avoid impacts to wetland-dependent wildlife and/or listed species that use uplands for nesting or denning include use of existing access roads and placement of replacement transmission structures without construction of any new transmission structure pads, as well as incorporation of BMPs to minimize any erosion or sedimentation outside of the Project Area and relocation of gopher tortoises outside of the temporary construction area.

- d. Describe whether there are any other relevant activities that are very closely linked and causally related to any proposed dredging or filling in wetlands or other surface waters that have the potential to cause impacts to significant historical and archaeological resources.

No dredging/filling is proposed.

- e. Are there additional future phases or extensions of the proposed activities that are not shown? If yes, please describe. **No.**

9. Cumulative Impacts. Is the proposed mitigation located within the same drainage basin (*Refer to AH I Figures 10.2.8.1 – 10.2.8.5*) as the proposed wetland impacts? **N/A** If not, please submit a Cumulative Impact Evaluation in accordance with *AH I Section 10.2.8*.

10. Mitigation Plan (*Refer to AH I Section 10.3*).

- a. If a mitigation bank is proposed to offset wetland/other surface water impacts, provide:

- i. the name of the bank: **N/A**. A letter of reservation from the banker will be required once the application has been evaluated.
- ii. If the mitigation bank was assessed using UMAM, provide UMAM worksheets for impact area(s). If the bank was assessed using a method other than UMAM, then prepare the impact assessment using the same method.

N/A – no permanent wetland impacts are proposed. Following construction, temporary matting will be removed and wetland vegetation will regenerate from the existing seed bank. UMAM functional assessments of each wetland type within the Project Area and USACE wetland datasheets are included in Attachment E.

- b. If mitigation is proposed to offset wetland/other surface water impacts, please provide a mitigation plan that includes, at a minimum, the following: **N/A**

- i. ☐ Proposed mitigation narrative:
 - (1) ☐ Describe the current and proposed condition for each type of mitigation component (restoration, enhancement, creation, preservation), including:
 - (a) ☐ Describe current and proposed vegetation
 - (b) ☐ Describe current and proposed hydrologic conditions for the proposed mitigation.
 - (c) ☐ Describe the soil types from NRCS maps and confirm if actual soil conditions appear to match.
 - (2) ☐ Provide details of the proposed construction/mitigation activities including phasing and timing, as appropriate.
 - (3) ☐ Identify measures that will be implemented during and after construction to avoid adverse impacts related to the proposed activities.
 - (4) ☐ A mitigation implementation and monitoring schedule with dates.
 - (5) ☐ Identify the success criteria.
 - (6) ☐ Describe the anticipated site conditions in and around the mitigation area after the mitigation plan is successfully implemented.
 - (7) ☐ Provide a comparison of current fish and wildlife habitat to expected habitat after the mitigation plan is successfully implemented.
- ii. ☐ Provide a Management Plan that includes, as appropriate, aspects of operation and maintenance, including water management practices, vegetation establishment, exotic and nuisance species control, fire management, and control of access.
- iii. ☐ Maps:
 - (1) ☐ Soil map (include soil names/codes, hydrologic soil groups and hydric soil types).

- (2) ☐ Topographic map of the mitigation area and adjacent contributing and receiving areas.
 - (3) ☐ Hydrologic features map of the mitigation area and adjacent contributing and receiving areas.
 - (4) ☐ Vegetative communities map (using FLUCCS or other appropriate classification system).
 - (5) ☐ For all maps, identify source.
- iv. Provide the necessary supporting information for the application of sections 62-345.400 - .600 (Uniform Mitigation Assessment Method (UMAM)). To meet this requirement, submittal of UMAM worksheets is acceptable for impact and mitigation areas.
 - v. If onsite and/or offsite applicant-responsible mitigation is proposed, submit a draft Conservation Easement document or other form of restrictive covenant that provides for protection of the mitigation area in perpetuity. Standard forms, as described in subsection 62-330.301(6), F.A.C., are available from the Agency or on its website.
 - vi. If onsite and/or offsite applicant-responsible mitigation is proposed, submit a cost estimate for completing the mitigation, including monitoring and maintenance.
 - vii. If onsite and/or offsite applicant-responsible mitigation is proposed and the proposed mitigation exceeds \$25,000, please provide a draft financial assurance document.
 - viii. Identify the entity responsible for monitoring, maintenance and long-term stewardship of the mitigation area (i.e. the landowner or homeowner association, not the consultant or contractor that will do the work).

PART 3: PLANS

PLANS: The information listed in the checklist below represent the typical information required on the submitted project plans. The Plans checklists in each application section are cumulative unless otherwise noted. Separate plans for each application section are not required.

See Attachment B – Construction Plans

1. ☐ Include the following on the construction plans and cross sections:
 - a. ☐ An Existing Conditions sheet showing the entire project and wetland/other surface water boundaries. Include the following: Acreage and type (herbaceous, forested or other surface water) of each wetland/other surface water.
 - b. ☐ A Proposed Conditions sheet showing the entire project and wetland/other surface water boundaries with construction plan overlay.
 - c. ☐ A Proposed Wetland Impact sheet that include the following: **See Table 1 – Project Wetland Impact Summary**
 - i. ☐ Acreage and type (herbaceous, forested or other surface water) of each wetland/other surface water to be impacted.
 - ii. ☐ Proposed upland buffers with dimensions. **N/A**
 - iii. ☐ Identify the seasonal high water and wetland normal pool elevations on the plans.
 - iv. ☐ Separately identify WMD/FDEP and USACE wetland/other surface water impacts if different.
 - d. ☐ Include wetland boundaries on all construction plan sheets.
2. ☐ If onsite and/or offsite applicant-responsible mitigation is proposed, submit mitigation permit plans and cross sections including, at a minimum: **N/A**
 - a. ☐ existing conditions plan sheet identifying upland and wetland communities and acreage of each, topography, drainage patterns, and location of cross-section detail.
 - b. ☐ proposed conditions plan sheet identifying proposed improvements by type (restoration, enhancement, creation, preservation), acreage of each, topography, drainage patterns, and location of cross-section detail.
 - c. ☐ monitoring plan sheet including proposed improvements, monitoring transects, photostations, and mitigation signage (if applicable).
 - d. ☐ cross-section and/or profile detail(s) sheet(s) including representative section of each type of mitigation component. Include existing and proposed conditions and representative elevations.
 - e. ☐ planting schedule, plant species including common and scientific names divided into three sections (canopy, shrub, herbaceous) by mitigation component, quantity, spacing, size, and elevation range.

TABLE 1 - PROJECT WETLAND (WL) AND OTHER SURFACE WATER (SW) AND IMPACT SUMMARY

WL & SW ID	WL & SW TYPE (FLUCFCS Code)	WL & SW SIZE (acres)	WL & SW NOT IMPACTED (acres)	TEMPORARY WL & SW IMPACTS		PERMANENT WL & SW IMPACTS		MITIGATION ID
				IMPACT SIZE (acres)	IMPACT TYPE	IMPACT SIZE (acres)	IMPACT TYPE	
A	630/643/511	0.710	0.604	0.106	Matting	-	-	N/A
B	630/511	0.376	0.376	-	-	-	-	-
C1	630/641/511/534	3.206	3.034	0.172	Matting	-	-	N/A
C2	511/641	0.345	0.345	-	-	-	-	-
C3	511	0.023	0.023	-	-	-	-	-
D	511/643	0.450	0.353	0.097	Matting	-	-	N/A
E	511/643	1.486	1.224	0.262	Matting	-	-	N/A
F	643	1.369	1.051	0.318	Matting	-	-	N/A
G	643	3.012	2.350	0.662	Matting	-	-	N/A
H	643	0.376	0.303	0.073	Matting	-	-	N/A
I	643	0.628	0.476	0.152	Matting	-	-	N/A
J	643	0.840	0.630	0.210	Matting	-	-	N/A
K	643	0.342	0.292	0.050	Matting	-	-	N/A
L	511	0.005	0.005	-	-	-	-	-
M	643	0.173	0.171	0.002	Matting	-	-	N/A
N	643	0.125	0.125	0.0002	Matting	-	-	N/A
O	643	0.003	0.003	-	-	-	-	-

P	511/641	0.039	0.039	-	-	-	-	-
Q	643	0.039	0.026	0.013	Matting	-	-	N/A
S	641	0.011	0.011	-	-	-	-	-
T	511/643	0.076	0.076	-	-	-	-	-
U	511/643	0.007	0.007	-	-	-	-	-
V	617	0.006	0.006	-	-	-	-	-
W	643	0.074	0.074	-	-	-	-	-
X	510	0.116	0.116	-	-	-	-	-
Z	511	0.027	0.027	-	-	-	-	-
AA	511/643/641	0.285	0.285	-	-	-	-	-
AB	643	0.350	0.350	-	-	-	-	-
AC	643	1.093	1.093	-	-	-	-	-
AD	534	0.322	0.322	-	-	-	-	-
*C	641	0.153	0.153	-	-	-	-	-
*E	643	0.076	0.076	-	-	-	-	-
*F	641	0.889	0.762	0.127	Matting	-	-	N/A
*G	643	0.243	0.137	0.106	Matting	-	-	N/A
*H	641	0.248	0.211	0.037	Matting	-	-	N/A
*J	643	0.009	0.009	-	-	-	-	-
*K	641	0.077	0.038	0.039	Matting	-	-	N/A
*L	641	0.133	0.125	0.008	Matting	-	-	N/A
*M	511	0.018	0.018	-	-	-	-	-
*O	643	0.716	0.506	0.210	Matting	-	-	N/A

*Q	643	0.184	0.171	0.013	Matting	-	-	N/A
*R	511	0.021	0.021	-	-	-	-	-
*S	511	0.104	0.104	-	-	-	-	-
*T	641	0.112	0.112	-	-	-	-	-
*U	643	0.161	0.114	0.047	Matting	-	-	N/A
*V	643	0.122	0.097	0.025	Matting	-	-	N/A
PROJECT TOTALS:		19.18	16.45	2.73		0		

Comments:

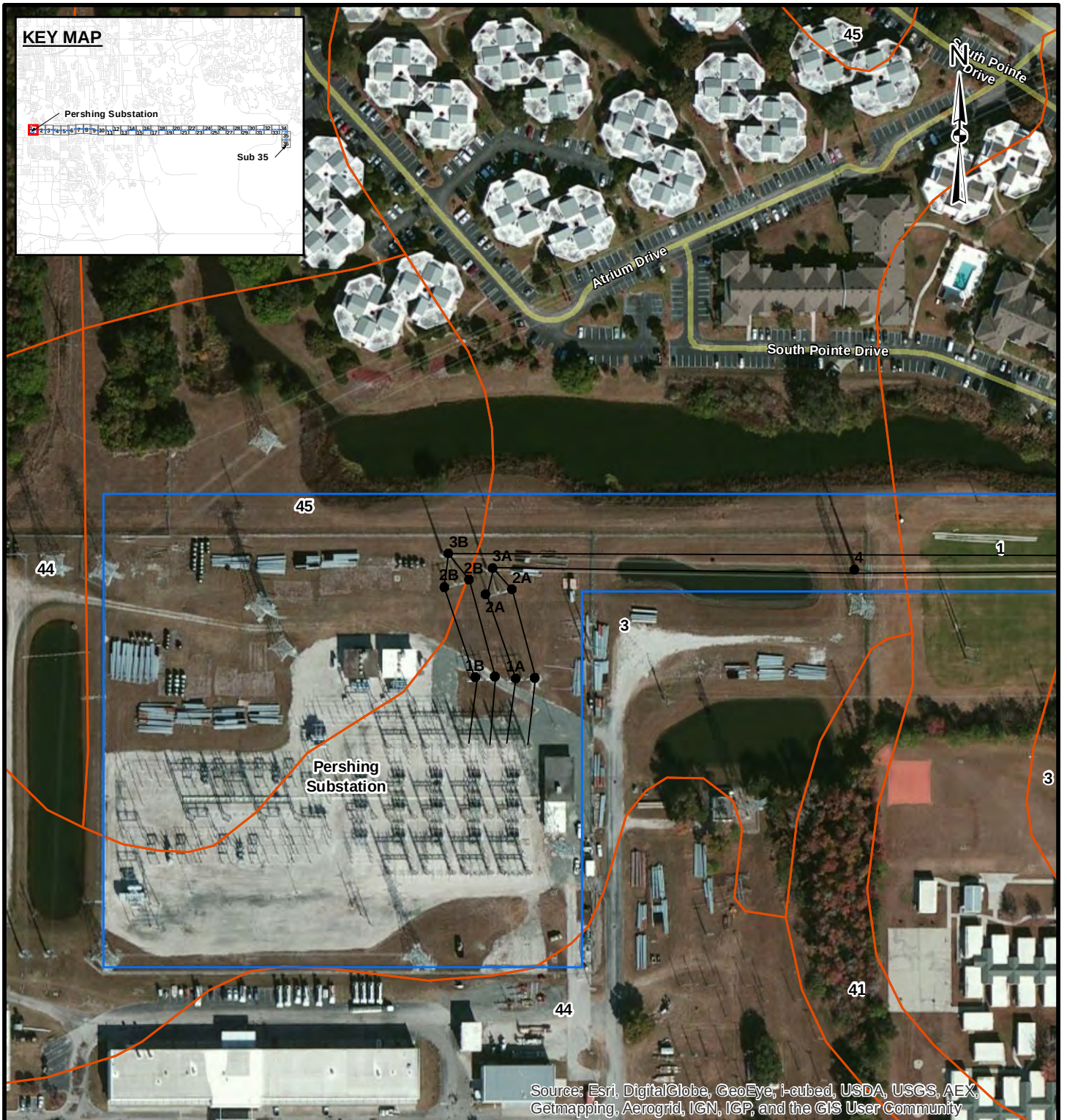
Codes (multiple entries per cell not allowed):

- Wetland & Surface Water ID: Include ID on submitted wetland and surface water impact maps
- Wetland Type: from an established wetland classification system

Impact Type: D=dredge; F=fill; H=change hydrology; S=shading; C=clearing; O=other

ATTACHMENT A
SITE LOCATION INFORMATION

G:\PROJECTS\OUC\130_1332_Pershing_Stanton_North_Transmission_Upgrade\B_ERP_Report\Figures\1301332_B007_AdjacentPropertyOwners.mxd



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 1: Arents, Nearly Level
- 3: Basinger Fine Sand, Depressional
- 26: Ona Fine Sand
- 27: Ona-Urban Land Complex
- 41: Samsula-Hontoon-Basinger Association, Depressional
- 44: Smyrna Fine Sand
- 45: Smyrna-Urban Land Complex

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

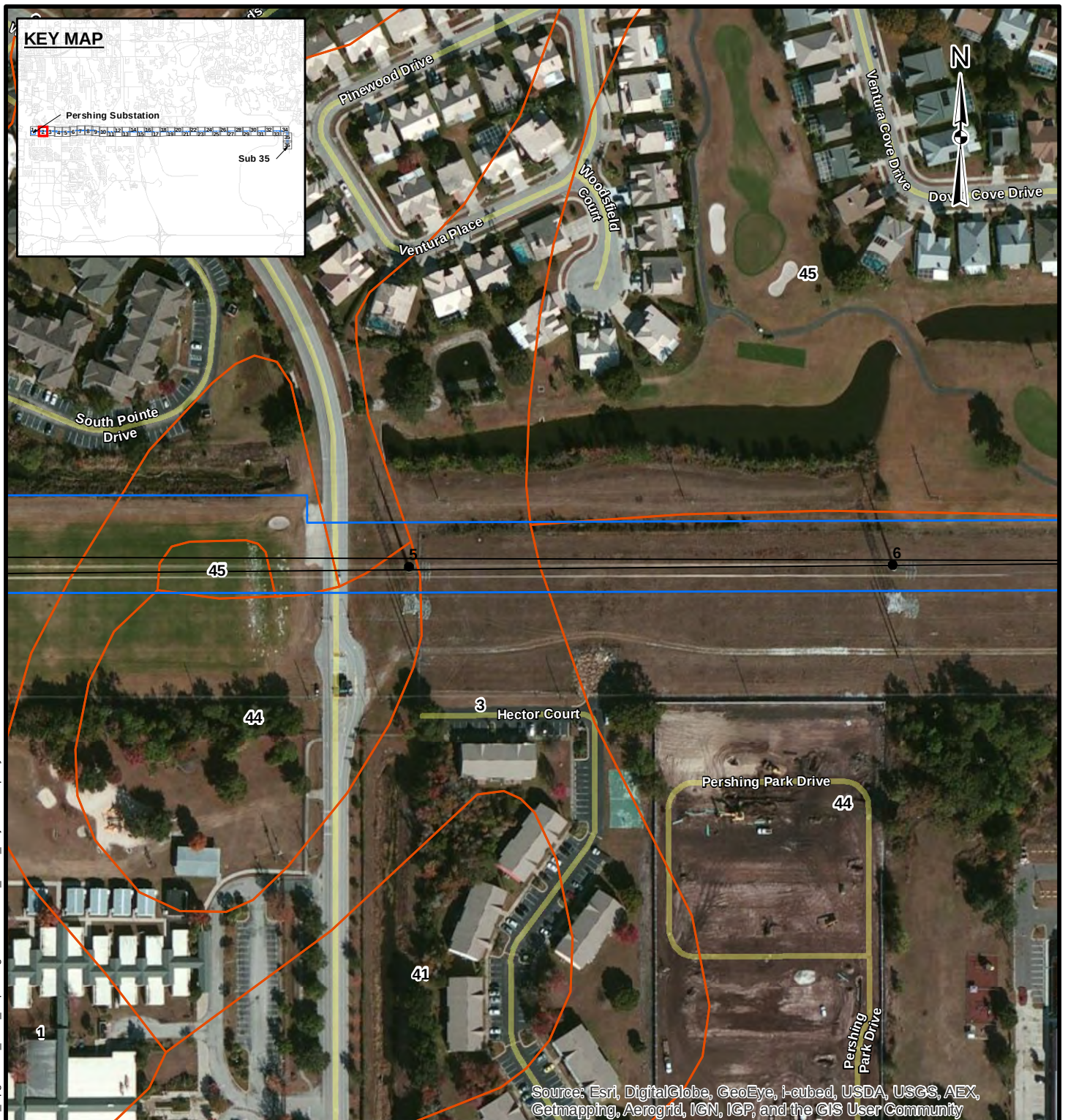
Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

200 0 200 Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT: OUC PERSHING TO STANTON 115kV UPGRADE PROJECT						
TITLE: SOILS MAP						
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GIS	NRL	2 Jan. 2014				
CHECK	KAB	24 Jan. 2014				
REVIEW	KAB	24 Jan. 2014				

FIGURE: 2
Page 1 of 36

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 1: Arents, Nearly Level
- 3: Basinger Fine Sand, Depressional
- 41: Samsula-Hontoon-Basinger Association, Depressional
- 44: Smyrna Fine Sand
- 45: Smyrna-Urban Land Complex

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

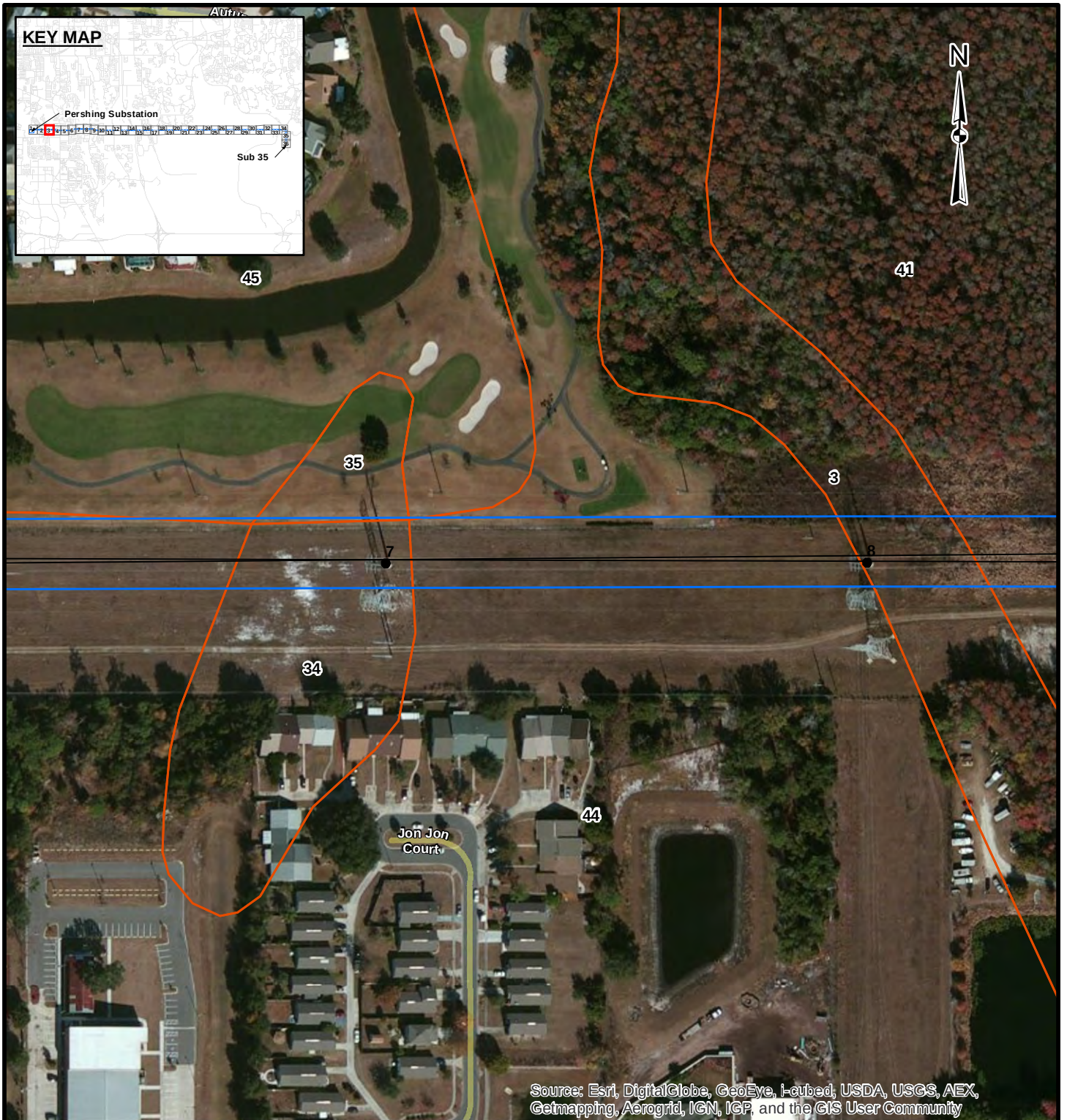
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Projection: Transverse Mercator
Datum: North American 1983

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REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
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TITLE						
SOILS MAP						
PROJECT No.			FILE No.			
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CHECK	KAB	24 Jan. 2014				
REVIEW	KAB	24 Jan. 2014				



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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes
- 35: Pomello-Urban Land Complex, 0 To 5 Percent Slopes
- 41: Samsula-Hontoon-Basinger Association, Depressional
- 44: Smyrna Fine Sand
- 45: Smyrna-Urban Land Complex

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

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TITLE														
SOILS MAP														
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CHECK			KAB			24 Jan. 2014								
REVIEW			KAB			24 Jan. 2014								
						FIGURE: 2 Page 3 of 36								

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes

- 35: Pomello-Urban Land Complex, 0 To 5 Percent Slopes
- 41: Samsula-Hontoon-Basinger Association, Depressional
- 42: Sanibel Muck
- 44: Smyrna Fine Sand
- 45: Smyrna-Urban Land Complex
- 54: Zolfo Fine Sand
- 55: Zolfo-Urban Land Complex

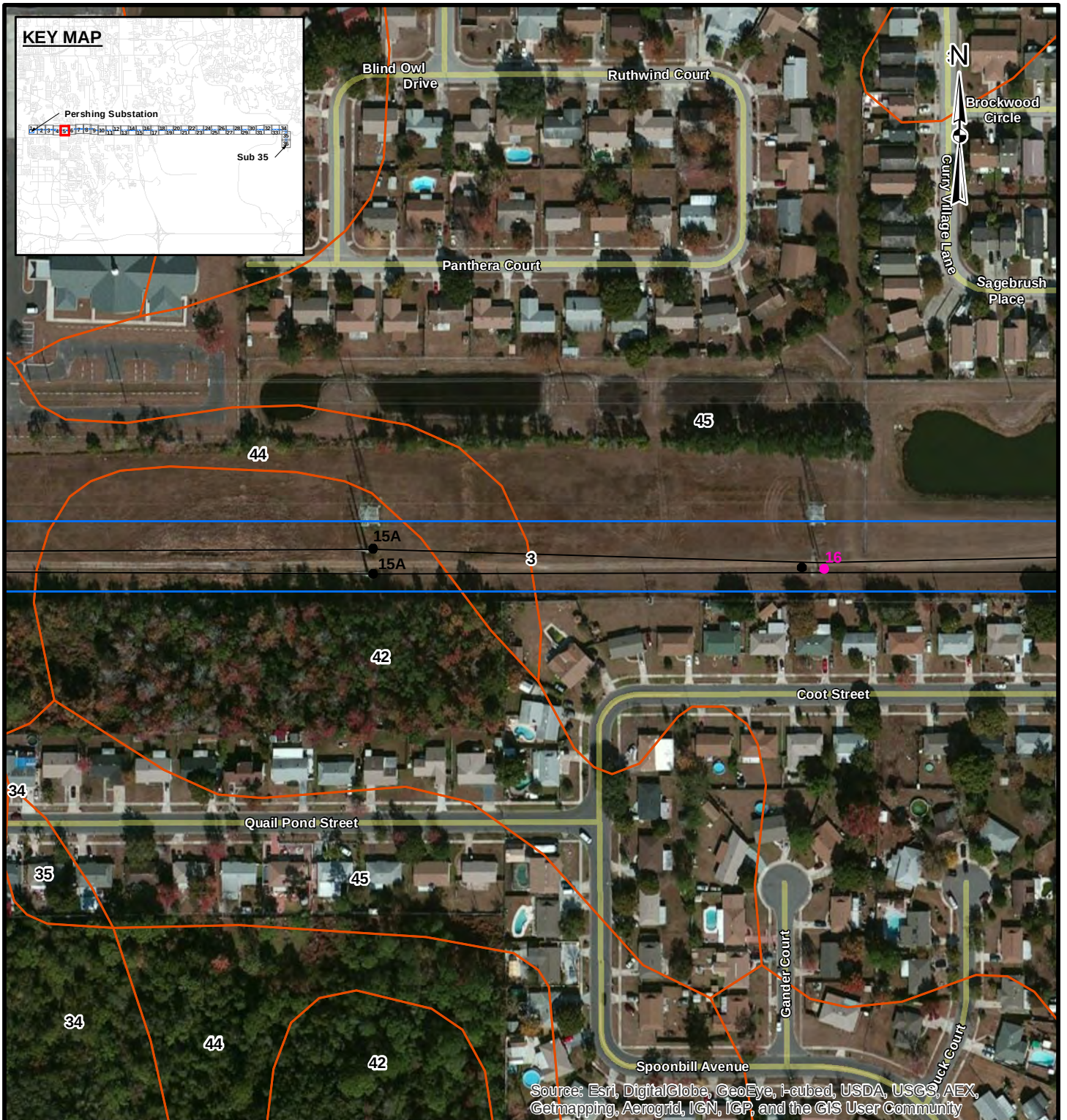
REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

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Datum: North American 1983

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Feet					
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REVIEW		KAB	24 Jan. 2014		
		FIGURE: 2			
		Page 4 of 36			

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes

- 35: Pomello-Urban Land Complex, 0 To 5 Percent Slopes
- 42: Sanibel Muck
- 44: Smyrna Fine Sand
- 45: Smyrna-Urban Land Complex
- 55: Zolfo-Urban Land Complex

200 0 200
Feet

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ Project Area
- ▭ Soils
- 3: Basinger Fine Sand, Depressional
- 42: Sanibel Muck
- 44: Smyrna Fine Sand
- 45: Smyrna-Urban Land Complex
- 99: Water

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
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TITLE											
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes
- 35: Pomello-Urban Land Complex, 0 To 5 Percent Slopes
- 42: Sanibel Muck
- 44: Smyrna Fine Sand
- 45: Smyrna-Urban Land Complex

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
 2. Soils, USDA/NRCS, 2012
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983



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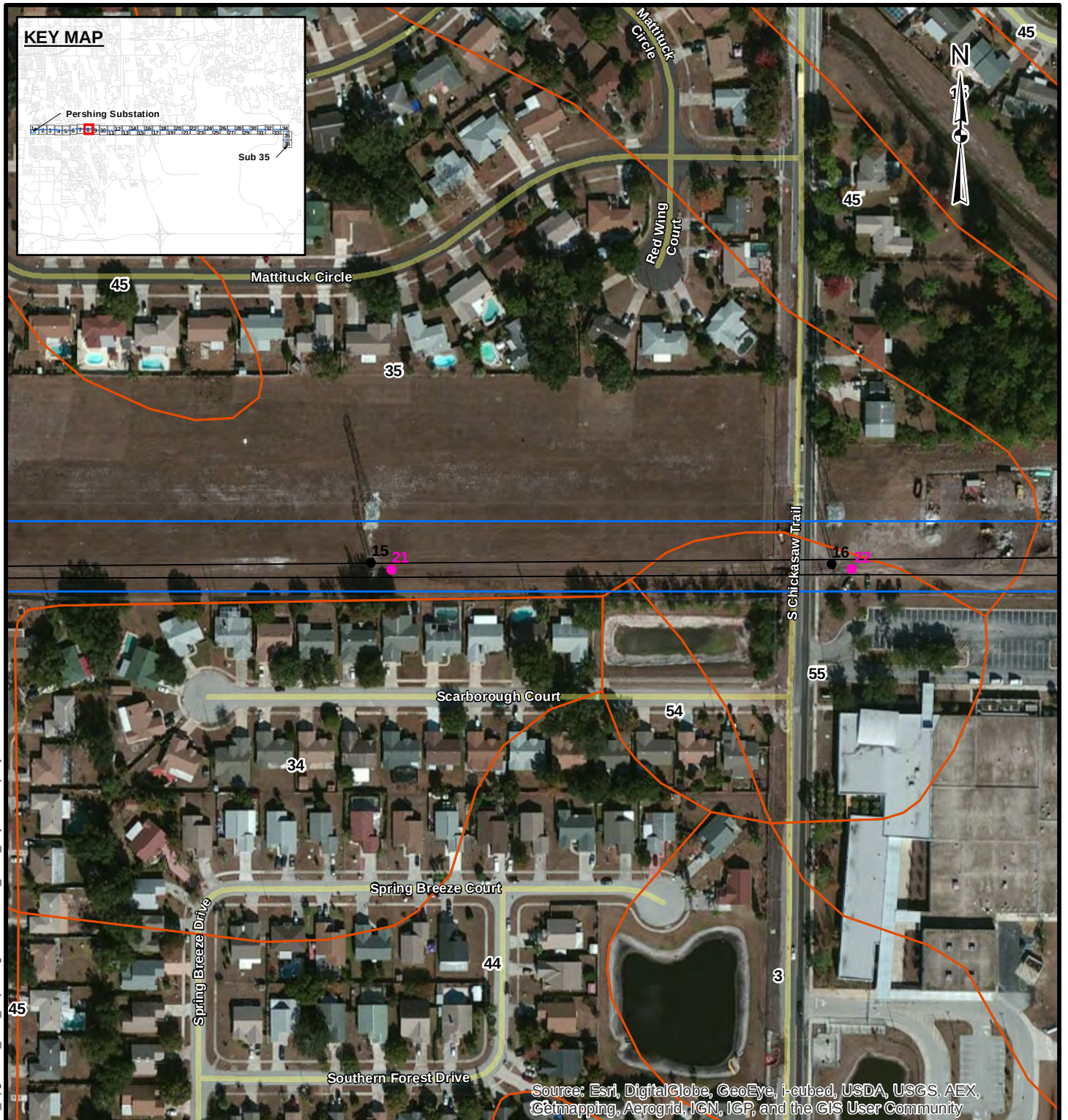
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TITLE	SOILS MAP					
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	CHECK	KAB	24 Jan. 2014			
	REVIEW	KAB	24 Jan. 2014			

FIGURE: 2
Page 7 of 36

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 15: Felda Fine Sand, Frequently Flooded
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes
- 35: Pomello-Urban Land Complex, 0 To 5 Percent Slopes
- 44: Smyrna Fine Sand
- 45: Smyrna-Urban Land Complex
- 54: Zolfo Fine Sand
- 55: Zolfo-Urban Land Complex

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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PROJECT
OUC PERSHING TO STANTON 115kV
UPGRADE PROJECT

TITLE
SOILS MAP

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REVIEW	KAB	24 Jan. 2014			



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LEGEND

- Existing Transmission Structures
 - New Structures
 - Transmission Line
 - Project Area
 - Soils
- 27: Ona-Urban Land Complex
34: Pomello Fine Sand, 0 To 5 Percent Slopes
35: Pomello-Urban Land Complex, 0 To 5 Percent Slopes
44: Smyrna Fine Sand
45: Smyrna-Urban Land Complex
54: Zolfo Fine Sand
55: Zolfo-Urban Land Complex
- 3: Basinger Fine Sand, Depressional
15: Felda Fine Sand, Frequently Flooded
26: Ona Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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UPGRADE PROJECT

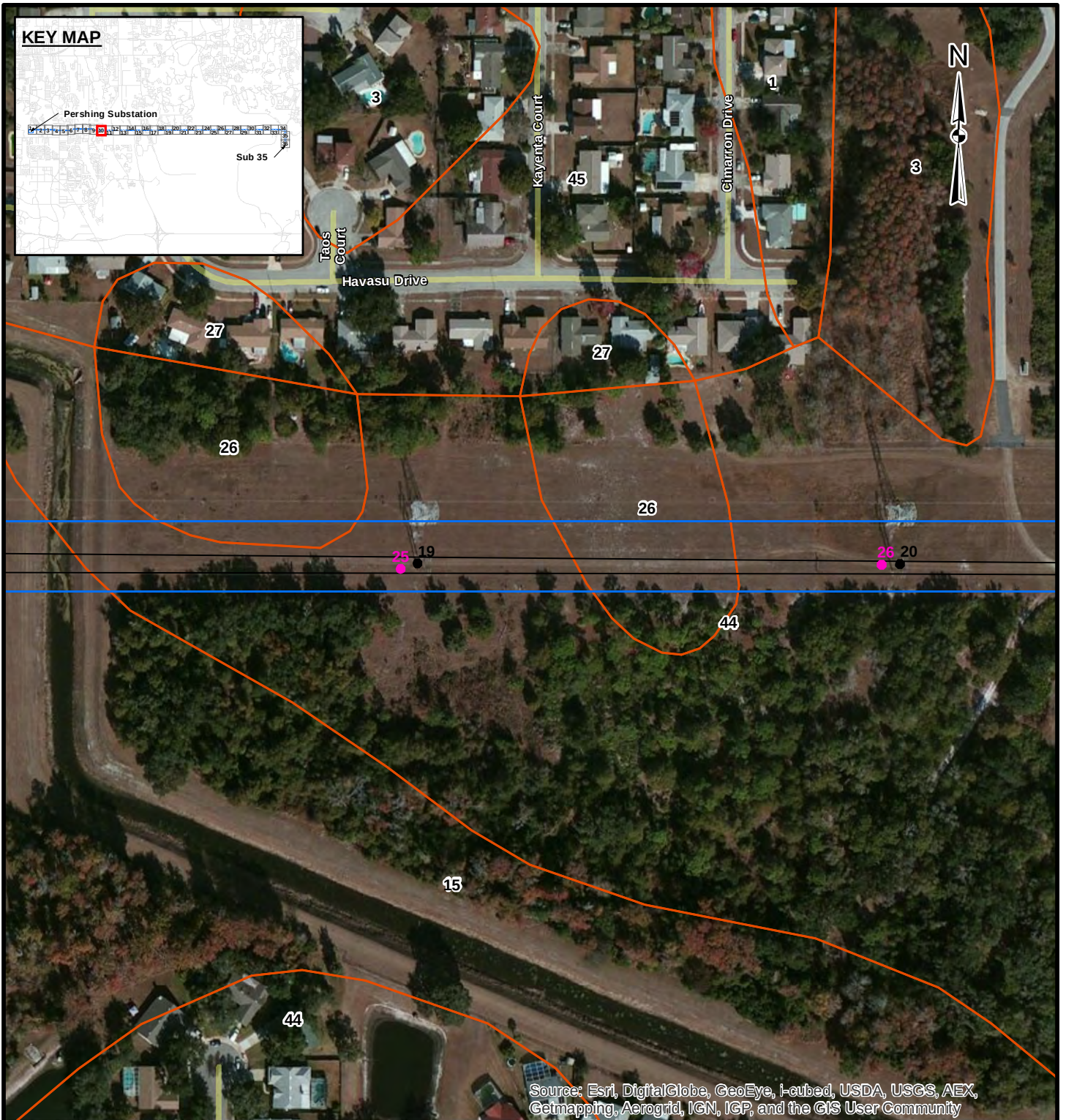
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FIGURE: 2
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 1: Arents, Nearly Level
- 3: Basinger Fine Sand, Depressional
- 15: Felda Fine Sand, Frequently Flooded
- 26: Ona Fine Sand
- 27: Ona-Urban Land Complex
- 44: Smyrna Fine Sand
- 45: Smyrna-Urban Land Complex

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

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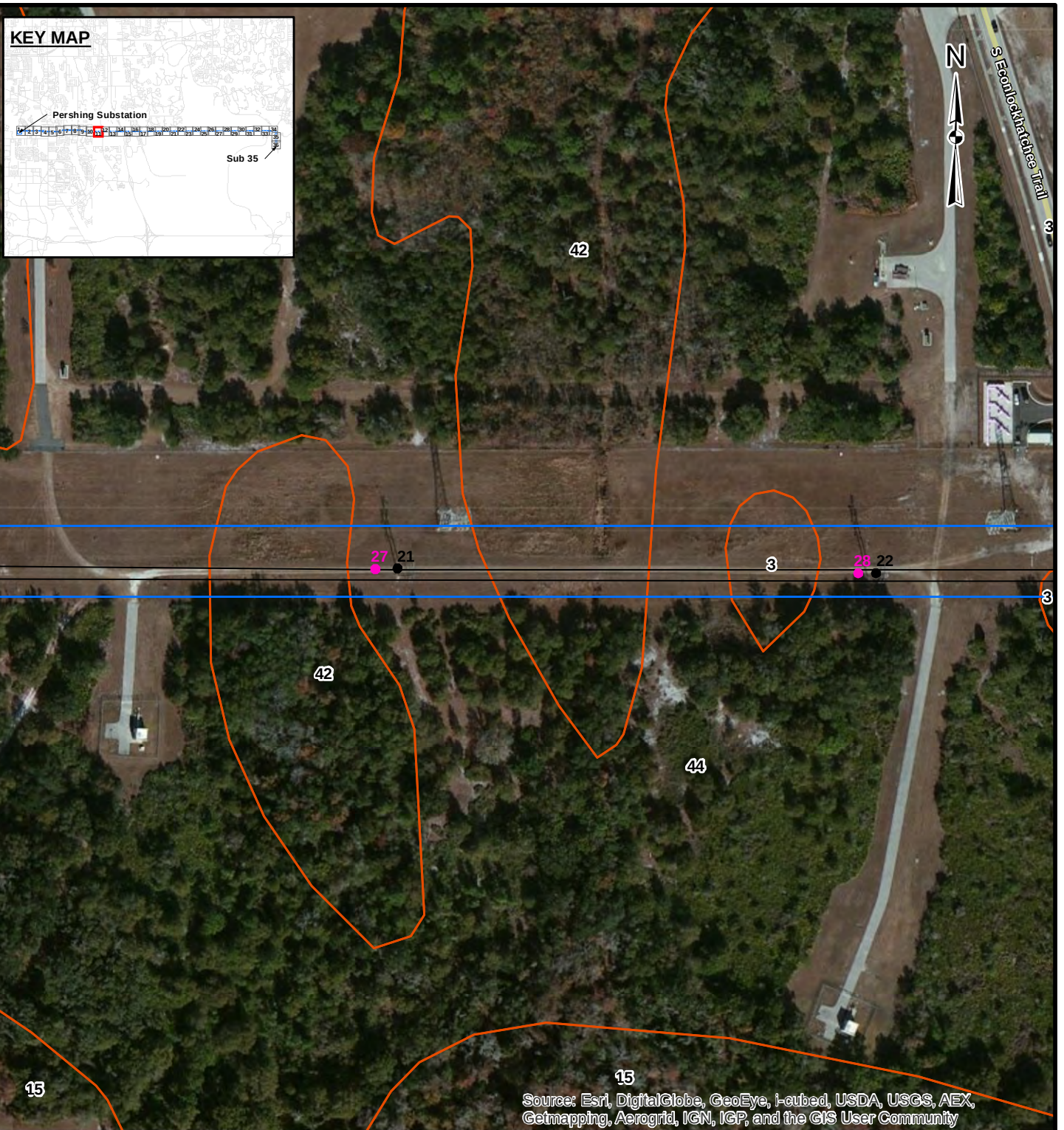
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FIGURE: 2
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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 15: Felda Fine Sand, Frequently Flooded
- 42: Sanibel Muck
- 44: Smyrna Fine Sand
- 3: Basinger Fine Sand, Depressional

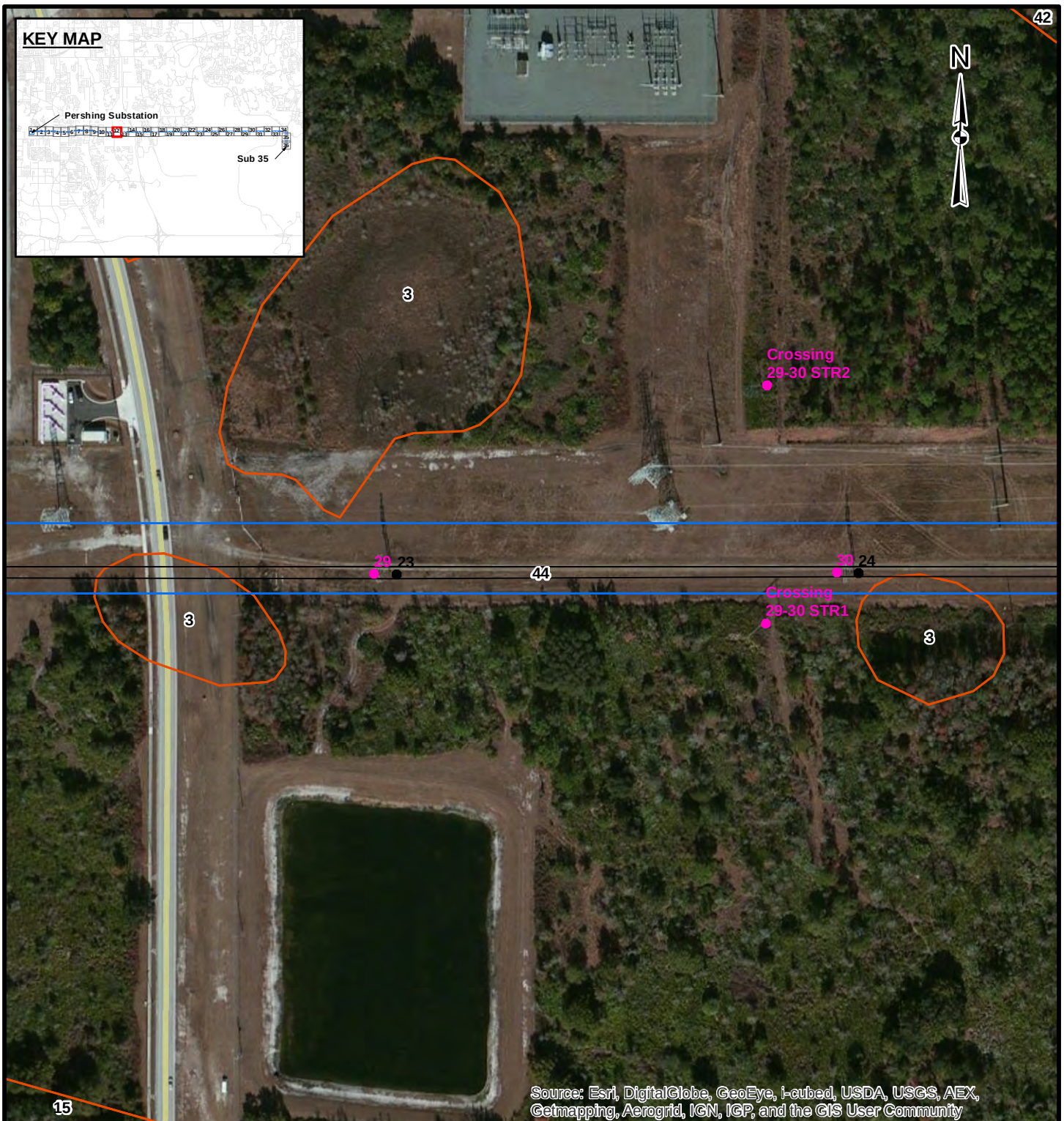
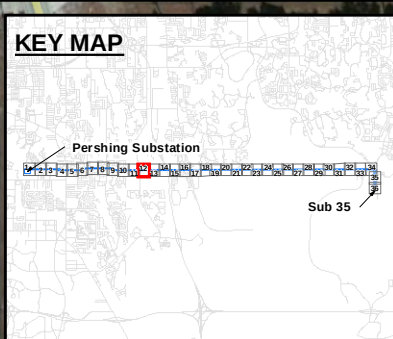
REFERENCES

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2. Soils, USDA/NRCS, 2012

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Projection: Transverse Mercator
Datum: North American 1983

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW	
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OUC PERSHING TO STANTON 115kV UPGRADE PROJECT							
TITLE							
SOILS MAP							
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REVIEW			KAB	24 Jan. 2014			

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 15: Felda Fine Sand, Frequently Flooded
- 42: Sanibel Muck
- 44: Smyrna Fine Sand
- 3: Basinger Fine Sand, Depressional

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
 2. Soils, USDA/NRCS, 2012
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

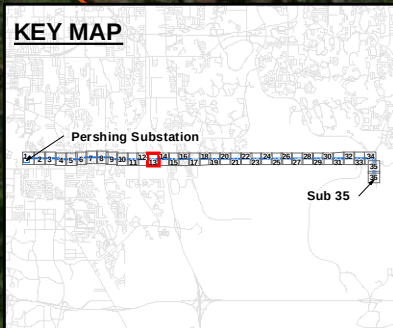


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			REVIEW		KAB	24 Jan. 2014						



FIGURE: 2
Page 12 of 36

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

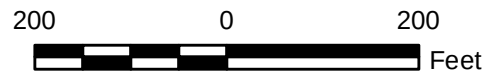
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 15: Felda Fine Sand, Frequently Flooded
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes
- 42: Sanibel Muck
- 44: Smyrna Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

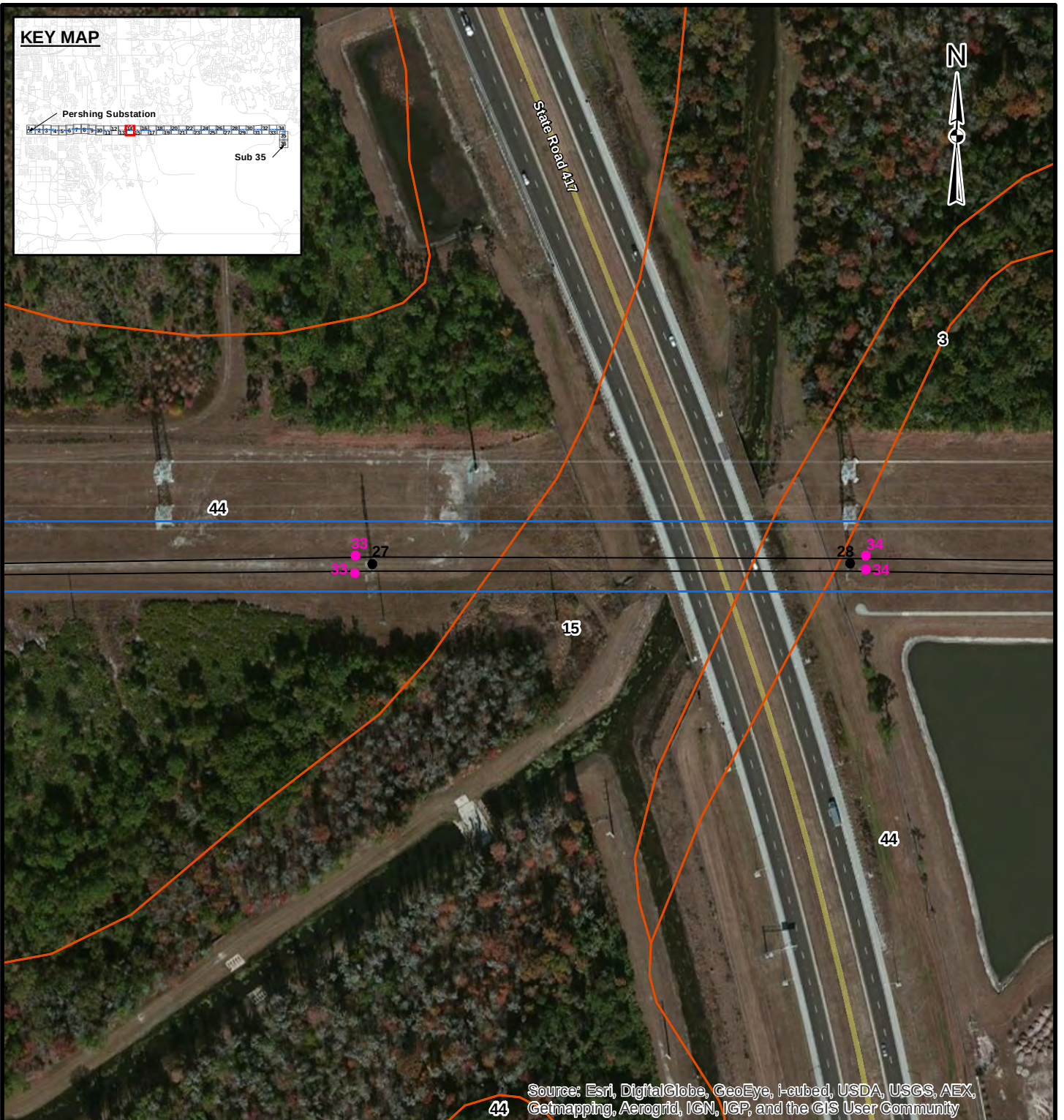
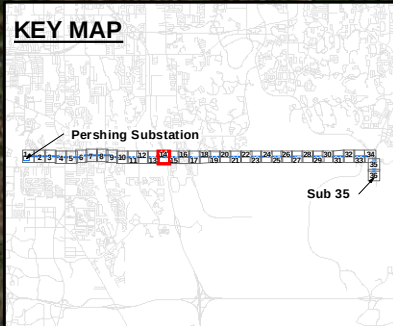


											
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FIGURE: 2
Page 13 of 36

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ Project Area
- ▭ Soils
- 3: Basinger Fine Sand, Depressional
- 15: Felda Fine Sand, Frequently Flooded
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes
- 44: Smyrna Fine Sand

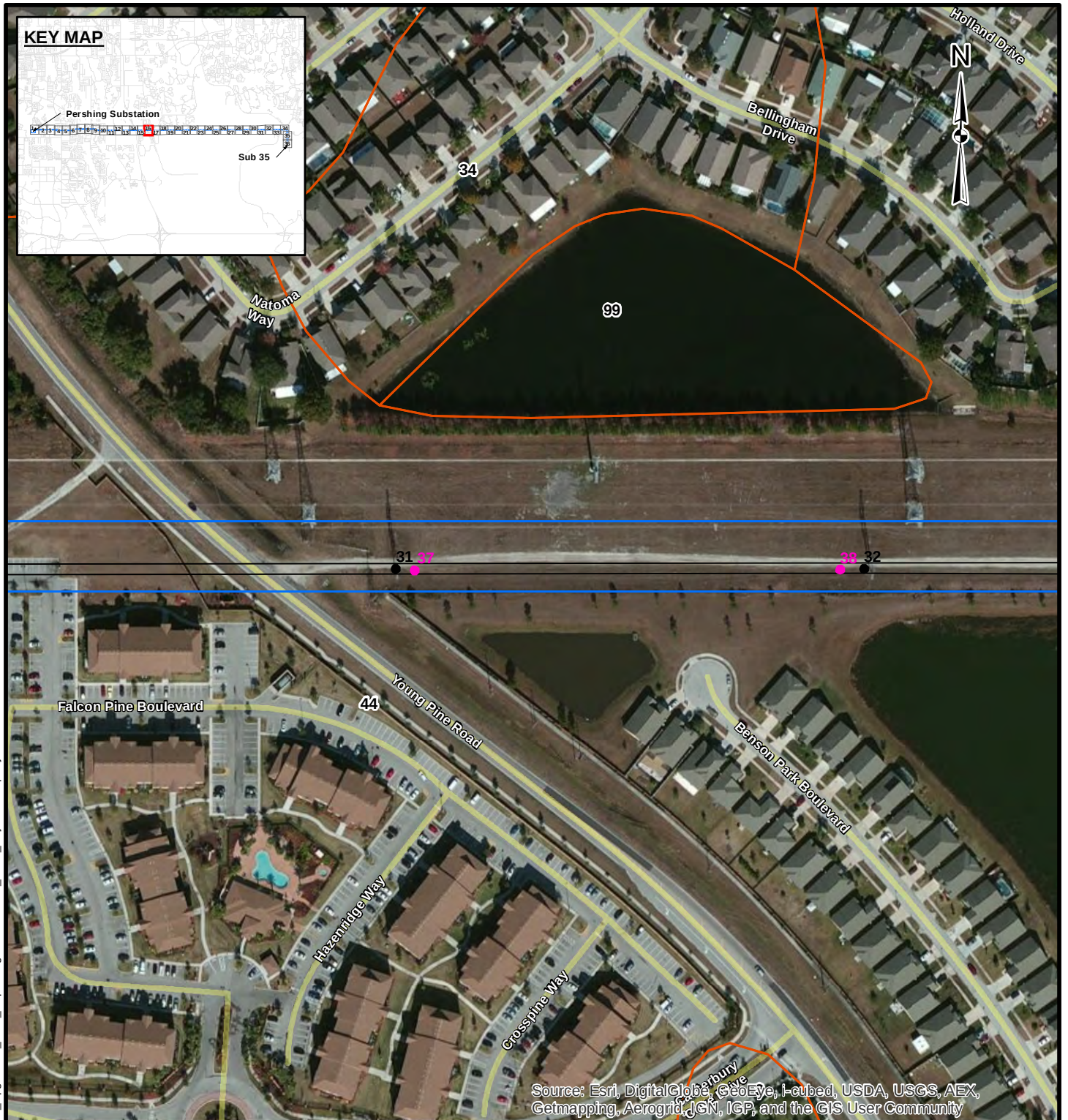
REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

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Datum: North American 1983

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REVIEW			KAB			24 Jan. 2014								
						FIGURE: 2 Page 14 of 36								

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 26: Ona Fine Sand
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes
- 44: Smyrna Fine Sand
- 99: Water

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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CHECK	KAB	24 Jan. 2014				
REVIEW	KAB	24 Jan. 2014				

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FIGURE: 2
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

● Existing Transmission Structures
● New Structures
— Transmission Line
□ Project Area
□ Soils

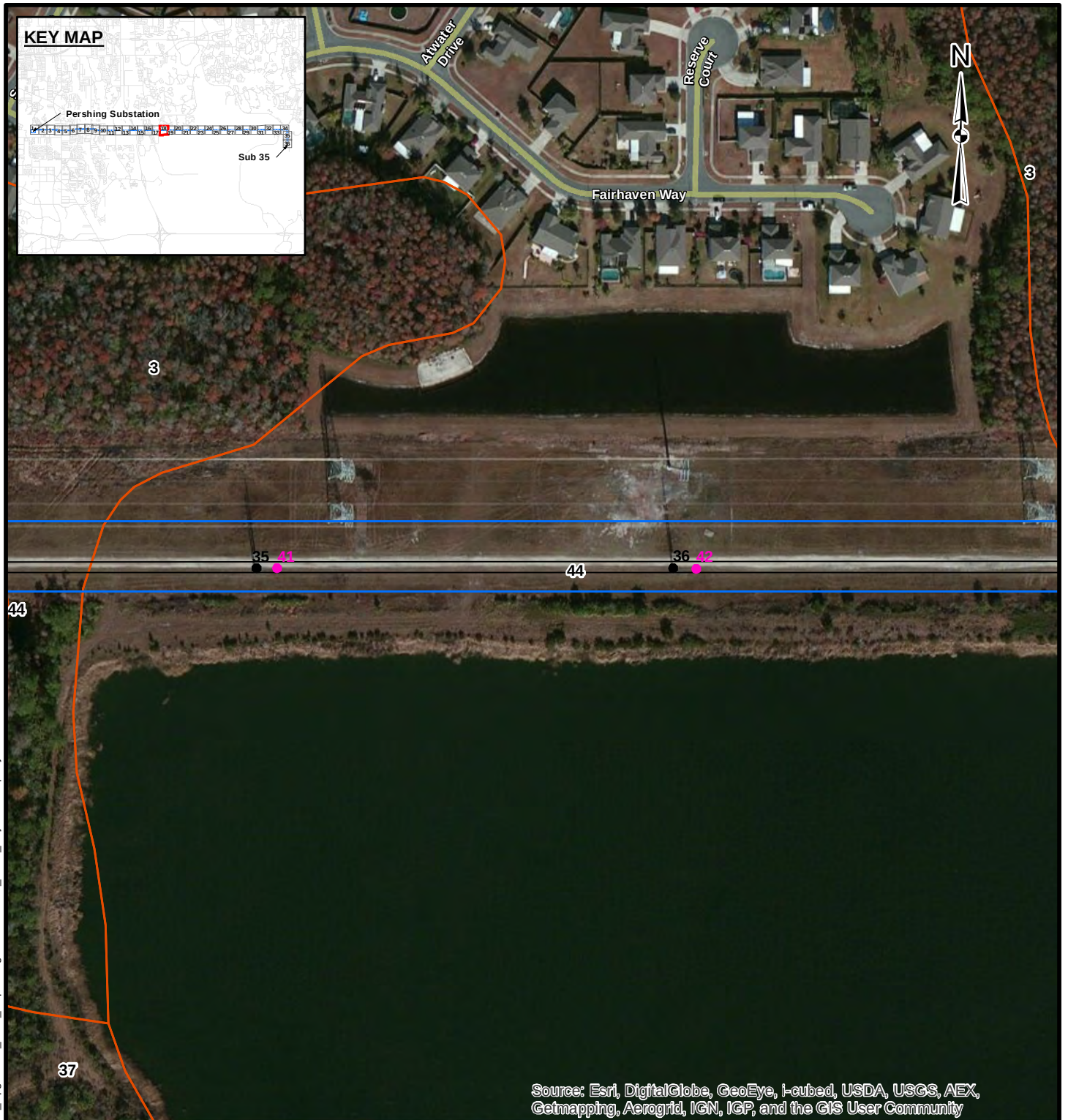
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1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

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Projection: Transverse Mercator
Datum: North American 1983

												
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TITLE												
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 37: St. Johns Fine Sand
- 44: Smyrna Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
 2. Soils, USDA/NRCS, 2012
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
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Datum: North American 1983

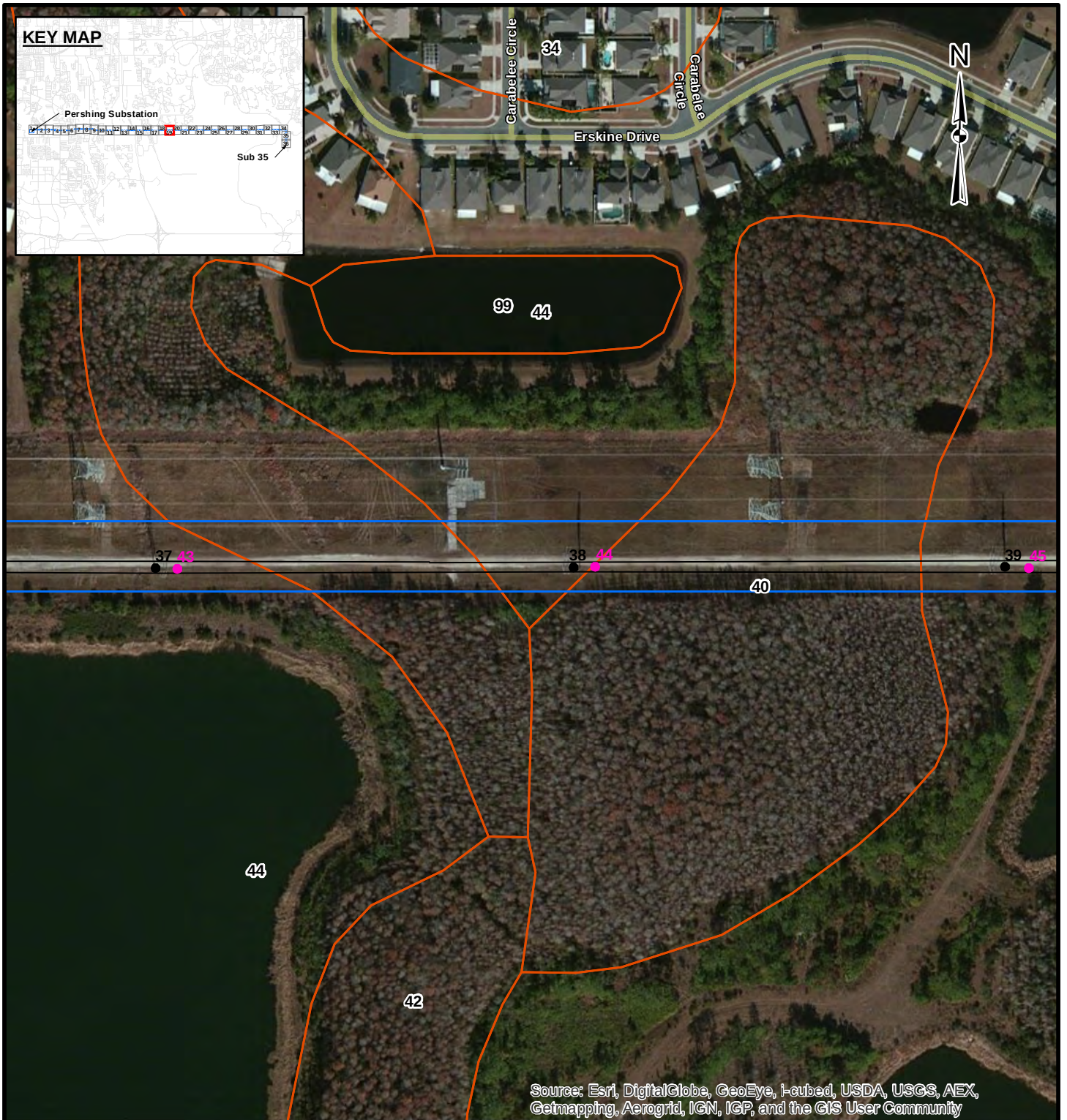
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DESIGN KAB 11 Dec. 2013			SCALE: AS SHOWN REV: 0			
GIS NRL 2 Jan. 2014						
CHECK KAB 24 Jan. 2014						
REVIEW KAB 24 Jan. 2014						

 **Golder Associates**

FIGURE: 2
Page 18 of 36

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional

- 34: Pomello Fine Sand, 0 To 5 Percent Slopes
- 40: Samsula Muck
- 42: Sanibel Muck
- 44: Smyrna Fine Sand
- 99: Water

200 0 200
Feet

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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CHECK	KAB	24 Jan. 2014				
REVIEW	KAB	24 Jan. 2014				

 **Golder Associates**

FIGURE: 2
Page 19 of 36

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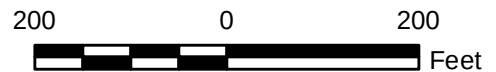
- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 37: St. Johns Fine Sand
- 40: Samsula Muck
- 42: Sanibel Muck
- 44: Smyrna Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

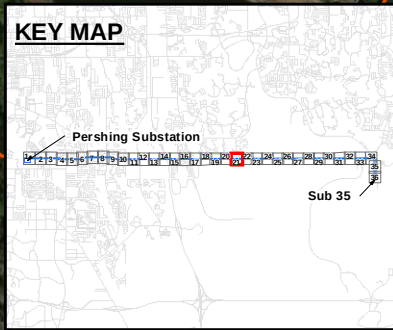
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Projection: Transverse Mercator
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

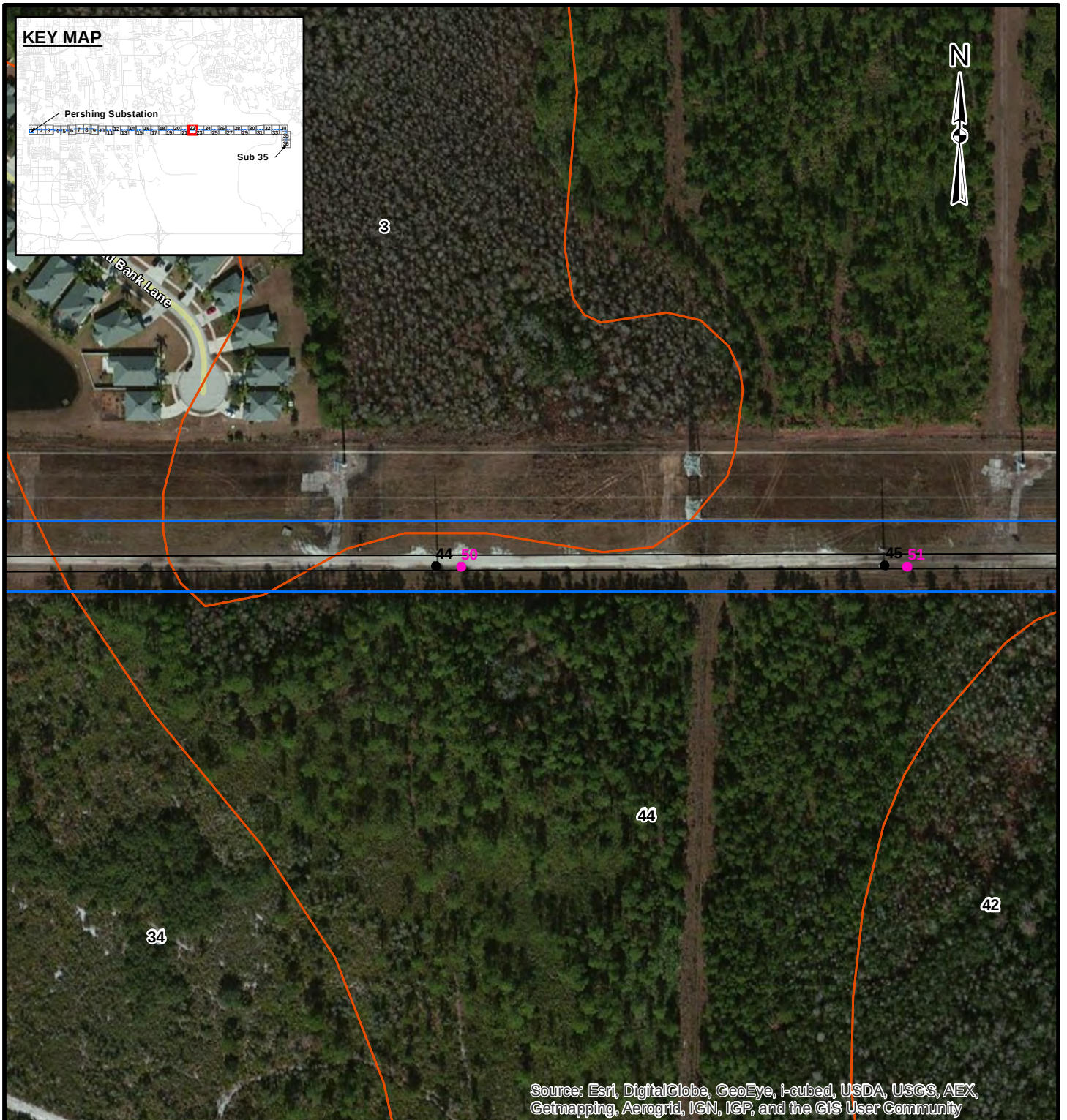


											
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TITLE											
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

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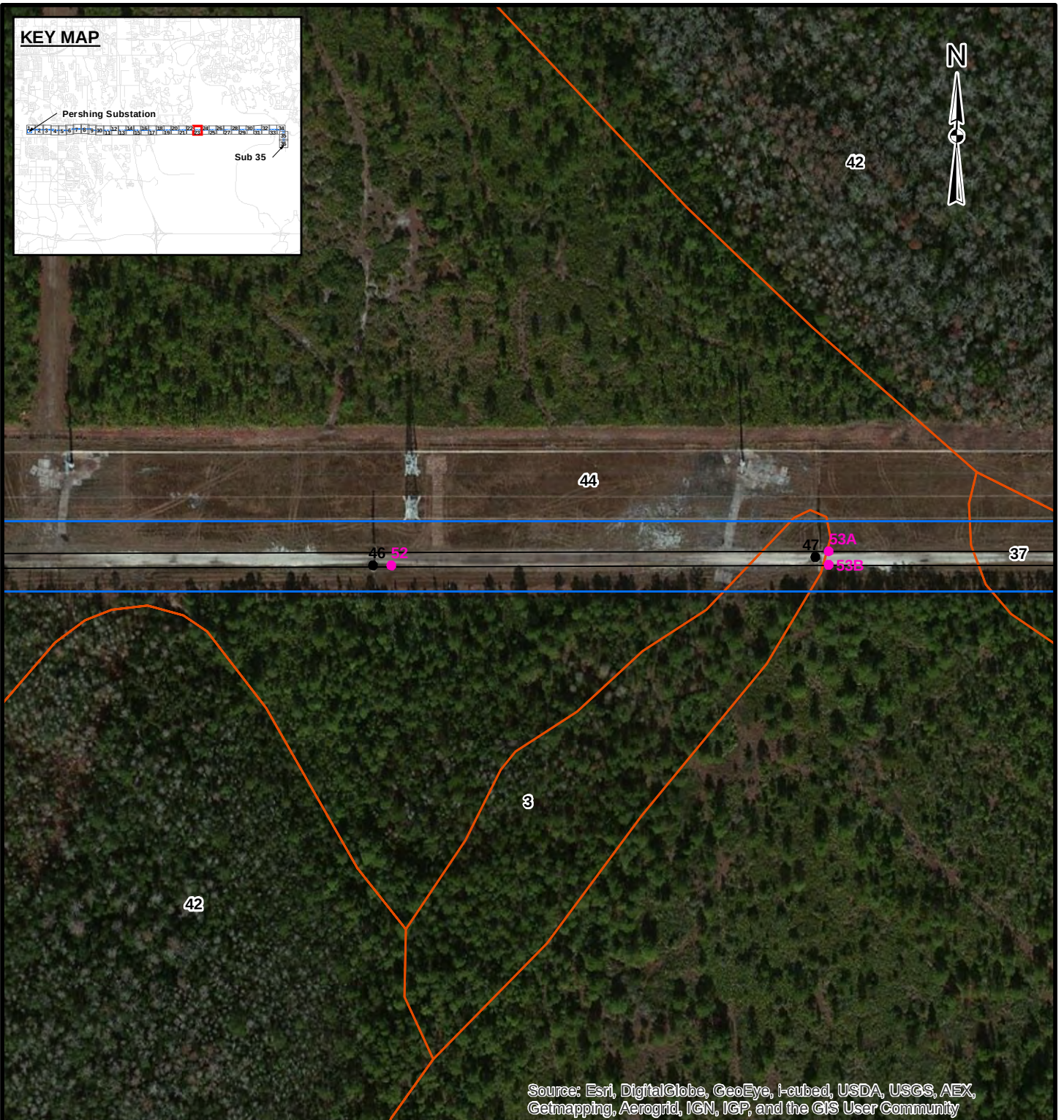
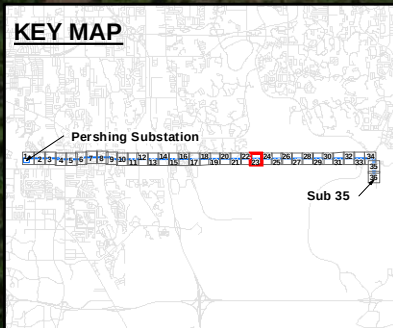
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- New Structures
- Transmission Line
- ▭ Project Area
- ▭ Soils
- 3: Basinger Fine Sand, Depressional
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes
- 42: Sanibel Muck
- 44: Smyrna Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
 2. Soils, USDA/NRCS, 2012
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

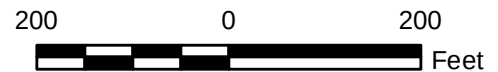
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- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 37: St. Johns Fine Sand
- 42: Sanibel Muck
- 44: Smyrna Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983



												
REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW		
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TITLE												
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

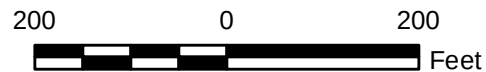
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 42: Sanibel Muck
- 44: Smyrna Fine Sand
- 37: St. Johns Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

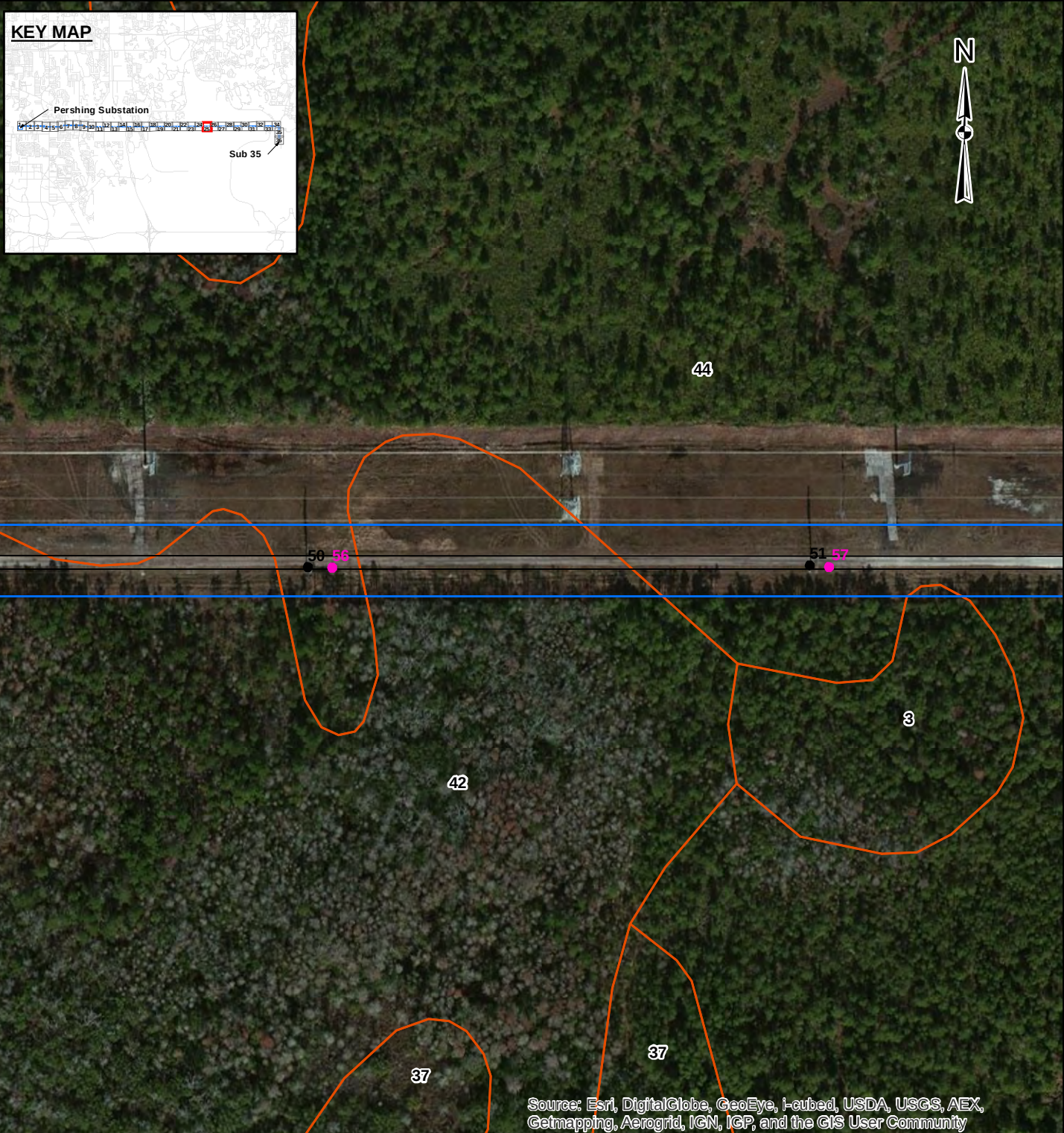
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Datum: North American 1983



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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

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|-------------------------------------|-------------------------|
| ● Existing Transmission Structures | 37: St. Johns Fine Sand |
| ● New Structures | 42: Sanibel Muck |
| — Transmission Line | 44: Smyrna Fine Sand |
| ▭ Project Area | |
| ▭ Soils | |
| 3: Basinger Fine Sand, Depressional | |

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
 2. Soils, USDA/NRCS, 2012
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

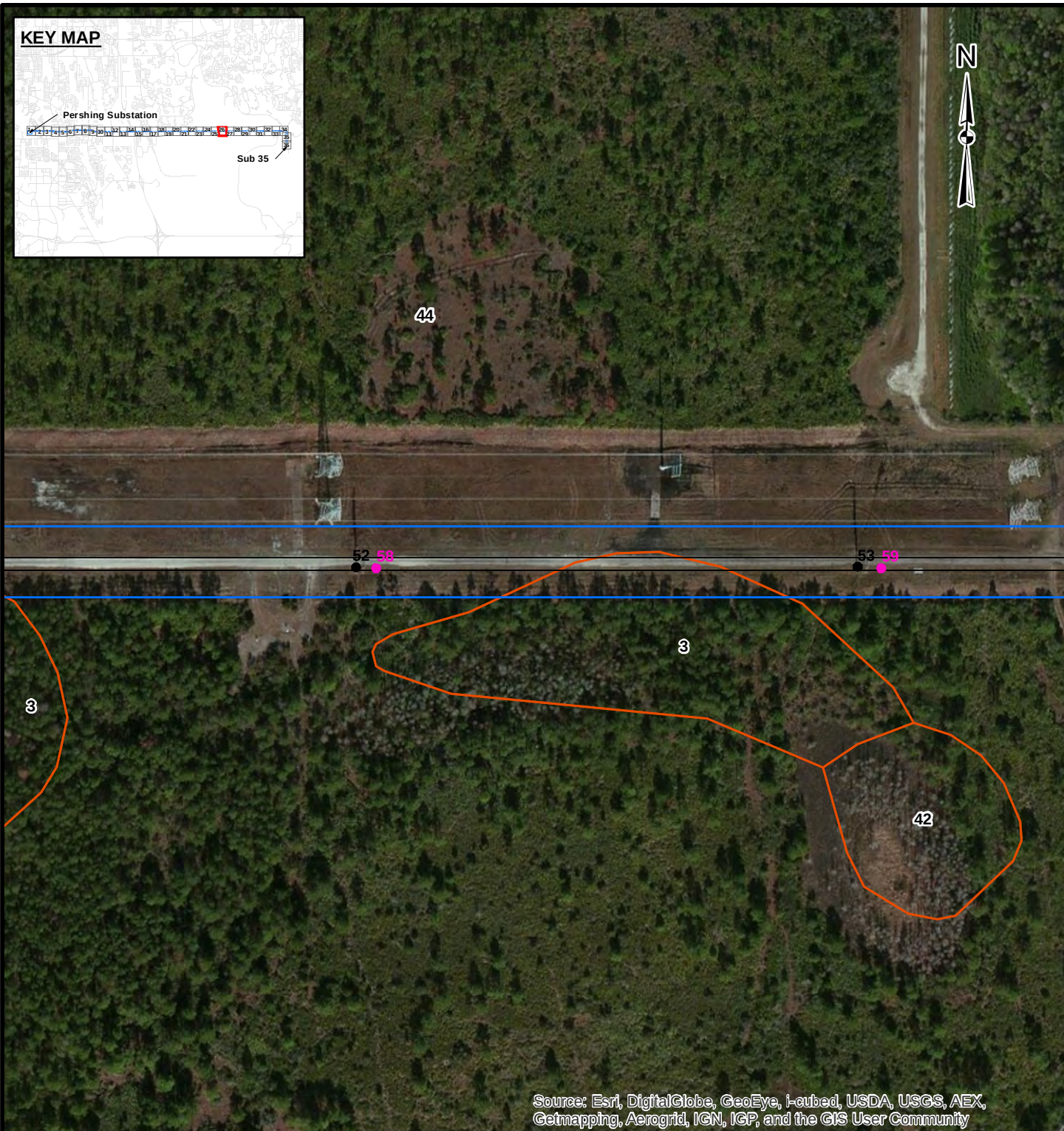
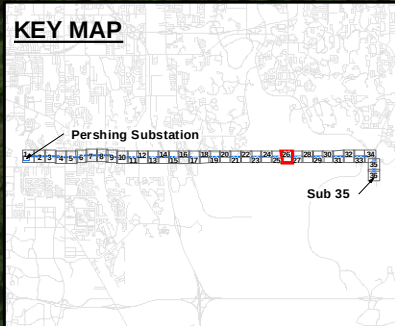


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FIGURE: 2	
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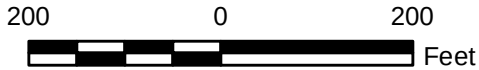
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 42: Sanibel Muck
- 44: Smyrna Fine Sand

REFERENCES

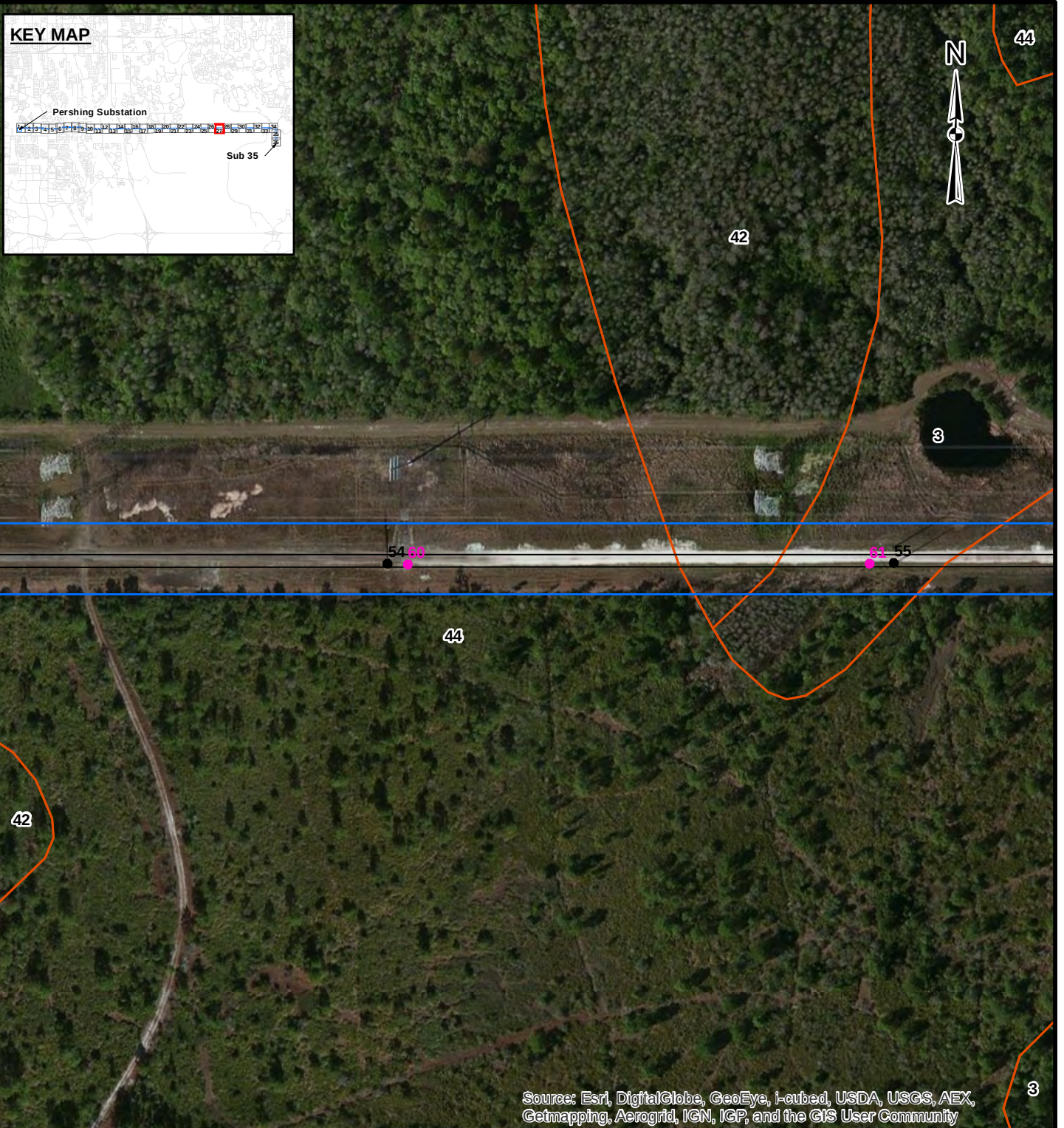
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 42: Sanibel Muck
- 44: Smyrna Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
 2. Soils, USDA/NRCS, 2012
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
 - 3: Basinger Fine Sand, Depressional
 - 34: Pomello Fine Sand, 0 To 5 Percent Slopes
 - 42: Sanibel Muck
 - 44: Smyrna Fine Sand

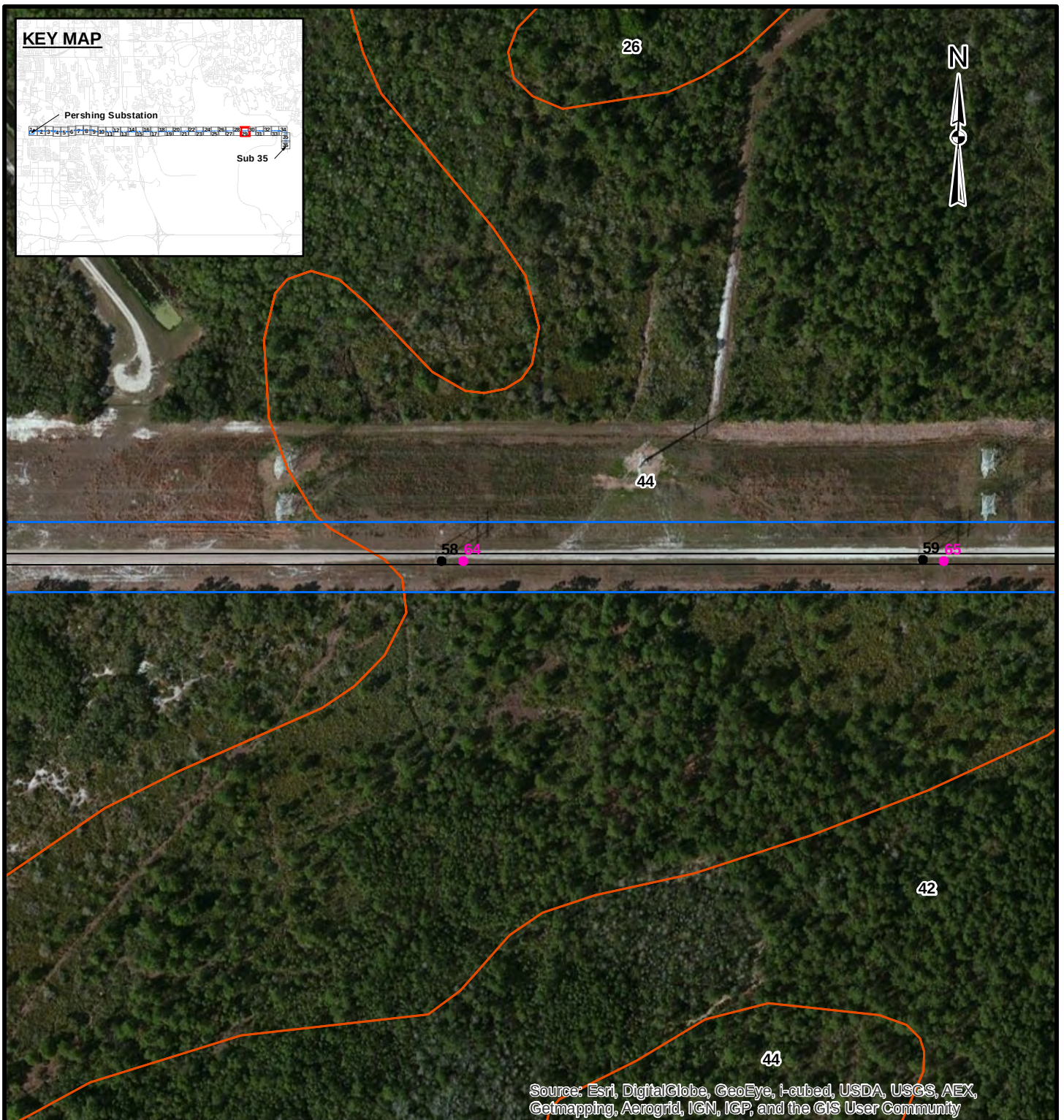
REFERENCES

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2. Soils, USDA/NRCS, 2012

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 26: Ona Fine Sand
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes
- 42: Sanibel Muck
- 44: Smyrna Fine Sand

REFERENCES

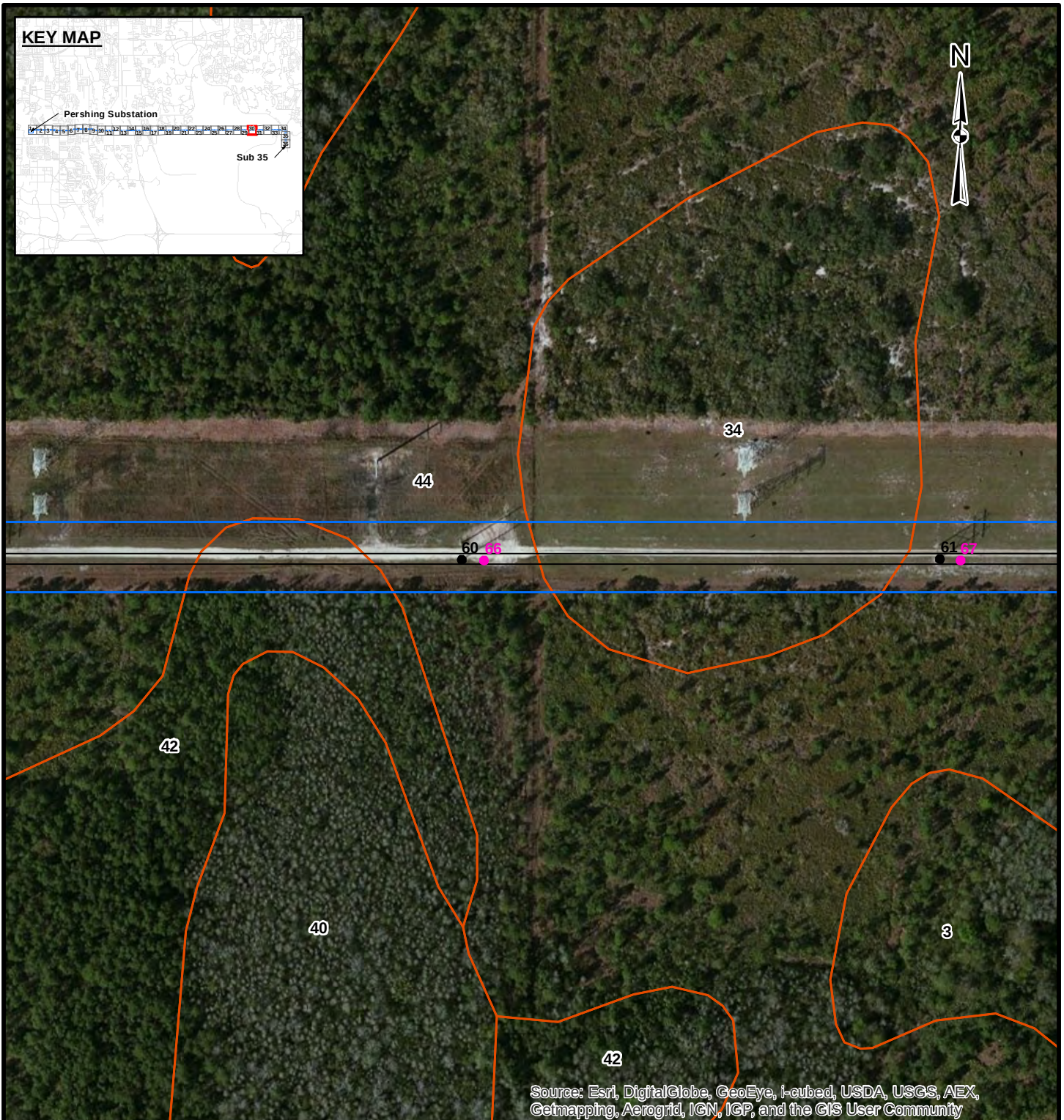
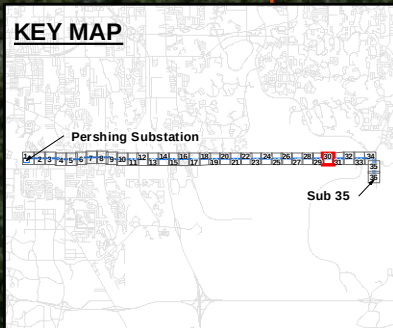
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2. Soils, USDA/NRCS, 2012

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Datum: North American 1983

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes
- 40: Samsula Muck
- 42: Sanibel Muck
- 44: Smyrna Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
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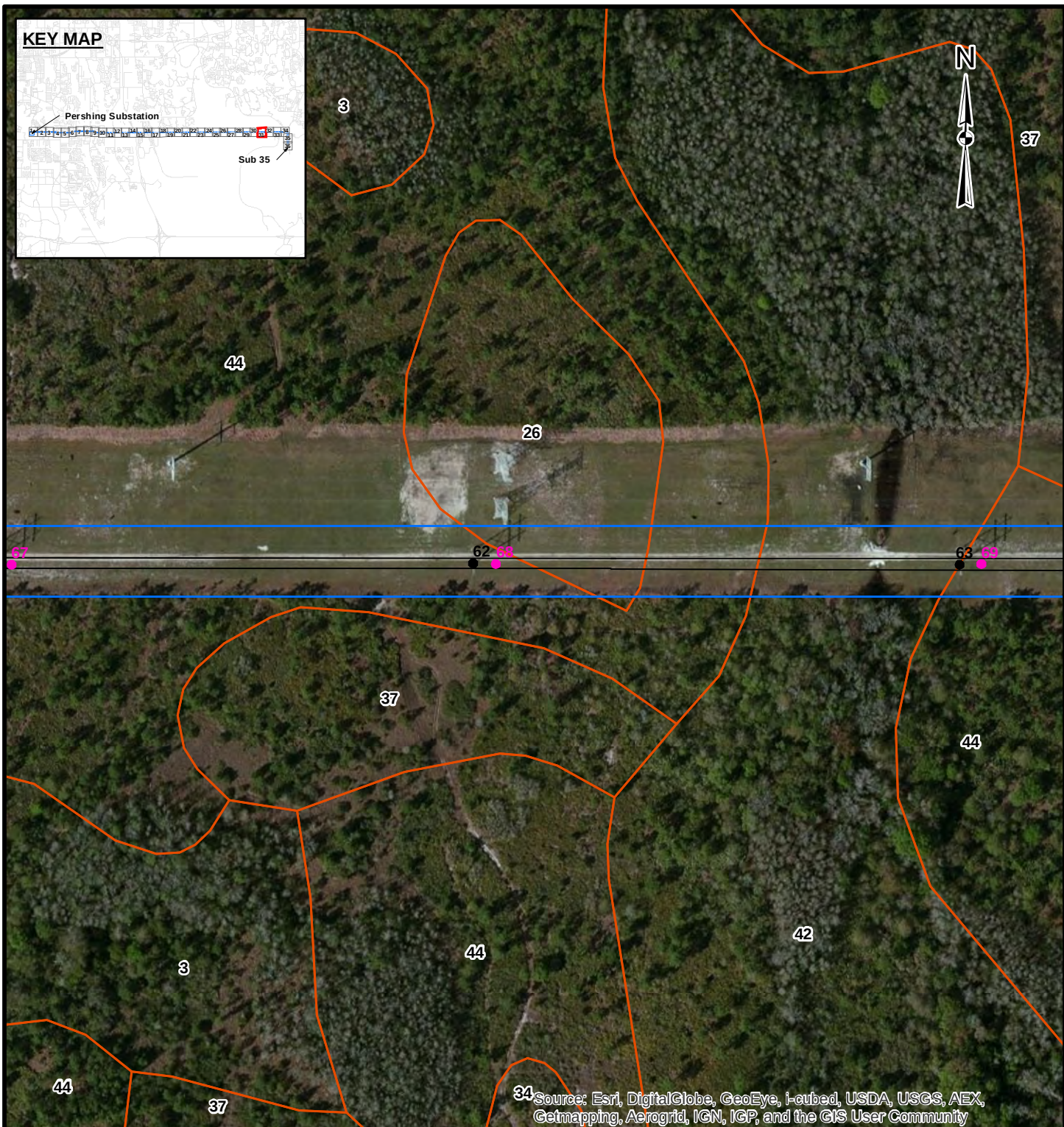


												
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TITLE												
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FIGURE: 2 Page 30 of 36												



FIGURE: 2
Page 30 of 36

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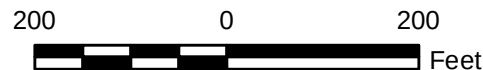
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 3: Basinger Fine Sand, Depressional
- 26: Ona Fine Sand
- 34: Pomello Fine Sand, 0 To 5 Percent Slopes
- 37: St. Johns Fine Sand
- 42: Sanibel Muck
- 44: Smyrna Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
 2. Soils, USDA/NRCS, 2012
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983



												
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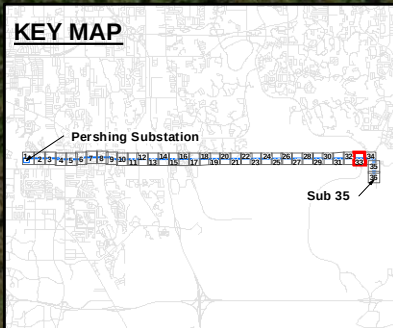


FIGURE: 2
Page 31 of 36



FIGURE: 2
Page 32 of 36

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 37: St. Johns Fine Sand
- 44: Smyrna Fine Sand
- 51: Wabasso Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

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Projection: Transverse Mercator
Datum: North American 1983

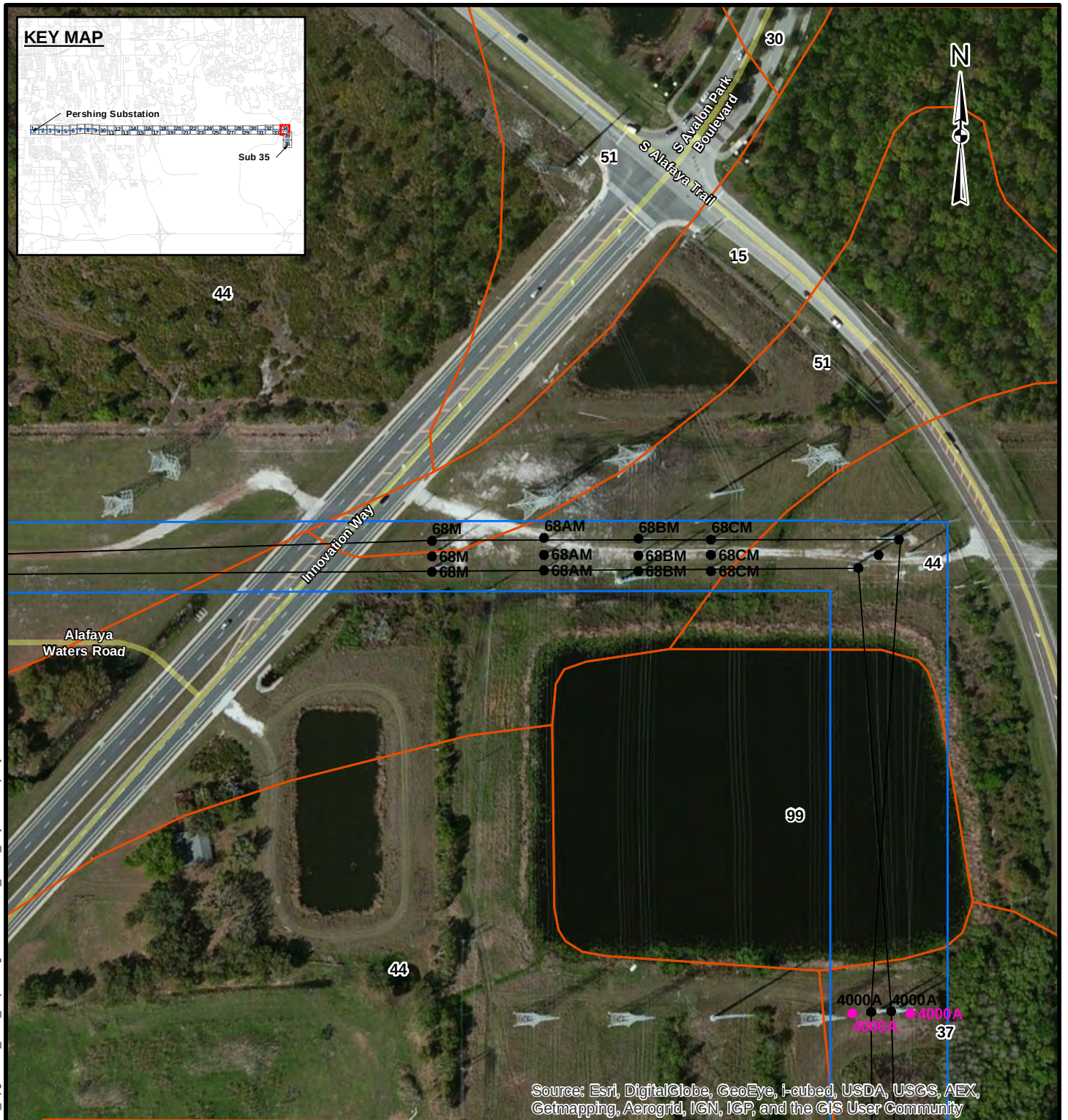


												
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TITLE												
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			REVIEW	KAB	24 Jan. 2014							



FIGURE: 2
Page 33 of 36

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 15: Felda Fine Sand, Frequently Flooded
- 30: Pineda Fine Sand
- 37: St. Johns Fine Sand
- 44: Smyrna Fine Sand
- 51: Wabasso Fine Sand
- 99: Water

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

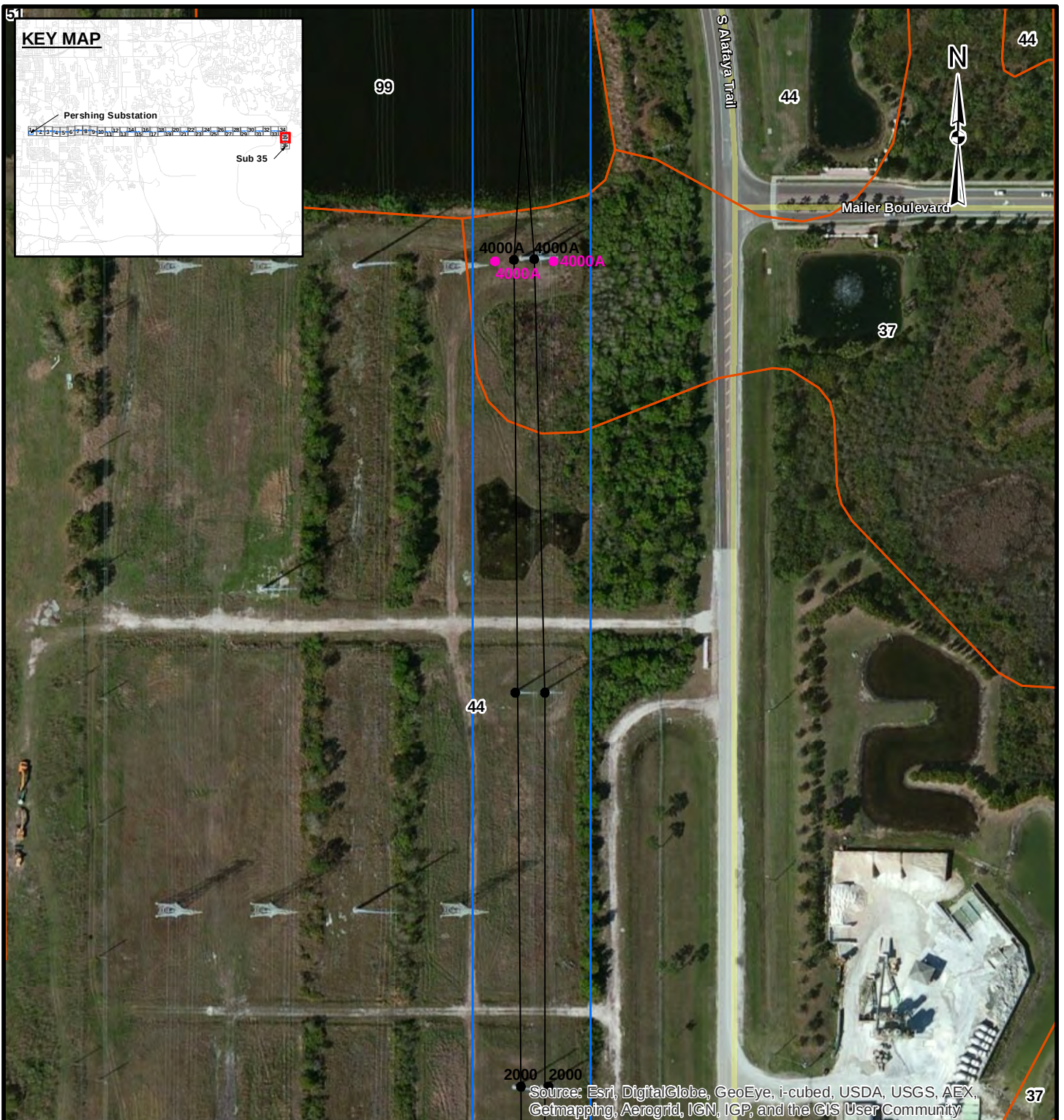
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Datum: North American 1983

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TITLE													
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Soils
- 44: Smyrna Fine Sand
- 51: Wabasso Fine Sand
- 99: Water
- 37: St. Johns Fine Sand

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Soils, USDA/NRCS, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

200 0 200
Feet

												
REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW		
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TITLE												
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FIGURE: 2
Page 35 of 36

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ Project Area
- ▭ Soils
- 3: Basinger Fine Sand, Depressional

- 37: St. Johns Fine Sand
- 44: Smyrna Fine Sand

200 0 200 Feet

REFERENCES

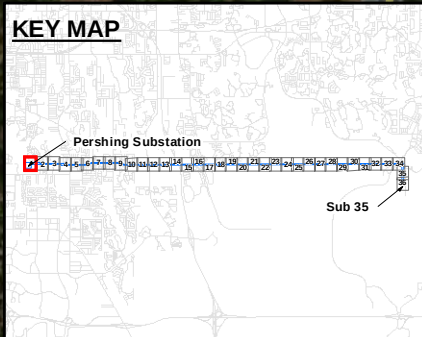
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2. Soils, USDA/NRCS, 2012

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FIGURE: 2
Page 36 of 36





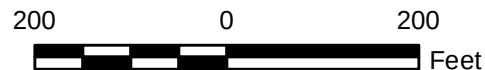
LEGEND

- Existing Transmission Structures
 ● New Structures
 — Transmission Line
 □ ProjectArea

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983



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Pershing Substation

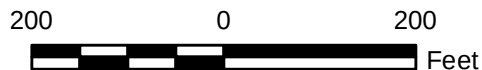
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- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea

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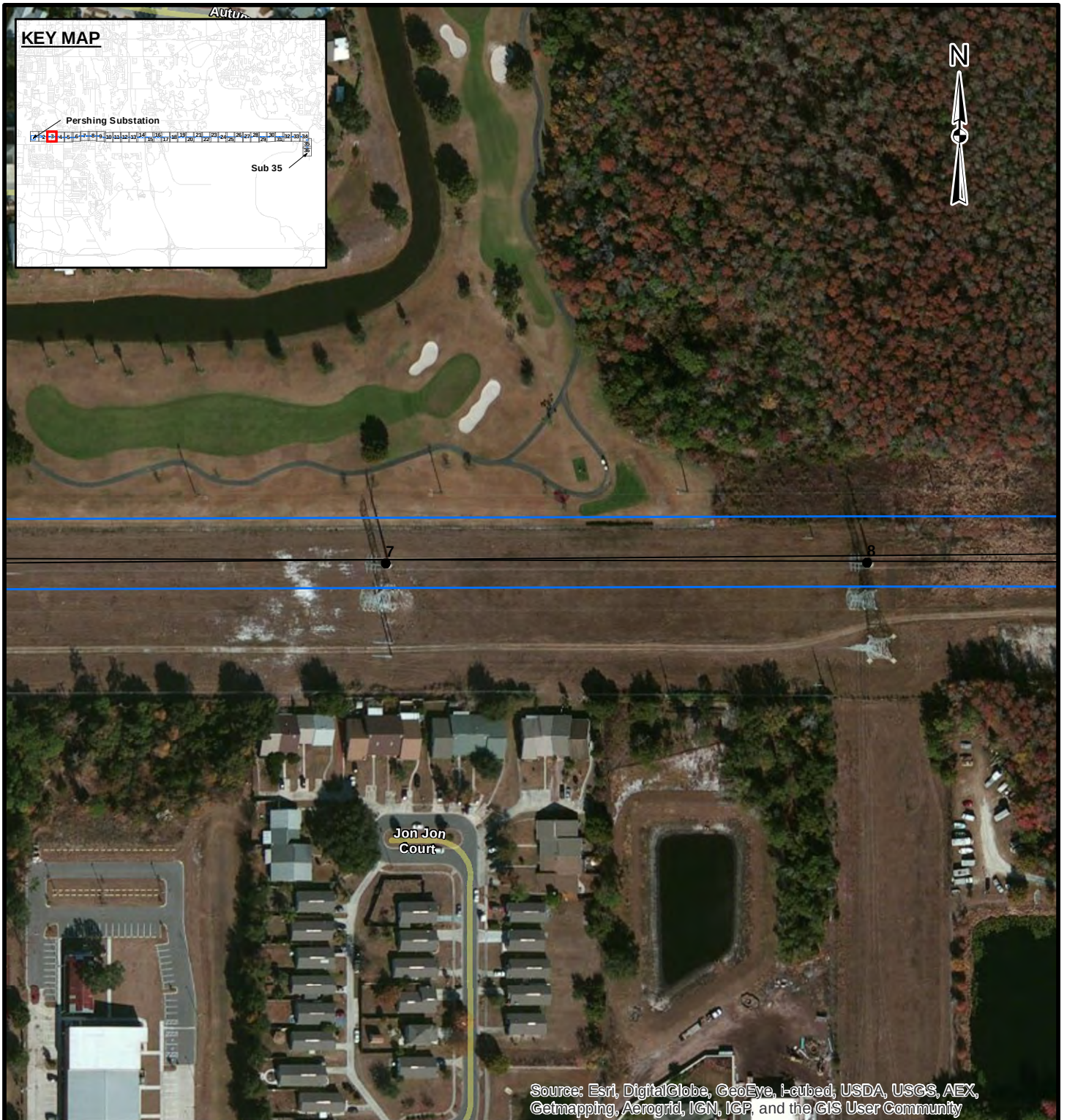
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community



														
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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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GIS			1301332_B005			
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FIGURE: 3
Page 3 of 36

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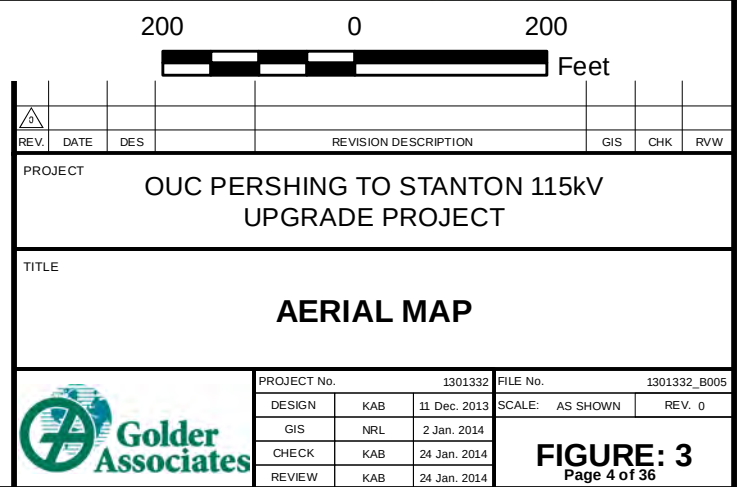
- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community



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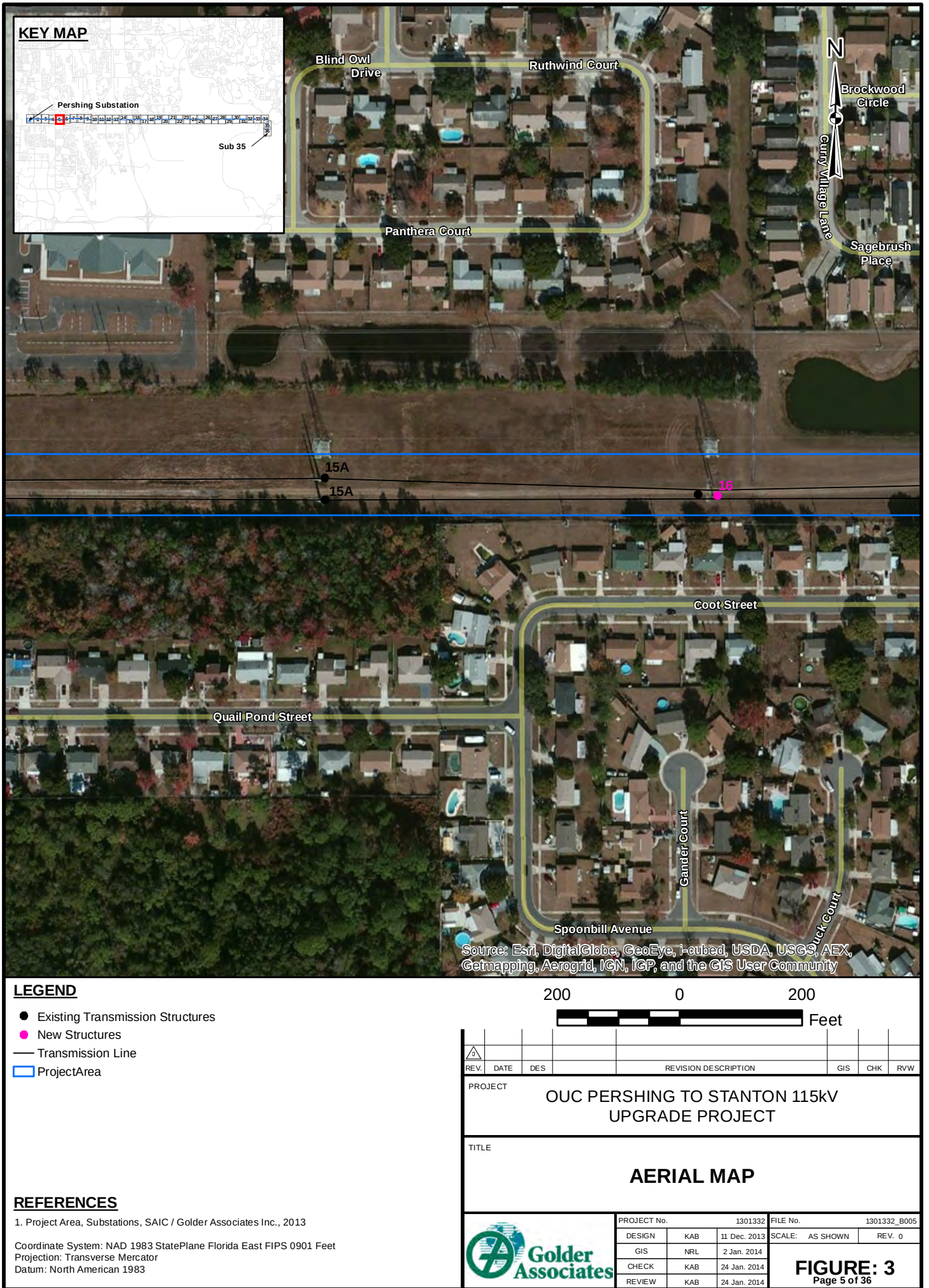
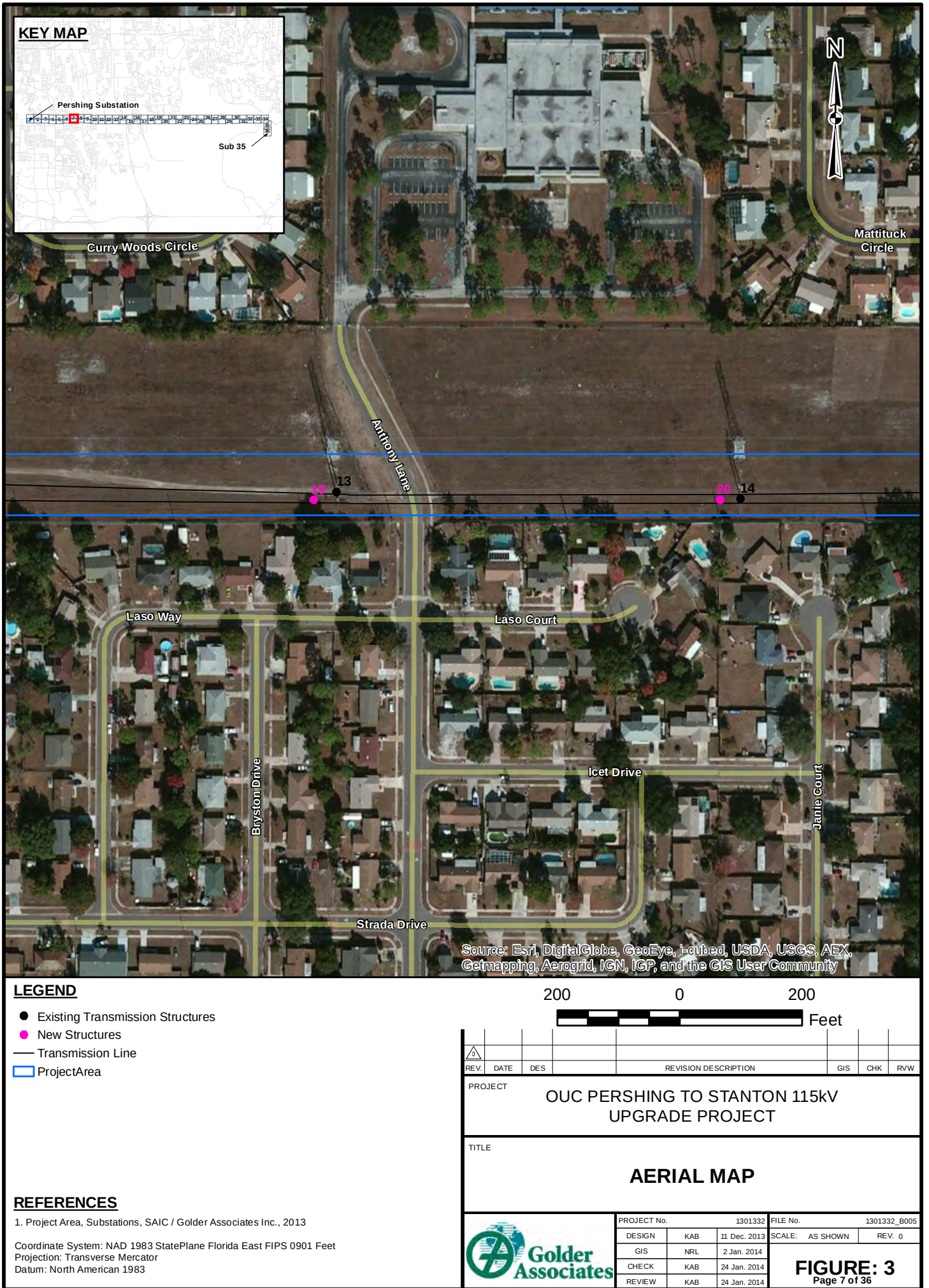




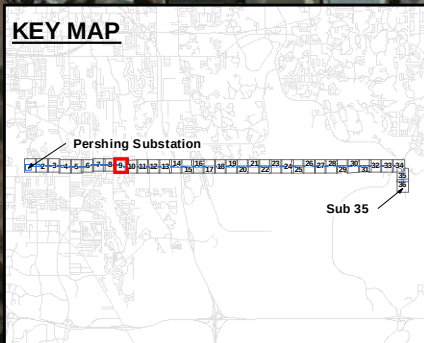
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Page 6 of 36

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

200 0 200
Feet

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TITLE						
AERIAL MAP						
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

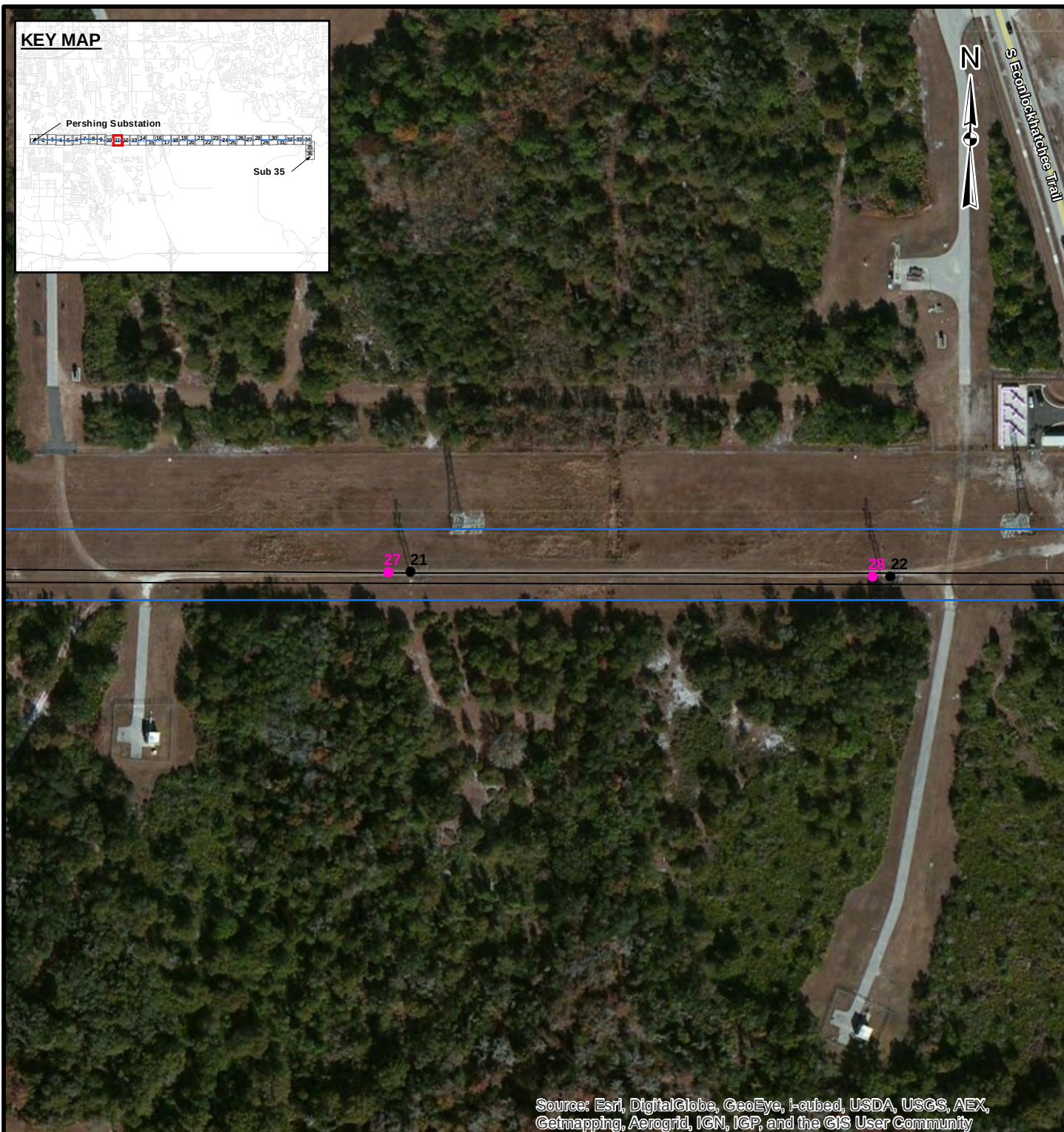
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Projection: Transverse Mercator
Datum: North American 1983

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TITLE				AERIAL MAP			
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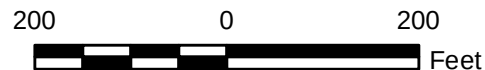


Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

● Existing Transmission Structures
 ● New Structures
 — Transmission Line
 □ ProjectArea

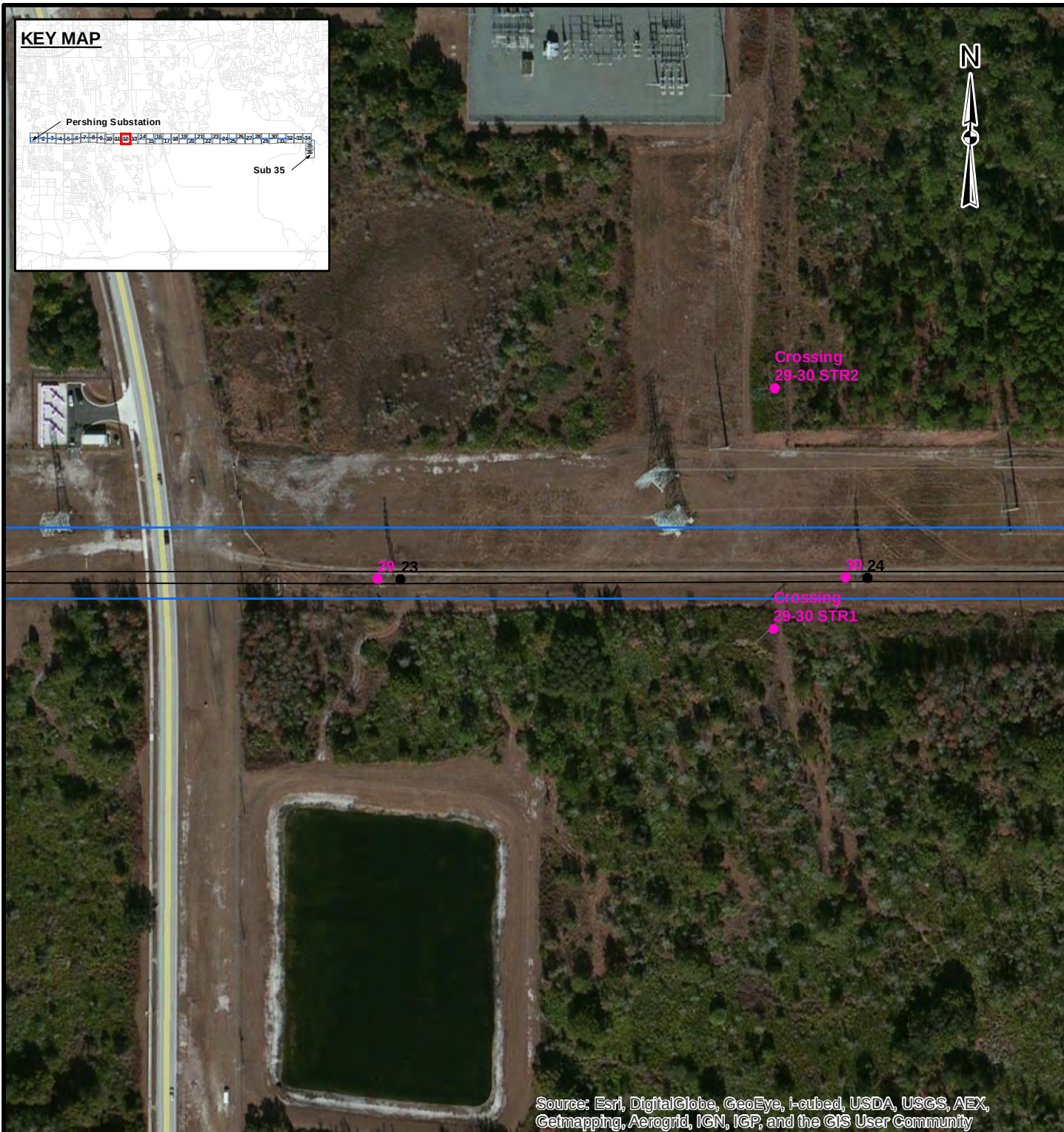
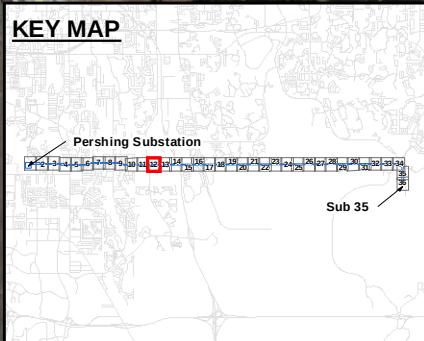
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

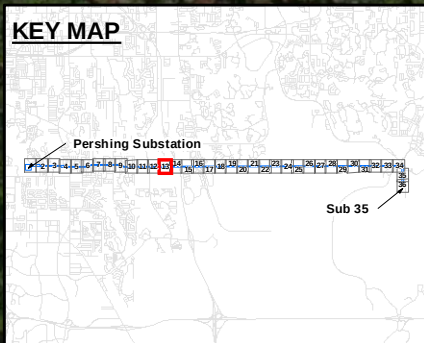
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

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200 0 200

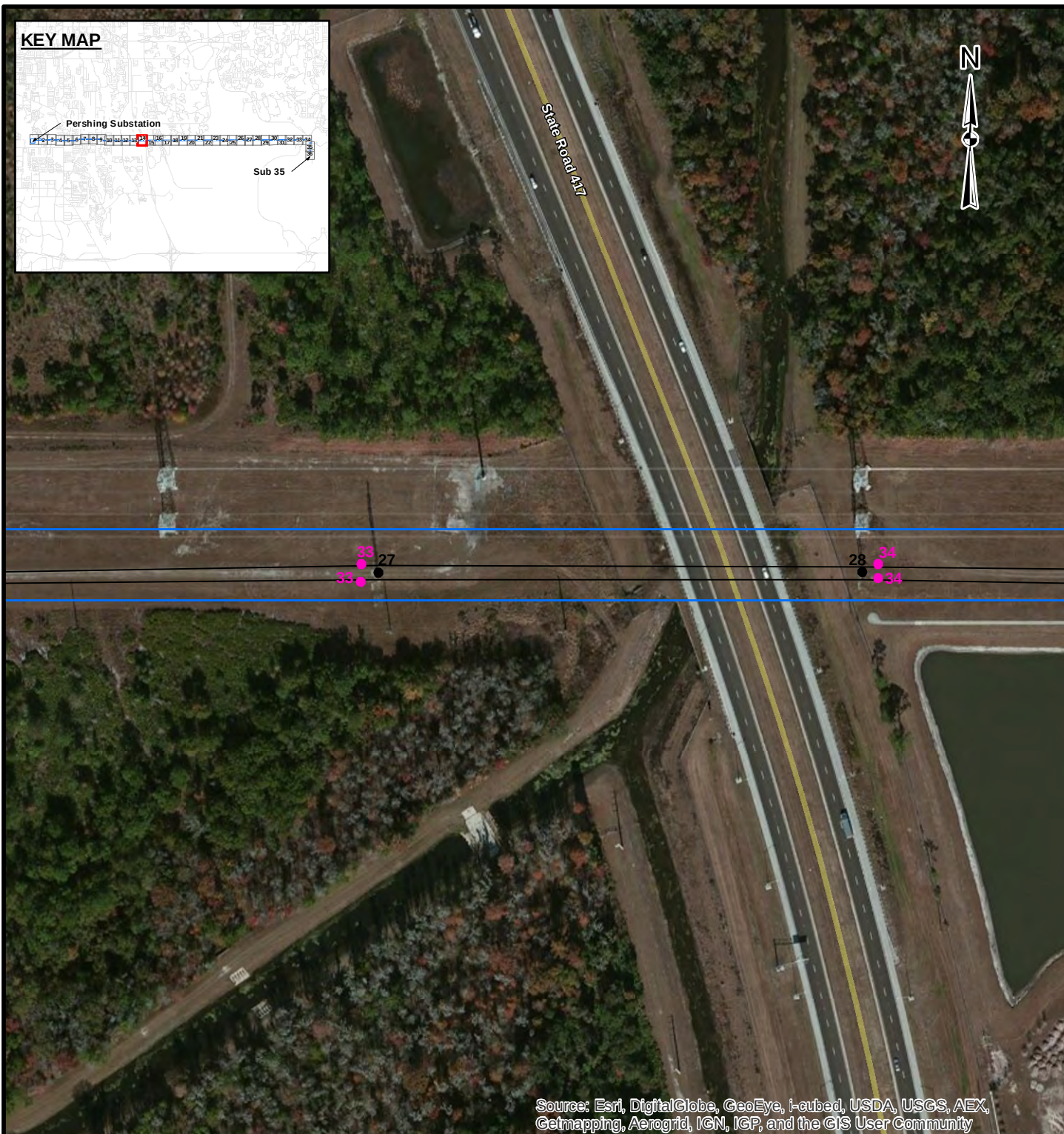
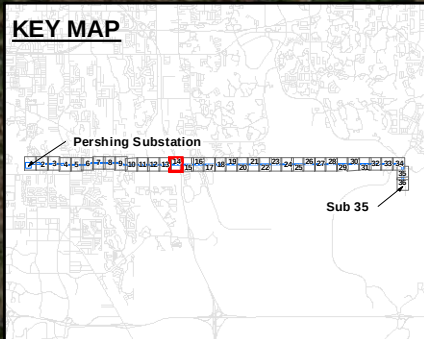
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FIGURE: 3
Page 13 of 36

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983



											
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

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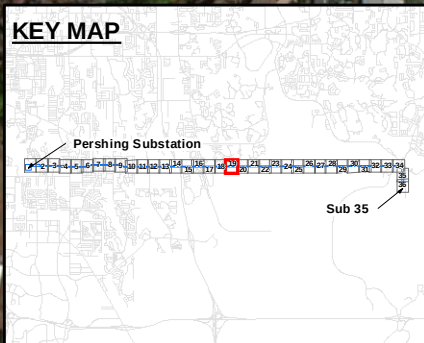
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FIGURE: 3
Page 18 of 36

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

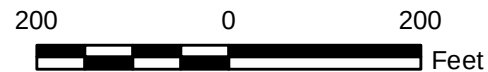
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

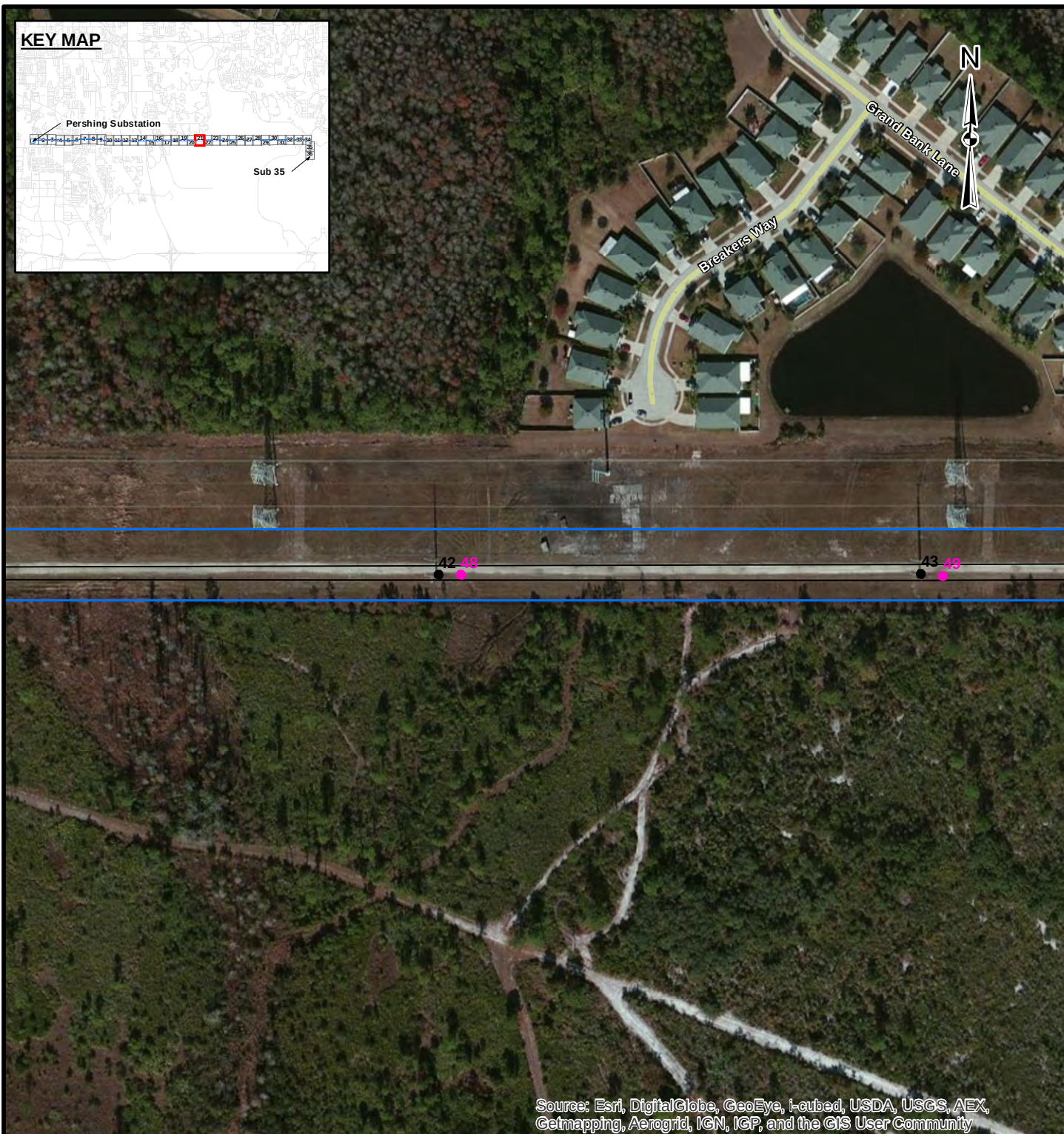
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FIGURE: 3
Page 20 of 36



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

● Existing Transmission Structures
 ● New Structures
 — Transmission Line
 □ ProjectArea

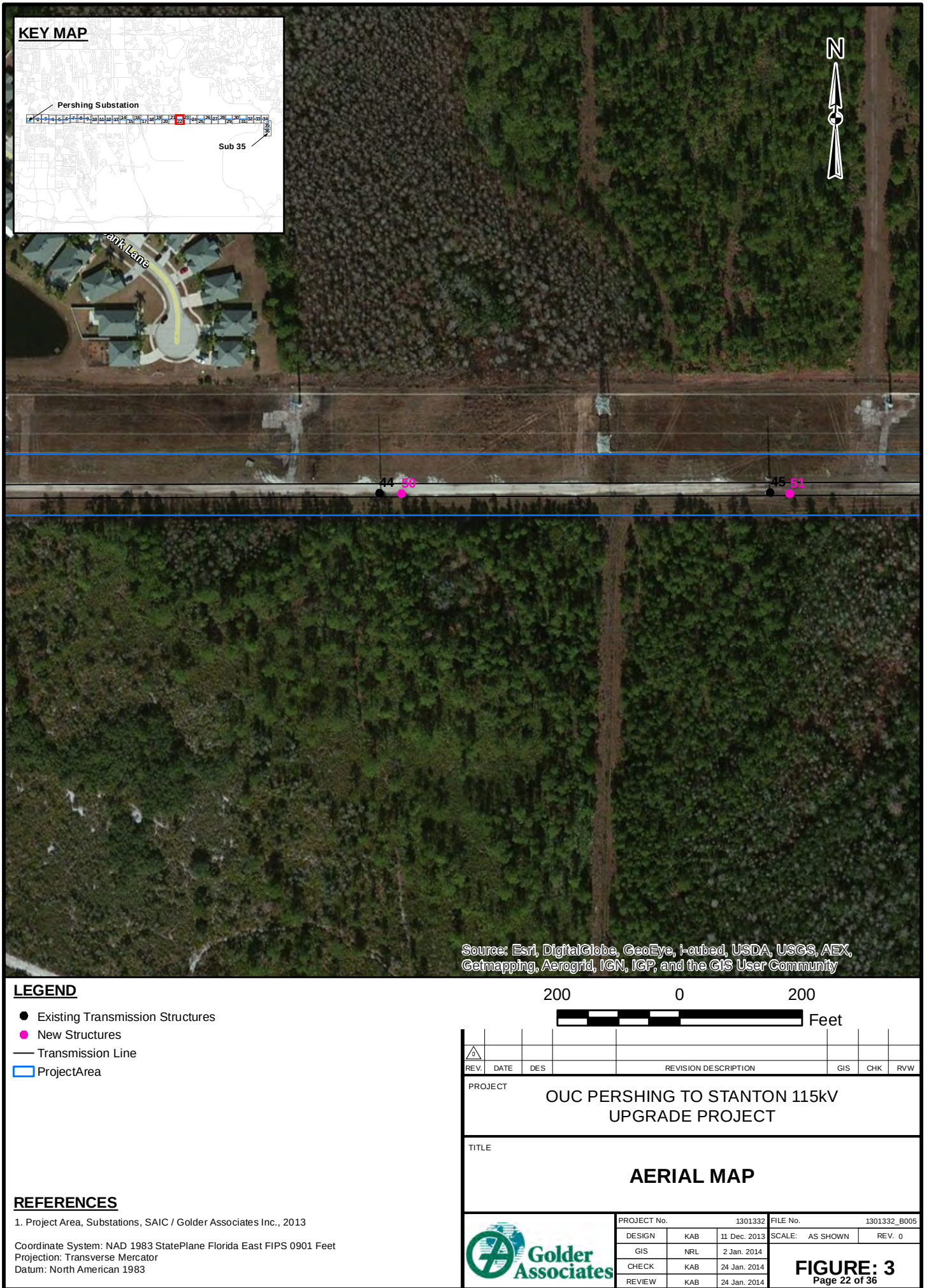
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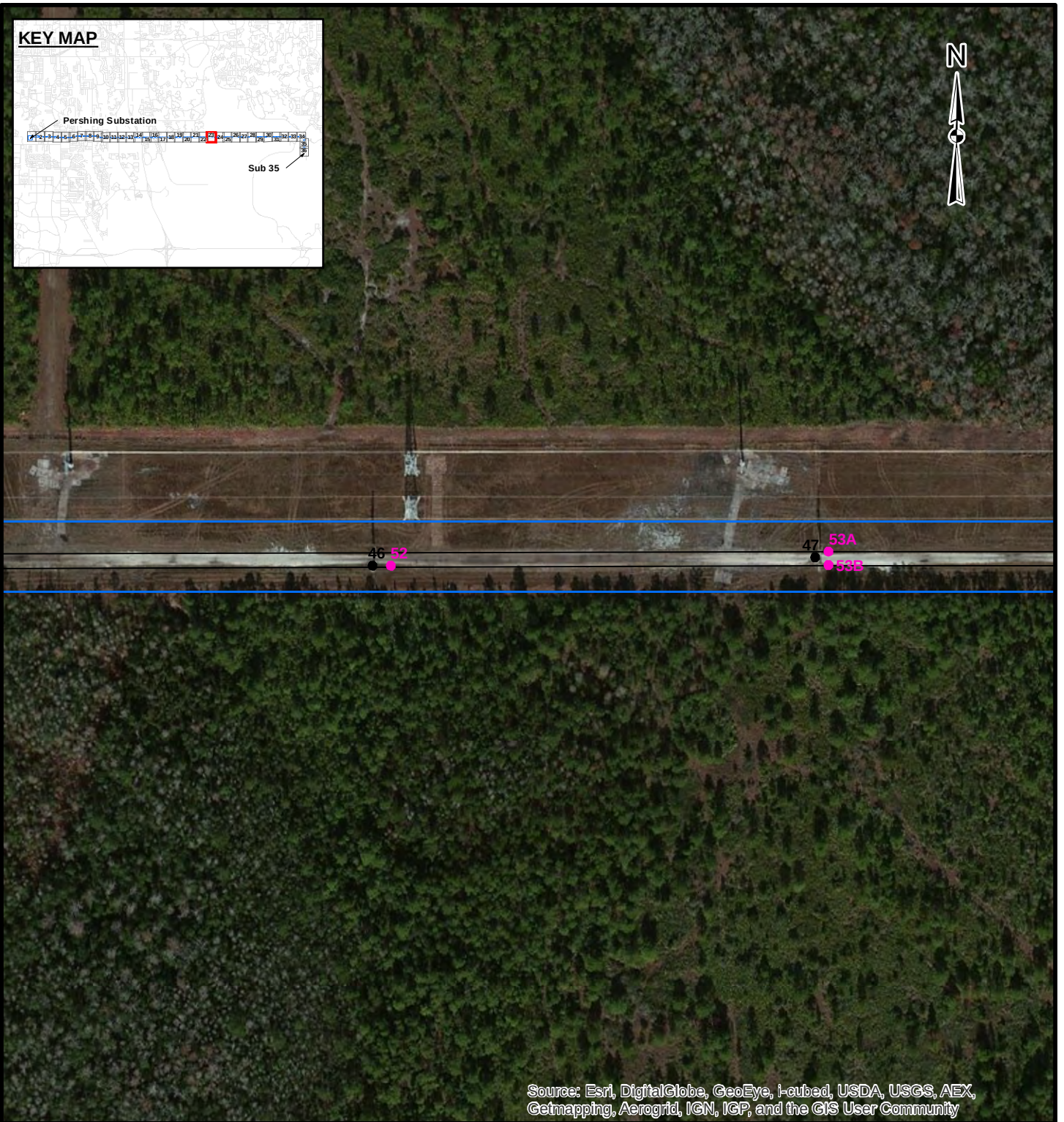
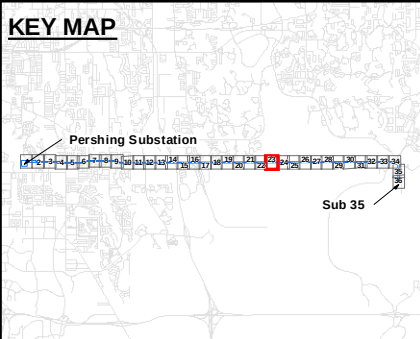


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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

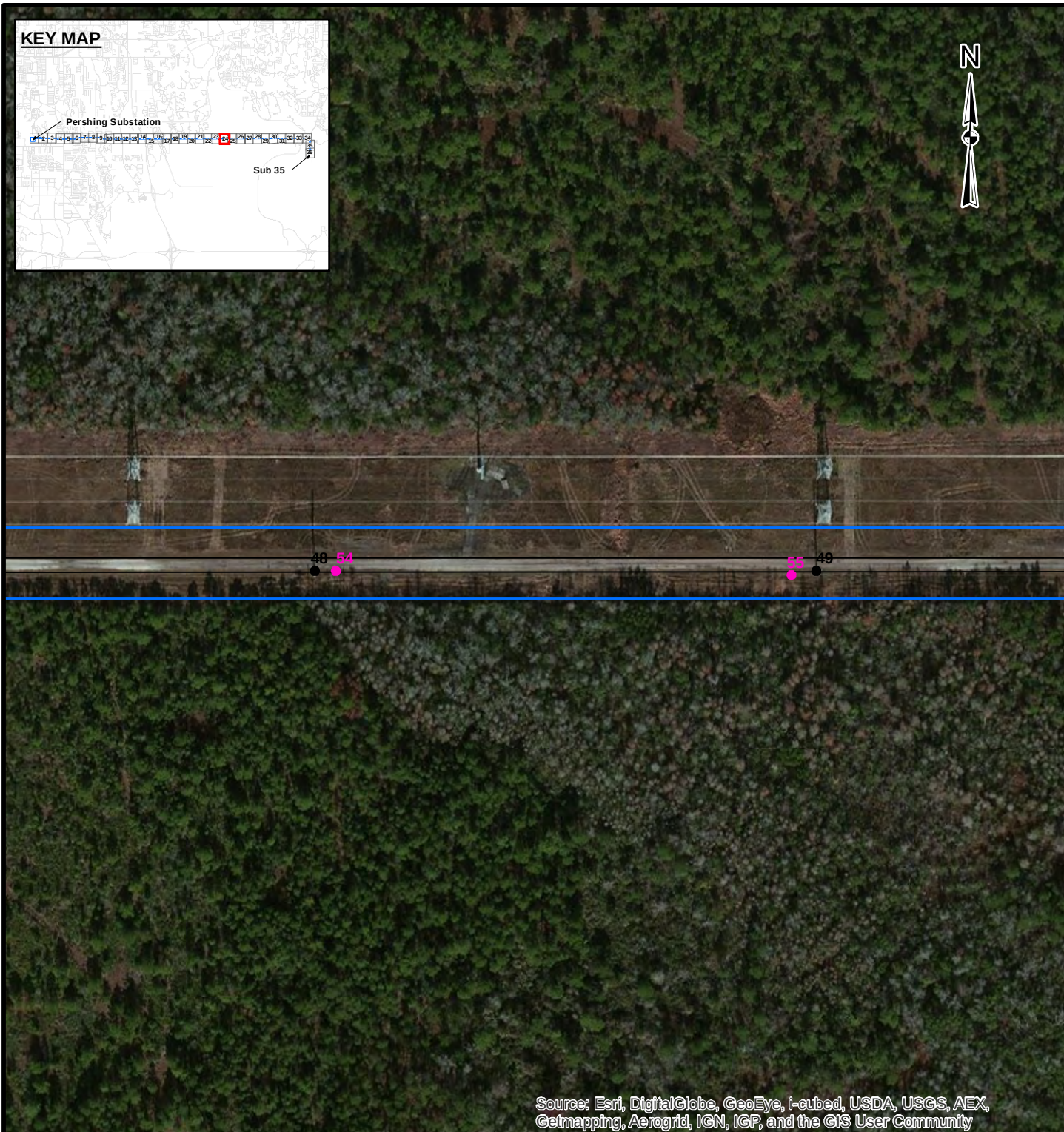
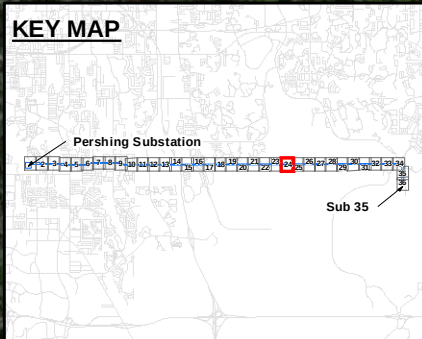
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

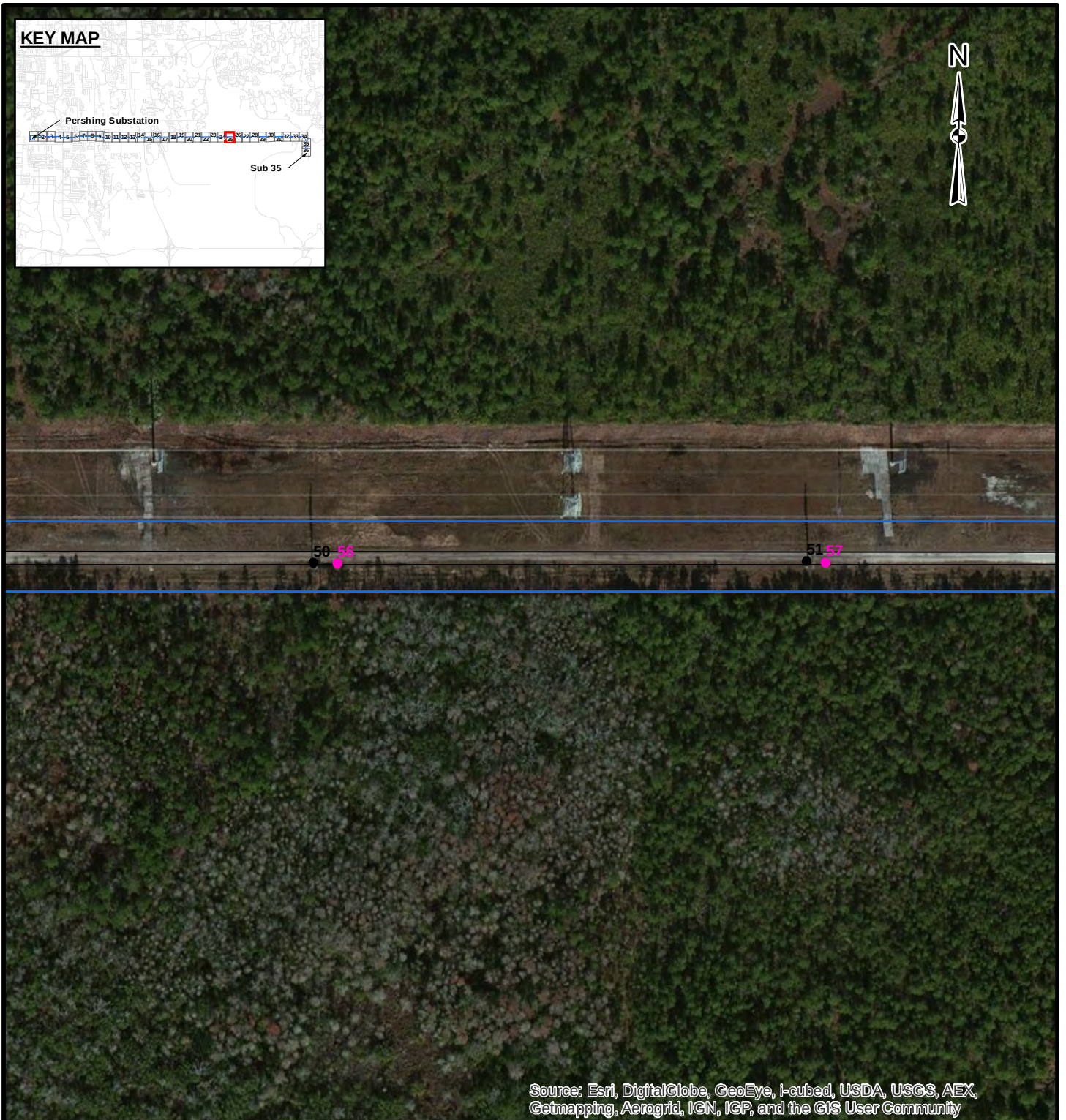
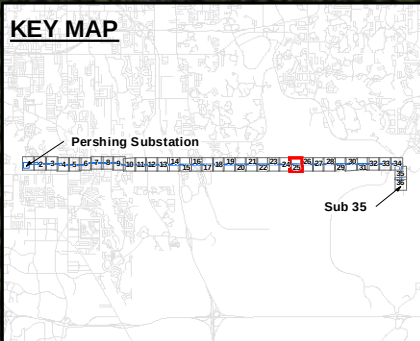
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Feet

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TITLE				AERIAL MAP			
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GIS	NRL	2 Jan. 2014		FIGURE: 3 Page 24 of 36			
CHECK	KAB	24 Jan. 2014					
REVIEW	KAB	24 Jan. 2014					



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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

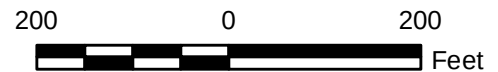
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

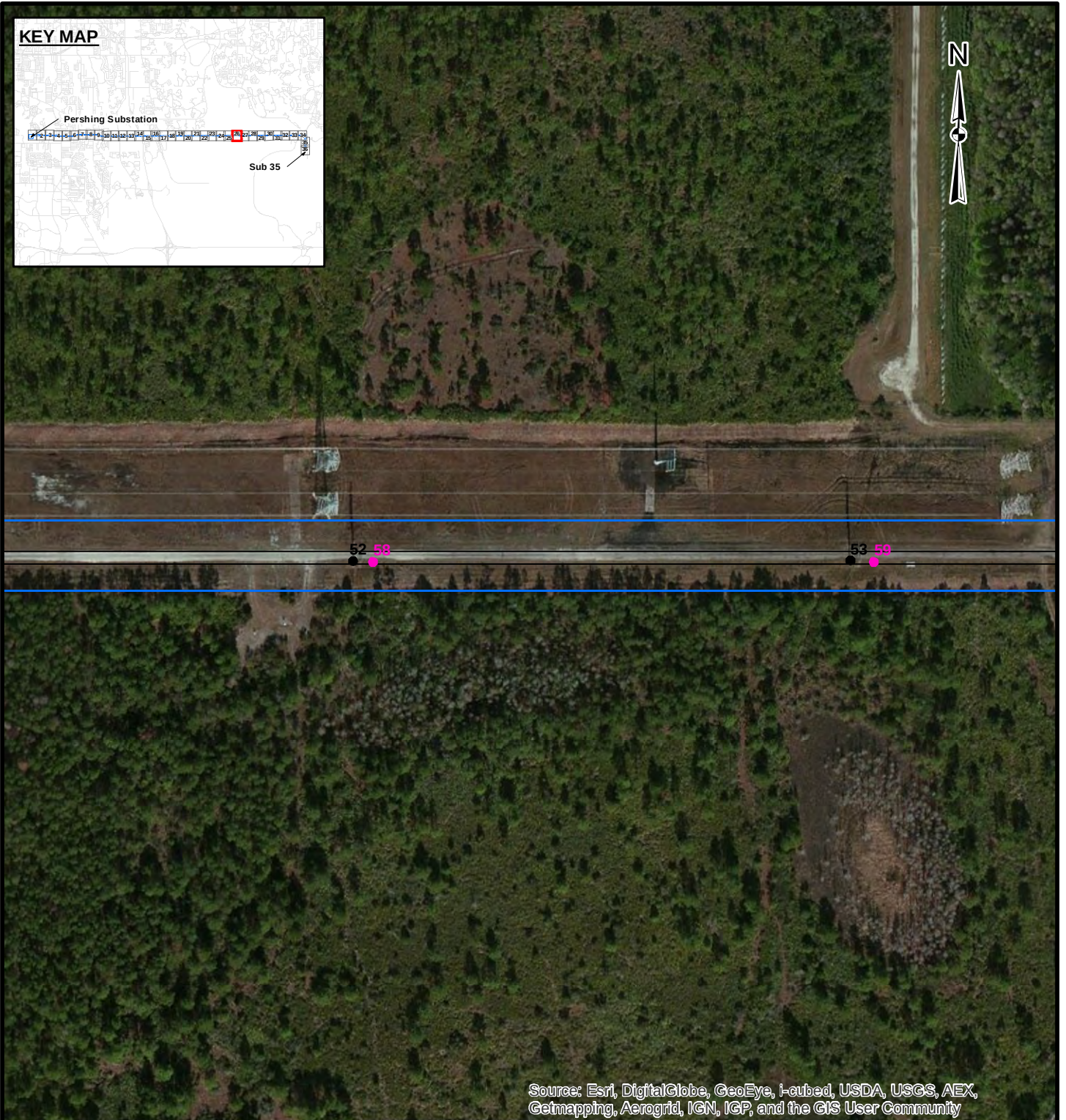
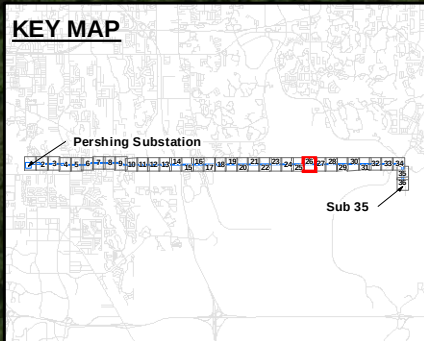
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Datum: North American 1983



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TITLE								
AERIAL MAP								
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FIGURE: 3
Page 25 of 36

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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Feet

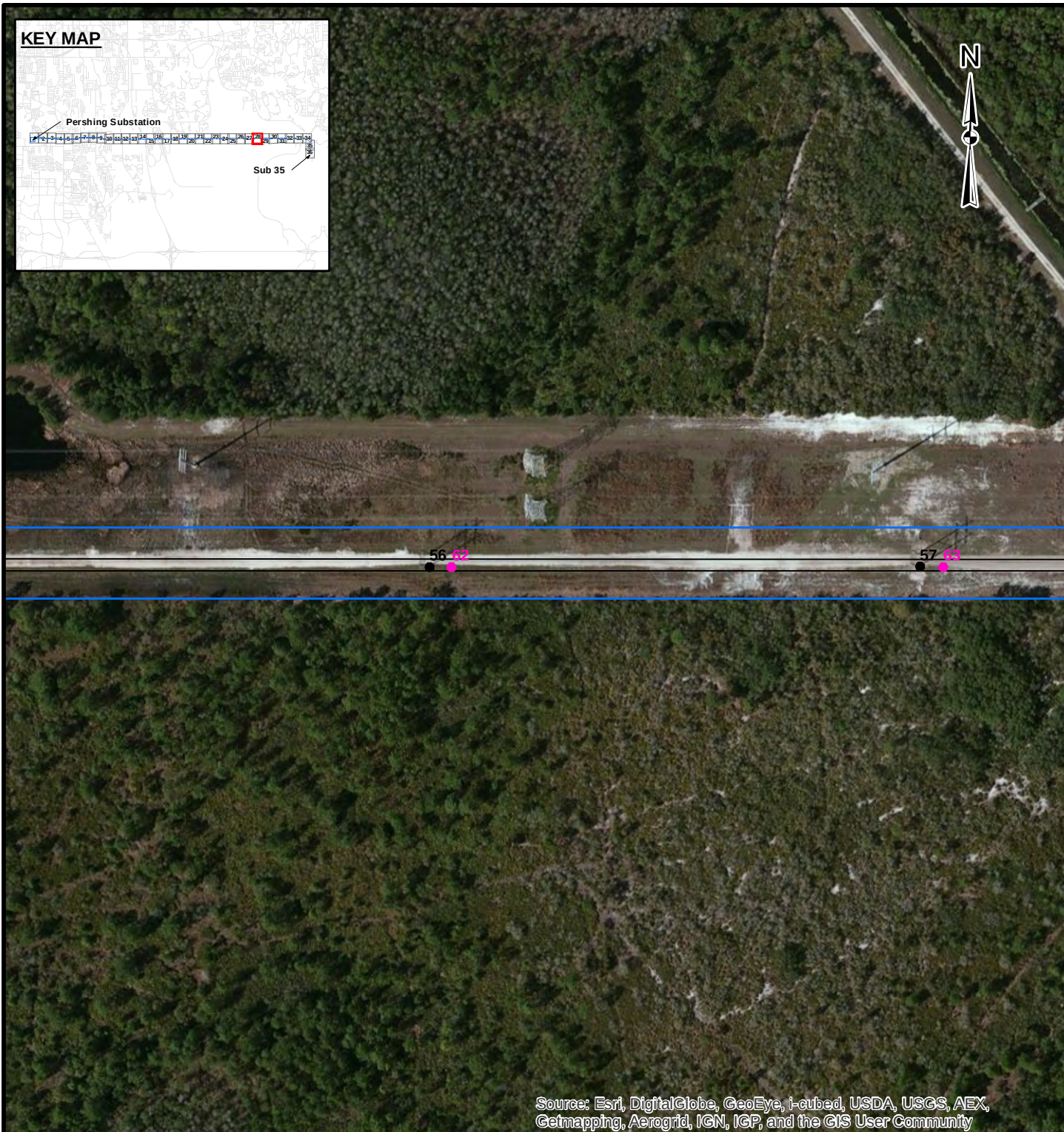
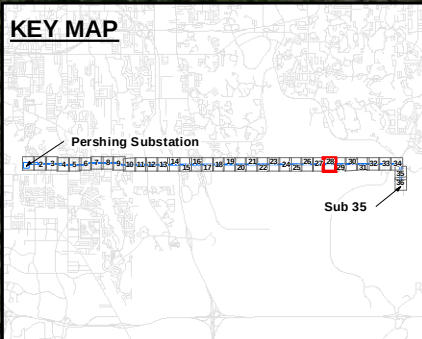
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FIGURE: 3
Page 26 of 36

FIGURE: 3
Page 27 of 36

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

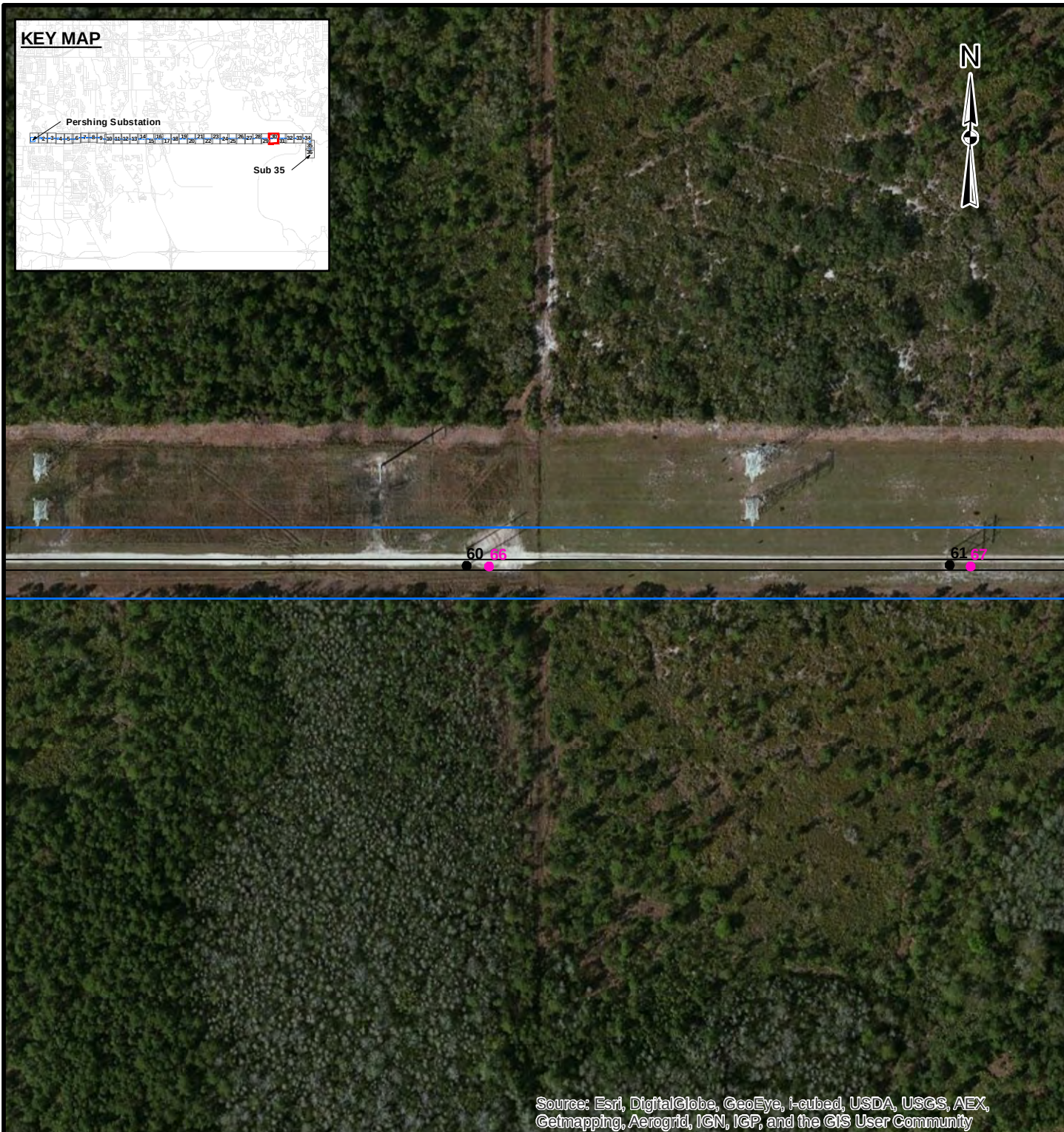
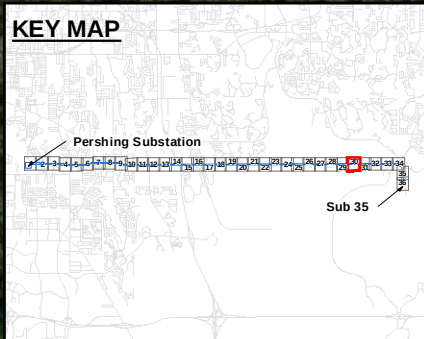
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CHECK	KAB	24 Jan. 2014					
REVIEW	KAB	24 Jan. 2014					



									
REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

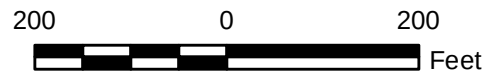
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

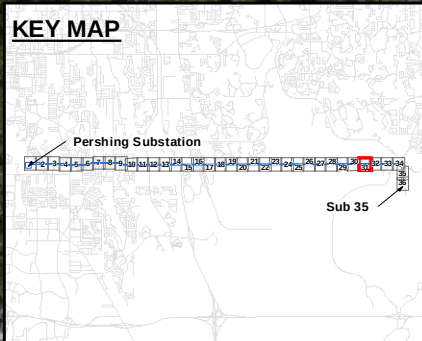
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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
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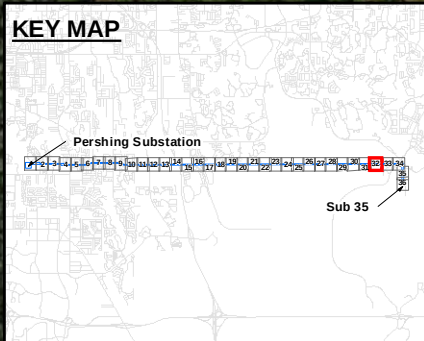


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GIS			1301332_B005			
CHECK			SCALE: AS SHOWN			
REVIEW			REV: 0			



FIGURE: 3
Page 31 of 36

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

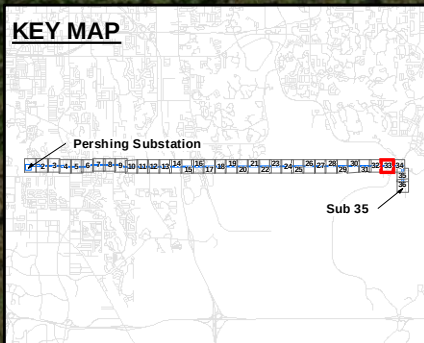
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

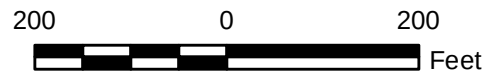
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013

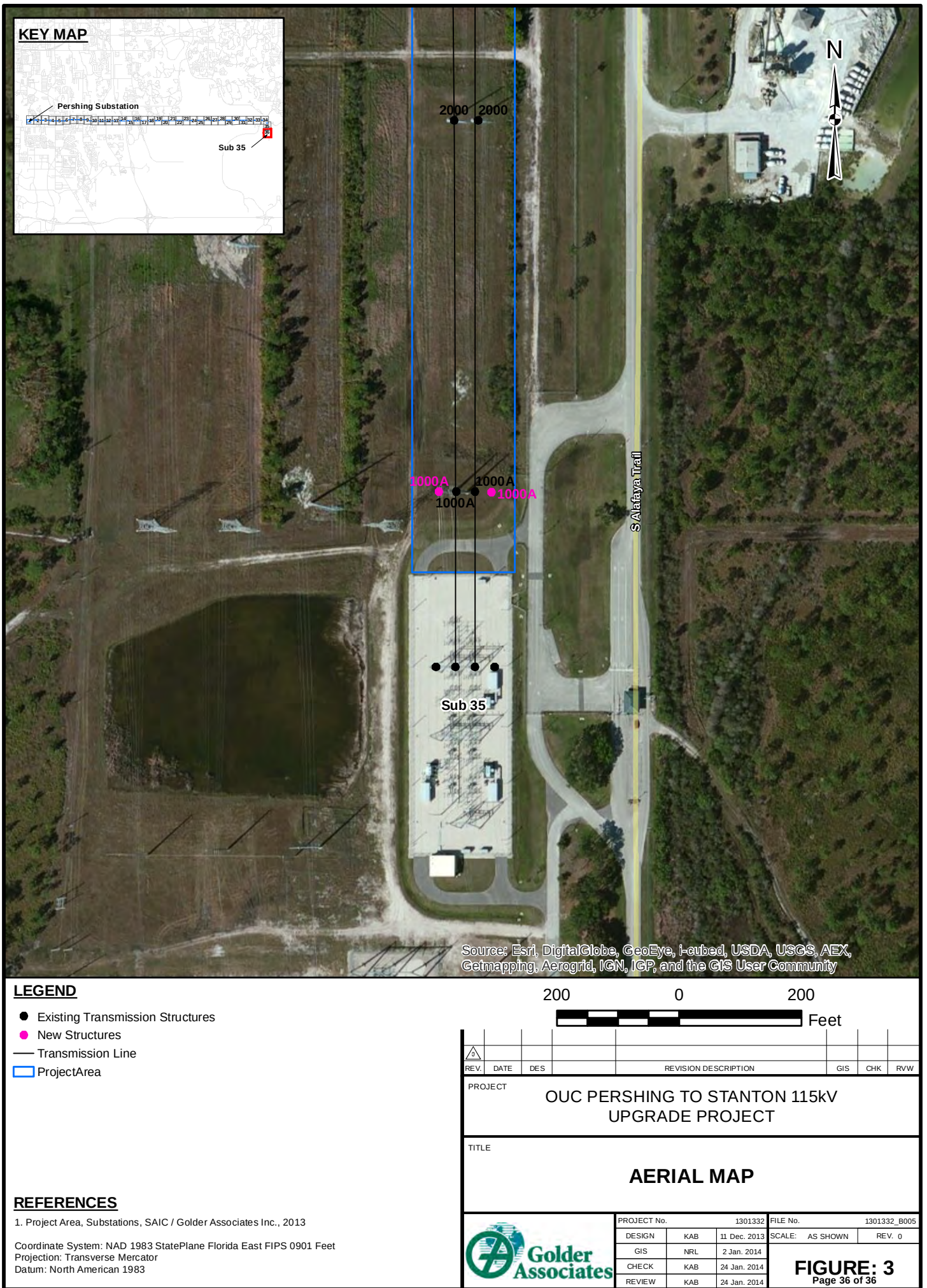
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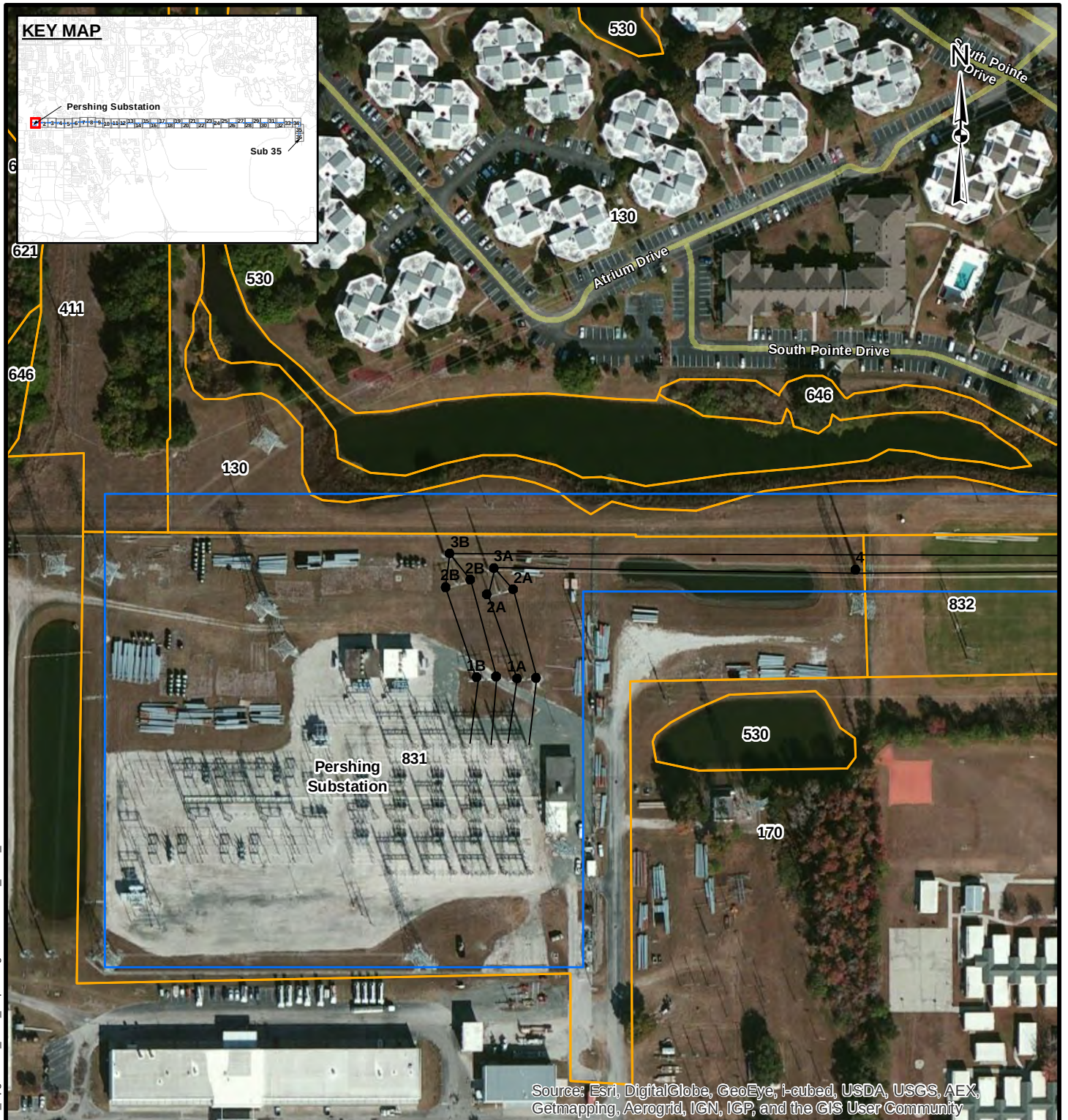
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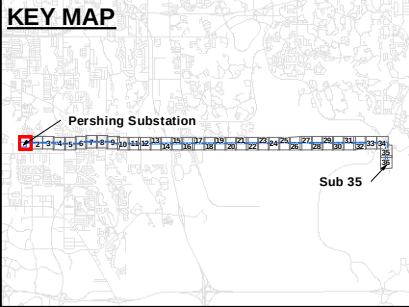
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

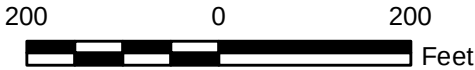


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ Project Area
- ▭ Land Use
- 411: Pine flatwoods
- 530: Reservoirs - pits, retention ponds, dams
- 621: Cypress
- 646: Mixed scrub-shrub wetland
- 130: Residential, high density - 6 or more dwelling units/acre
- 170: Institutional
- 831: Electrical power facilities
- 832: Electrical power transmission lines

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
 2. Land Use, SJRWMD, 2009
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983



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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use
- 130: Residential, high density - 6 or more dwelling units/acre
- 170: Institutional
- 182: Golf courses
- 190: Open land (urban)
- 434: Upland mixed coniferous/hardwood
- 530: Reservoirs - pits, retention ponds, dams
- 646: Mixed scrub-shrub wetland
- 832: Electrical power transmission lines

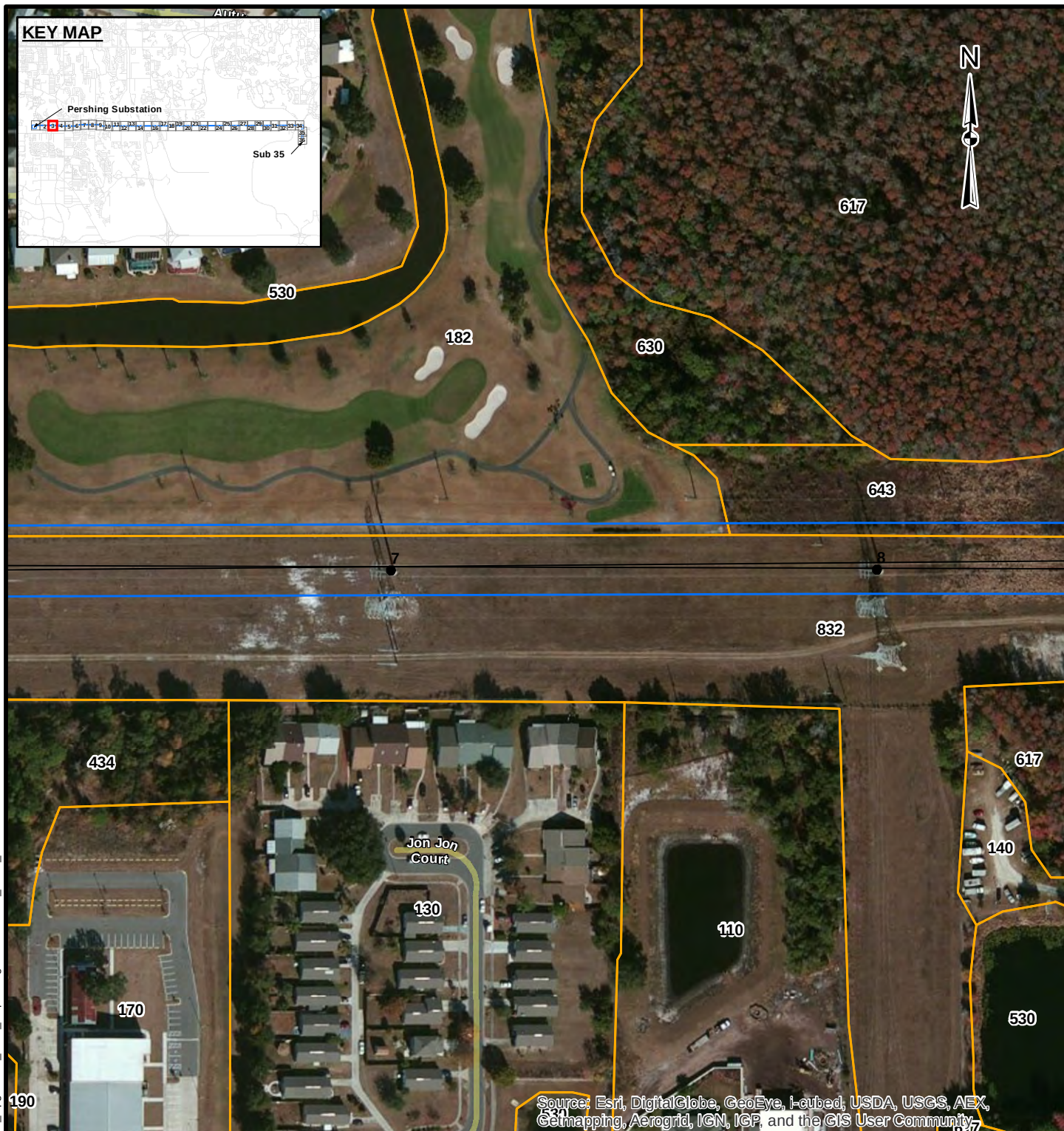
REFERENCES

- Project Area, Substations, SAIC / Golder Associates Inc., 2013
- Land Use, SJRWMD, 2009

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REVIEW			KAB			24 Jan. 2014								
						FIGURE: 4 Page 2 of 36								

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LEGEND

- Existing Transmission Structures
 - New Structures
 - Transmission Line
 - Project Area
 - Land Use
- 110: Residential, low density - less than 2 dwelling units/acre
130: Residential, high density - 6 or more dwelling units/acre
140: Commercial and services
- 170: Institutional
182: Golf courses
190: Open land (urban)
434: Upland mixed coniferous/hardwood
530: Reservoirs - pits, retention ponds, dams
617: Mixed wetland hardwoods
630: Wetland forested mixed
643: Wet prairies
832: Electrical power transmission lines

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

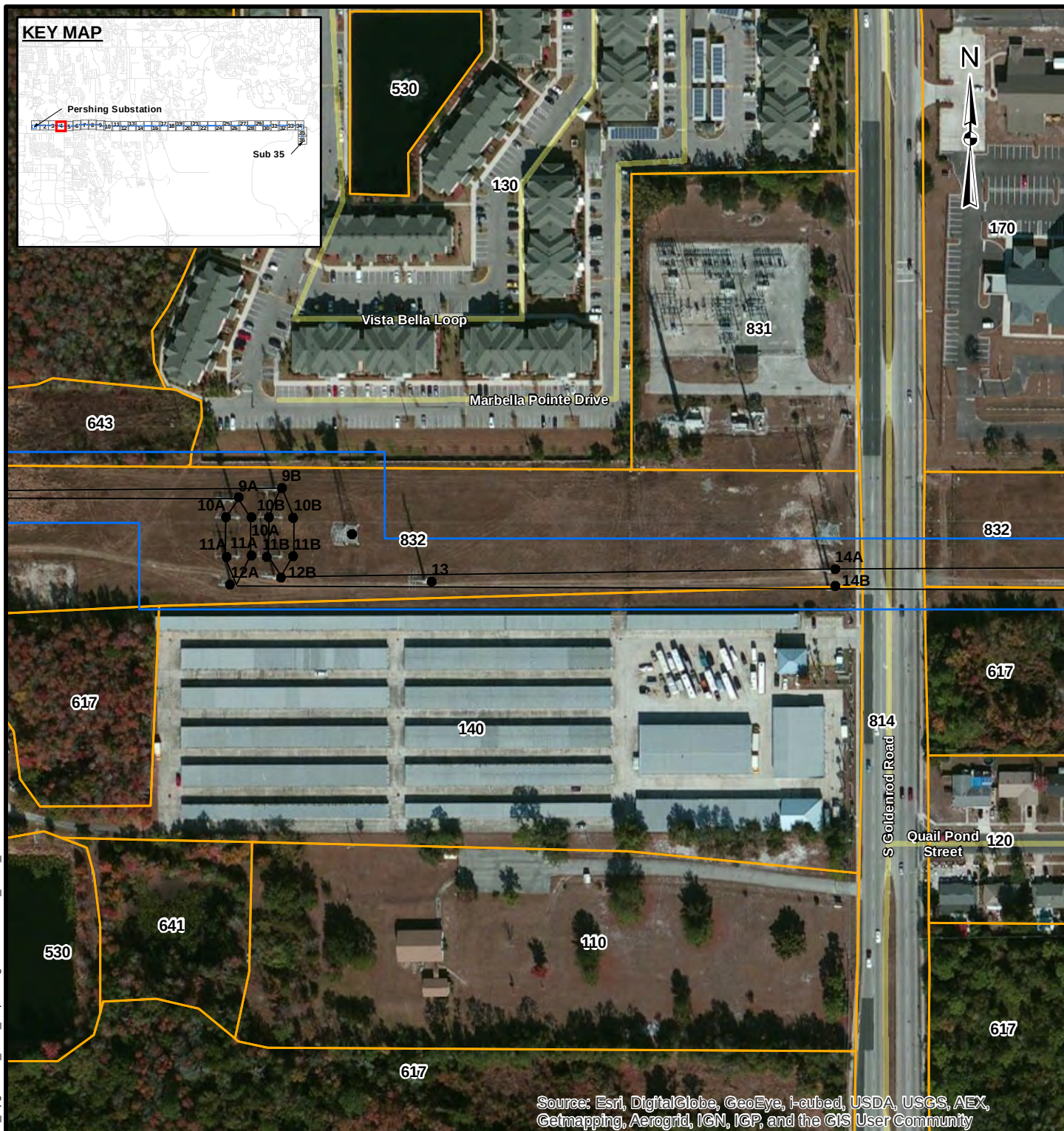
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
 - New Structures
 - Transmission Line
 - Project Area
 - Land Use
- 110: Residential, low density - less than 2 dwelling units/acre
120: Residential, medium density - 2-5 dwelling units/acre
130: Residential, high density - 6 or more dwelling units/acre
- 140: Commercial and services
170: Institutional
530: Reservoirs - pits, retention ponds, dams
617: Mixed wetland hardwoods
641: Freshwater marshes
643: Wet prairies
814: Roads and highways (divided 4-lanes with medians)
831: Electrical power facilities
832: Electrical power transmission lines

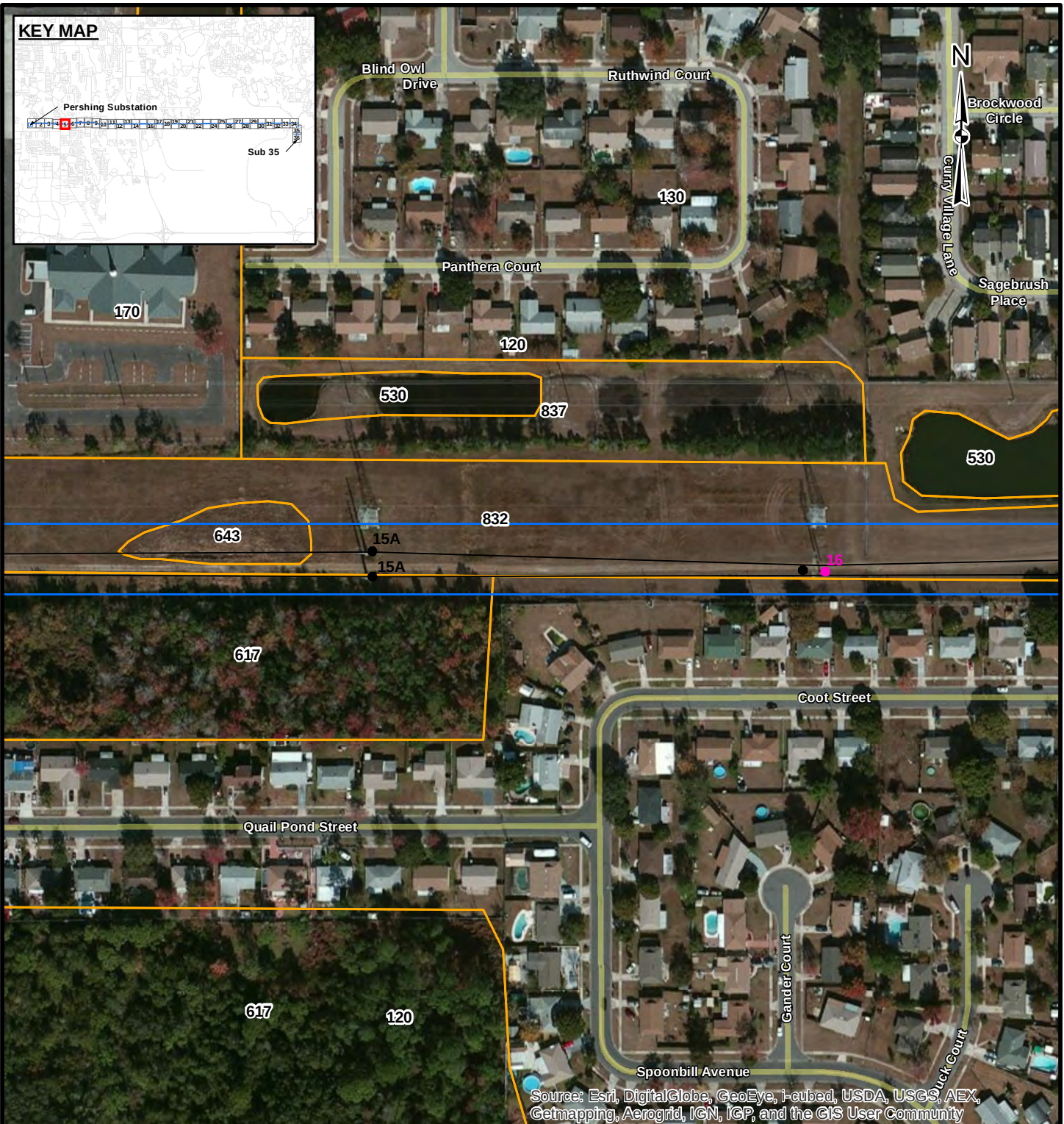
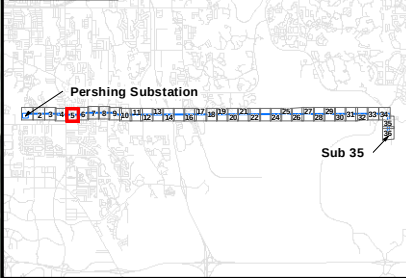
REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

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Datum: North American 1983

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REVIEW			KAB			24 Jan. 2014								
			FIGURE: 4 Page 4 of 36											

KEY MAP



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use
- 120: Residential, medium density - 2-5 dwelling units/acre

- 130: Residential, high density - 6 or more dwelling units/acre
- 170: Institutional
- 530: Reservoirs - pits, retention ponds, dams
- 617: Mixed wetland hardwoods
- 643: Wet prairies
- 832: Electrical power transmission lines
- 837: Surface water collection basins

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
 Projection: Transverse Mercator
 Datum: North American 1983

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TITLE						
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CHECK			KAB 24 Jan. 2014			
REVIEW			KAB 24 Jan. 2014			



FIGURE: 4
 Page 5 of 36



Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use

120: Residential, medium density - 2-5 dwelling units/acre

130: Residential, high density - 6 or more dwelling units/acre

170: Institutional

832: Electrical power transmission lines

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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REVIEW			KAB	24 Jan. 2014		



FIGURE: 4
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TITLE

FLUCFCS MAP

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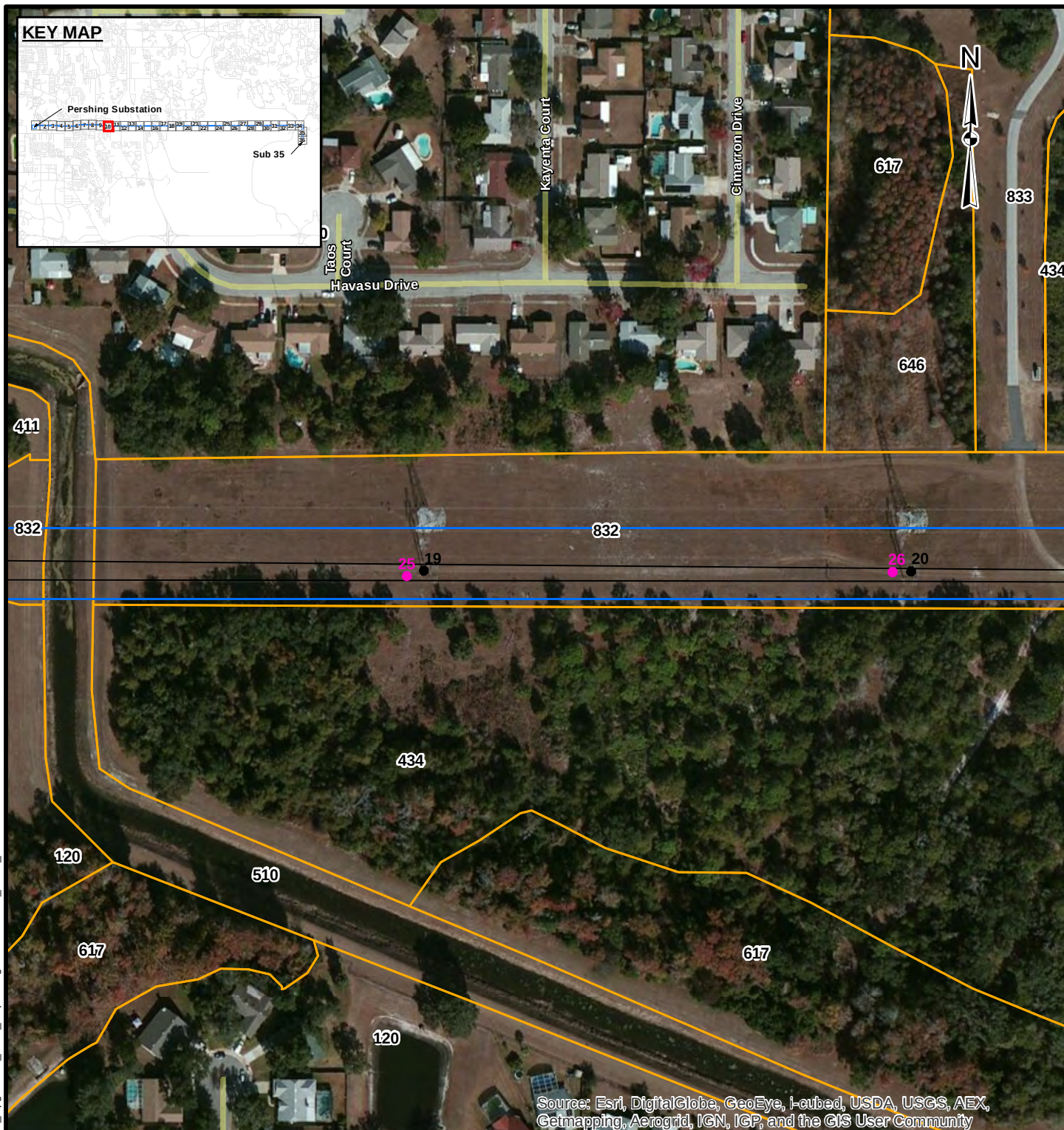
PROJECT

OUC PERSHING TO STANTON 115kV
UPGRADE PROJECT

TITLE

FLUCFCS MAP

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REVIEW	KAB	24 Jan. 2014	



Pershing Substation

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Sub 35

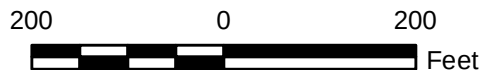
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● Existing Transmission Structures
 ● New Structures
 — Transmission Line
 □ ProjectArea
 □ LandUse
 120: Residential, medium density - 2-5 dwelling units/acre

411: Pine flatwoods
434: Upland mixed coniferous/hardwood
510: Streams and waterways
617: Mixed wetland hardwoods
646: Mixed scrub-shrub wetland
832: Electrical power transmission lines
833: Water supply plants

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

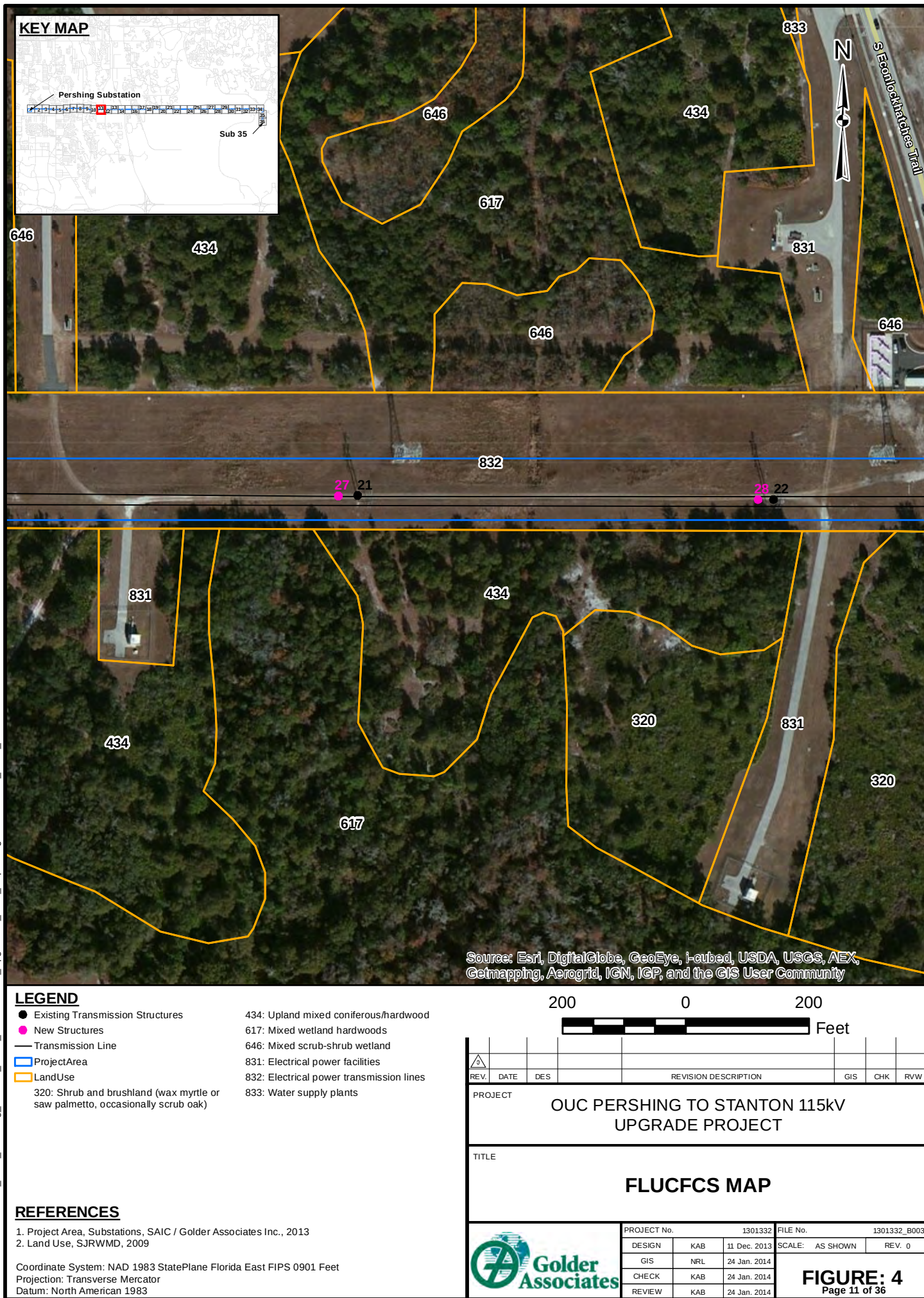
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Projection: Transverse Mercator
Datum: North American 1983



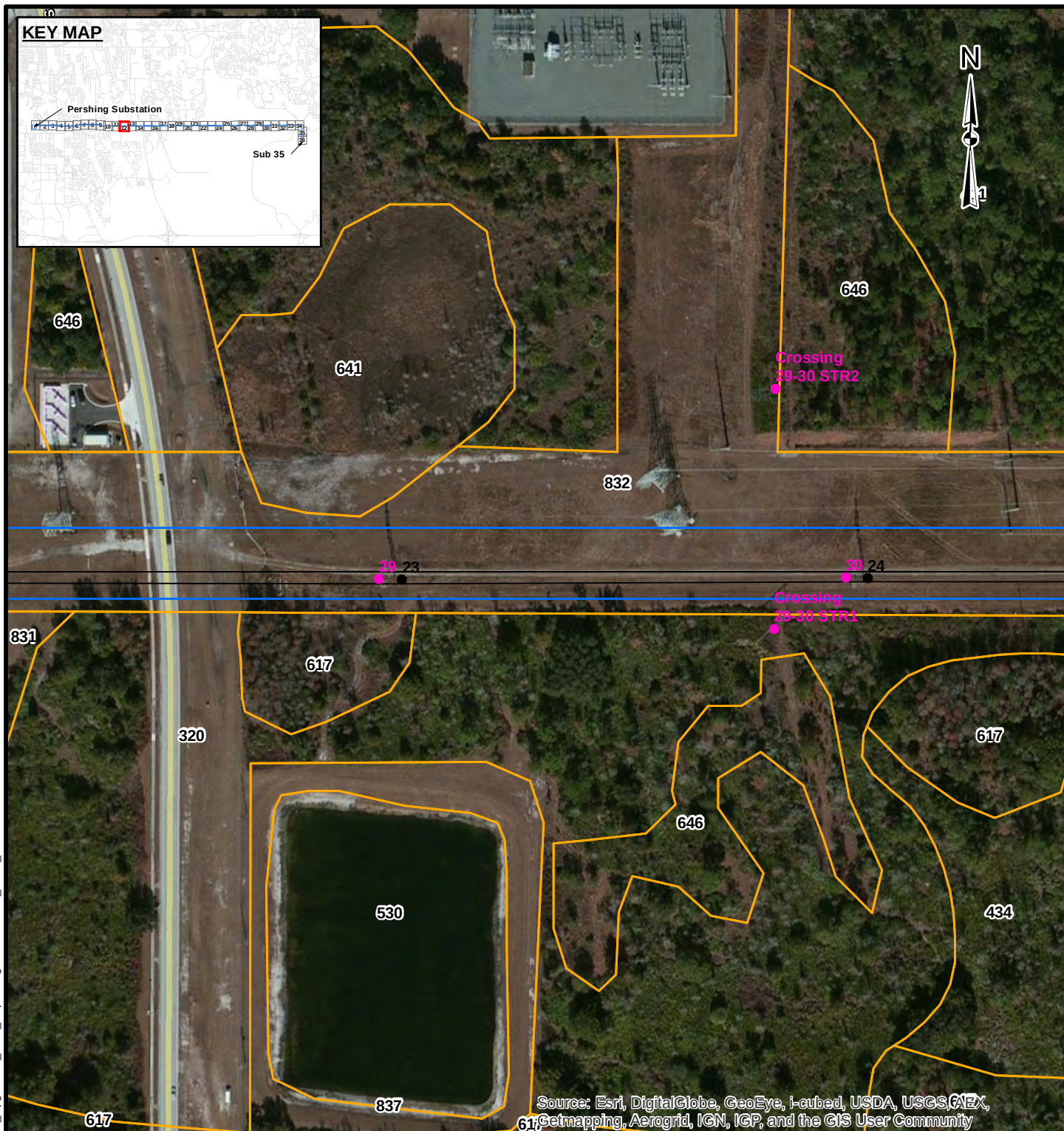
									
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FIGURE: 4
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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use
- 320: Shrub and brushland (wax myrtle or saw palmetto, occasionally scrub oak)
- 411: Pine flatwoods

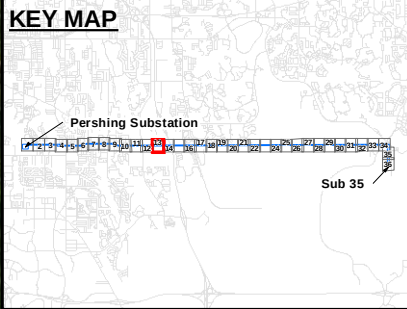
- 434: Upland mixed coniferous/hardwood
- 530: Reservoirs - pits, retention ponds, dams
- 617: Mixed wetland hardwoods
- 641: Freshwater marshes
- 646: Mixed scrub-shrub wetland
- 831: Electrical power facilities
- 832: Electrical power transmission lines
- 837: Surface water collection basins

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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				FIGURE: 4 Page 12 of 36																																																																		



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

510
617

LEGEND

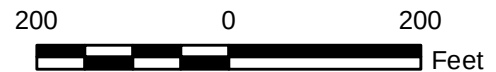
- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use
- 320: Shrub and brushland (wax myrtle or saw palmetto, occasionally scrub oak)
- 411: Pine flatwoods

- 434: Upland mixed coniferous/hardwood
- 510: Streams and waterways
- 617: Mixed wetland hardwoods
- 621: Cypress
- 641: Freshwater marshes
- 741: Rural land in transition without positive indicators of intended activity
- 832: Electrical power transmission lines

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
 Projection: Transverse Mercator
 Datum: North American 1983

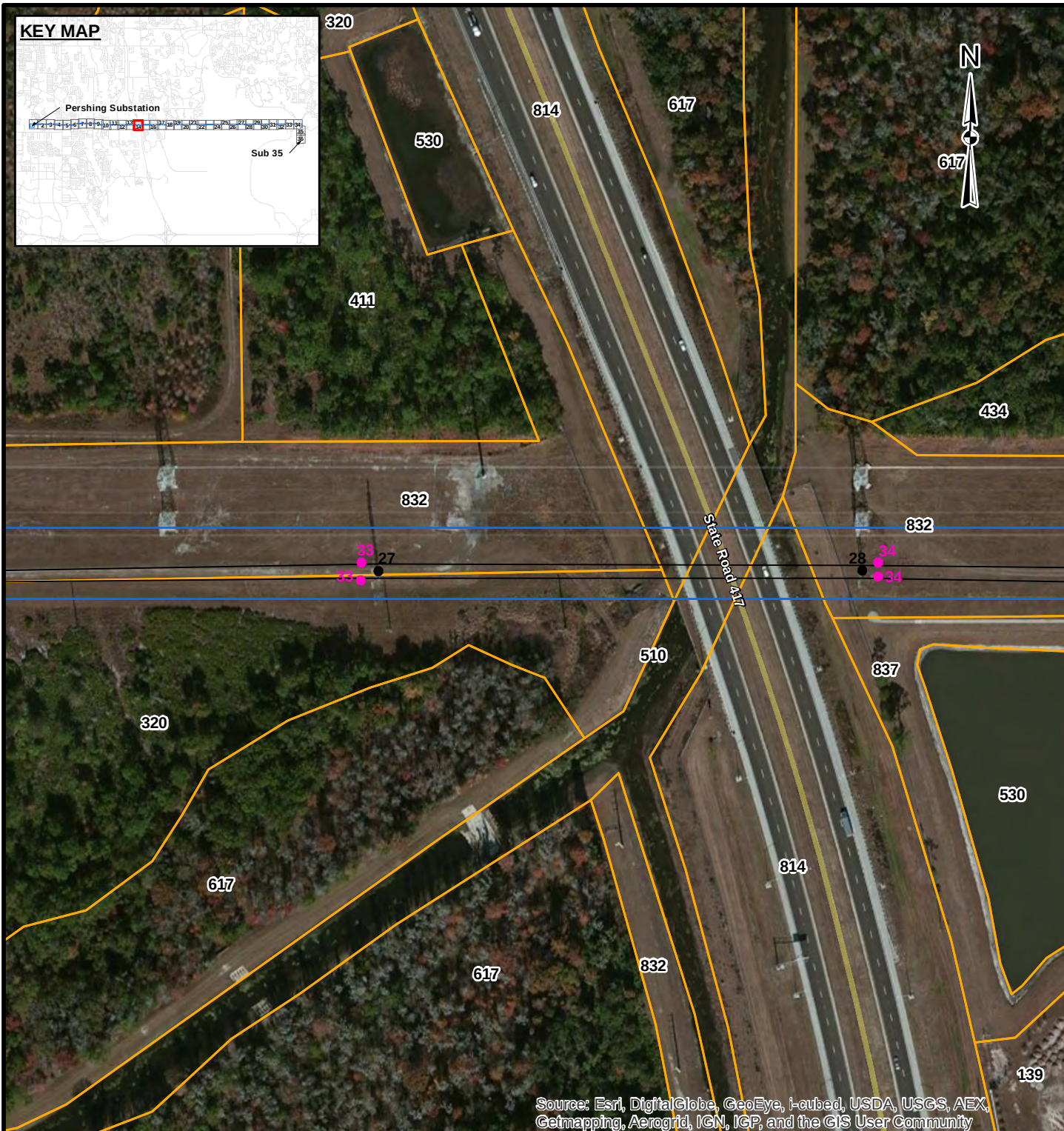
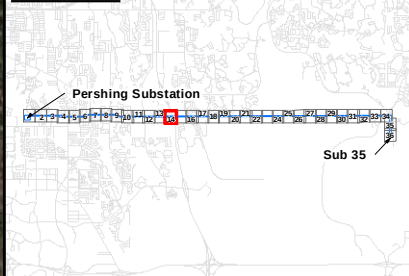


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DESIGN			1301332			
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FIGURE: 4
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KEY MAP



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ Project Area
- ▭ Land Use
- 139: High density under construction
- 320: Shrub and brushland (wax myrtle or saw palmetto, occasionally scrub oak)
- 411: Pine flatwoods
- 434: Upland mixed coniferous/hardwood

- 510: Streams and waterways
- 530: Reservoirs - pits, retention ponds, dams
- 617: Mixed wetland hardwoods
- 641: Freshwater marshes
- 814: Roads and highways (divided 4-lanes with medians)
- 832: Electrical power transmission lines
- 837: Surface water collection basins

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
 Projection: Transverse Mercator
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FILE No.				1301332_B003			
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FIGURE: 4
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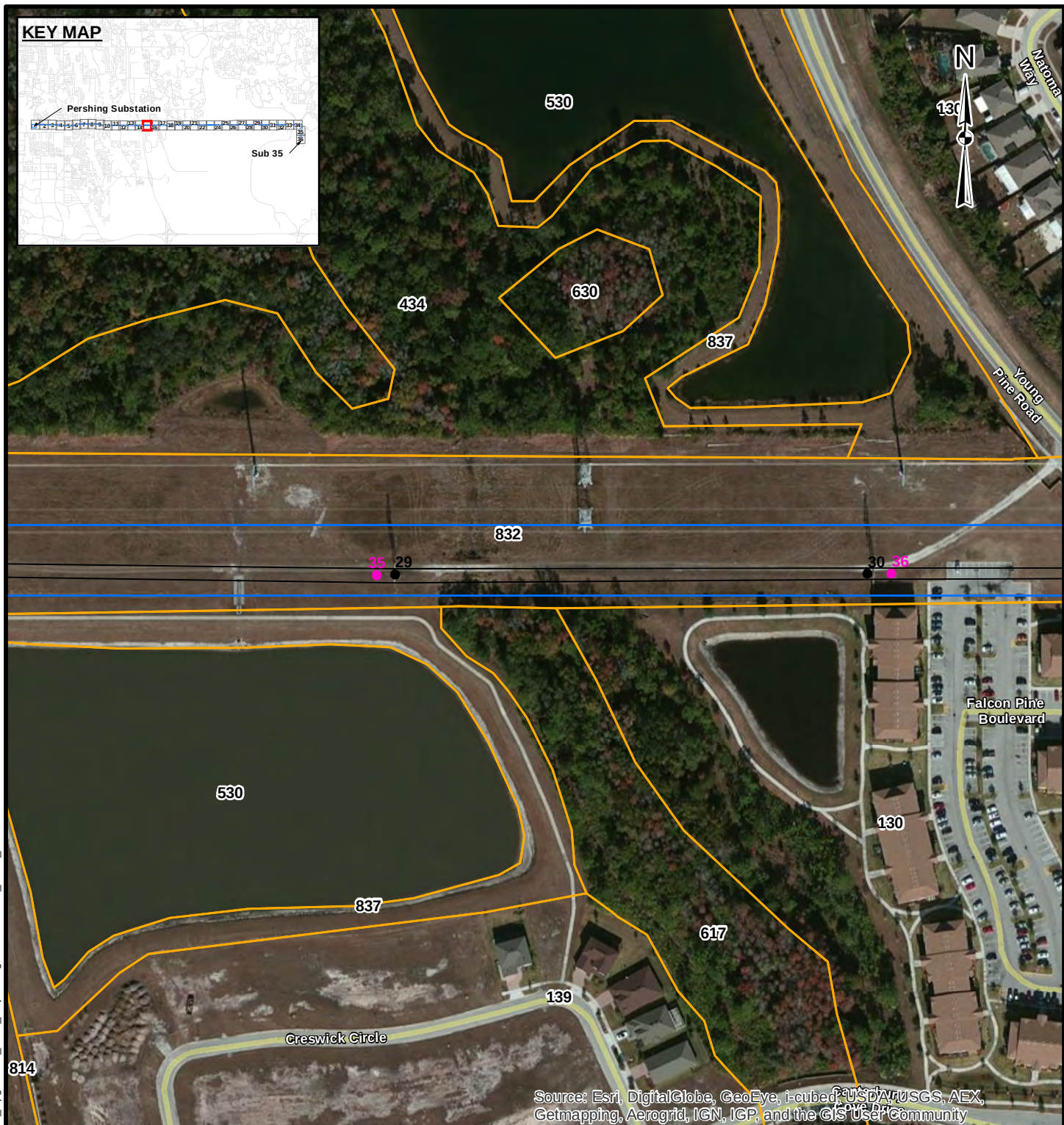
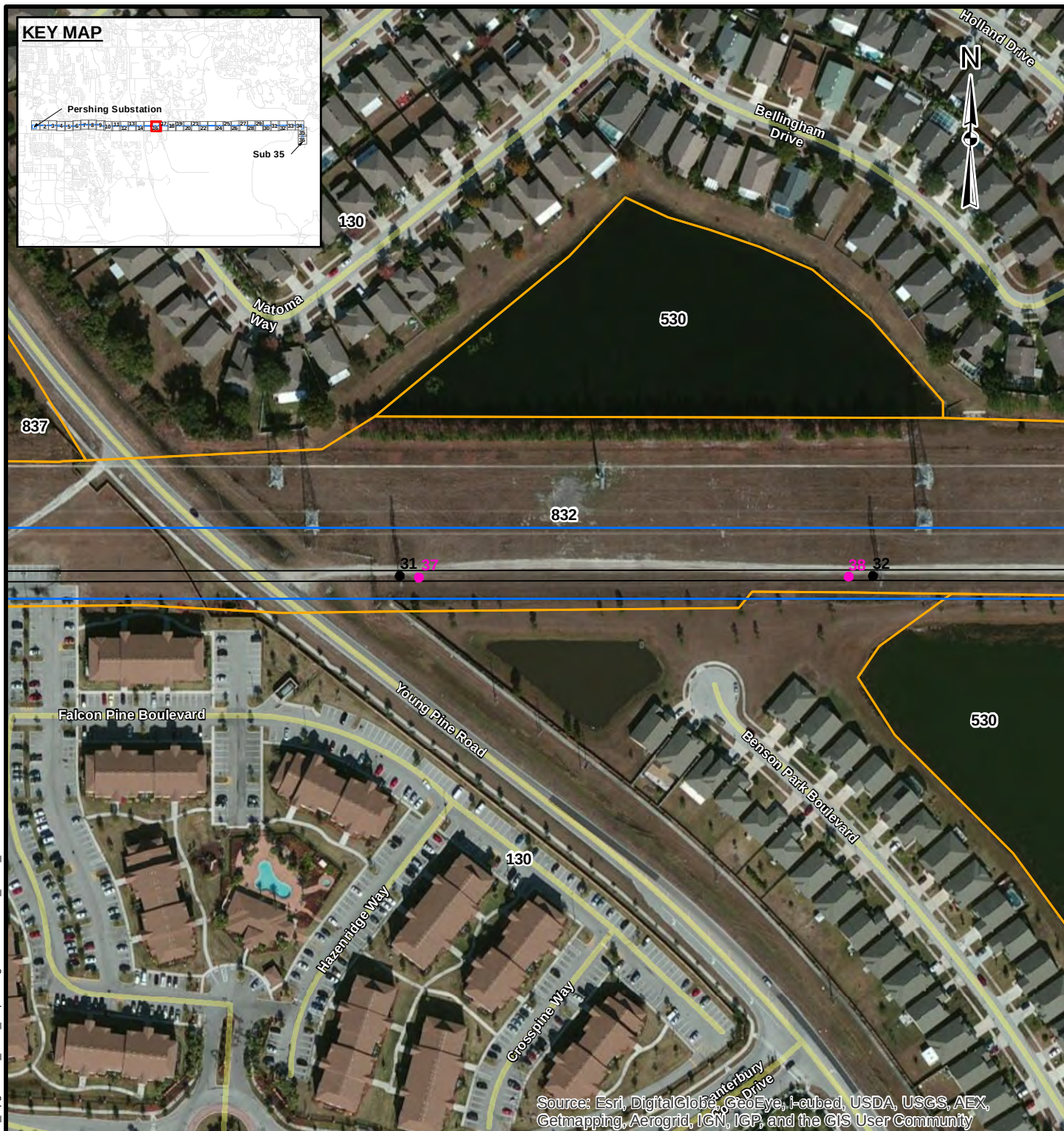


FIGURE: 4
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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use
- 130: Residential, high density - 6 or more dwelling units/acre

- 530: Reservoirs - pits, retention ponds, dams
- 832: Electrical power transmission lines
- 837: Surface water collection basins

200 0 200 Feet

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use
- 120: Residential, medium density - 2-5 dwelling units/acre

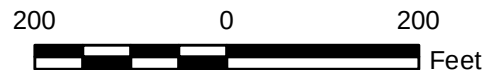
- 130: Residential, high density - 6 or more dwelling units/acre
- 411: Pine flatwoods
- 530: Reservoirs - pits, retention ponds, dams
- 621: Cypress
- 832: Electrical power transmission lines

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
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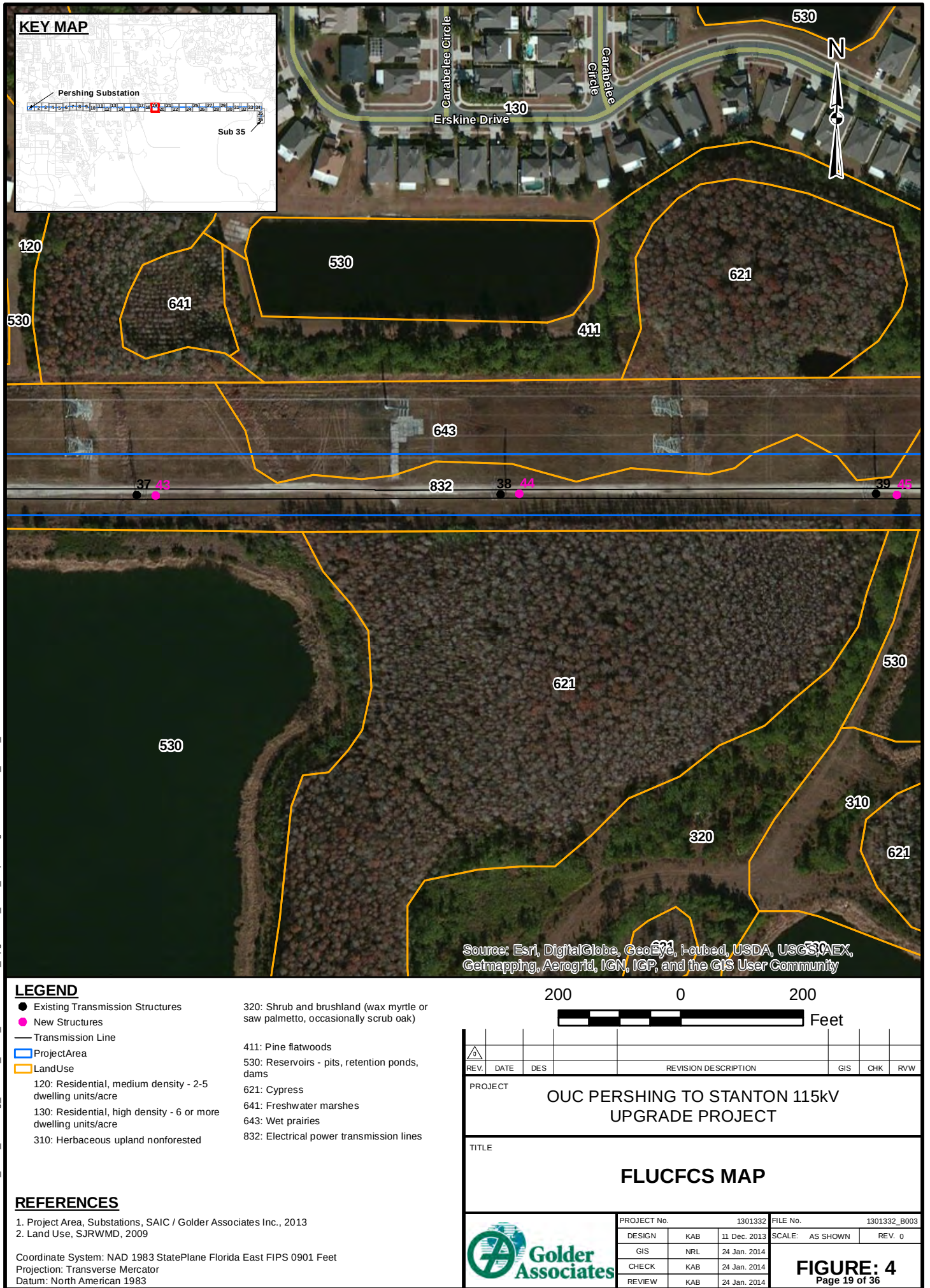
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

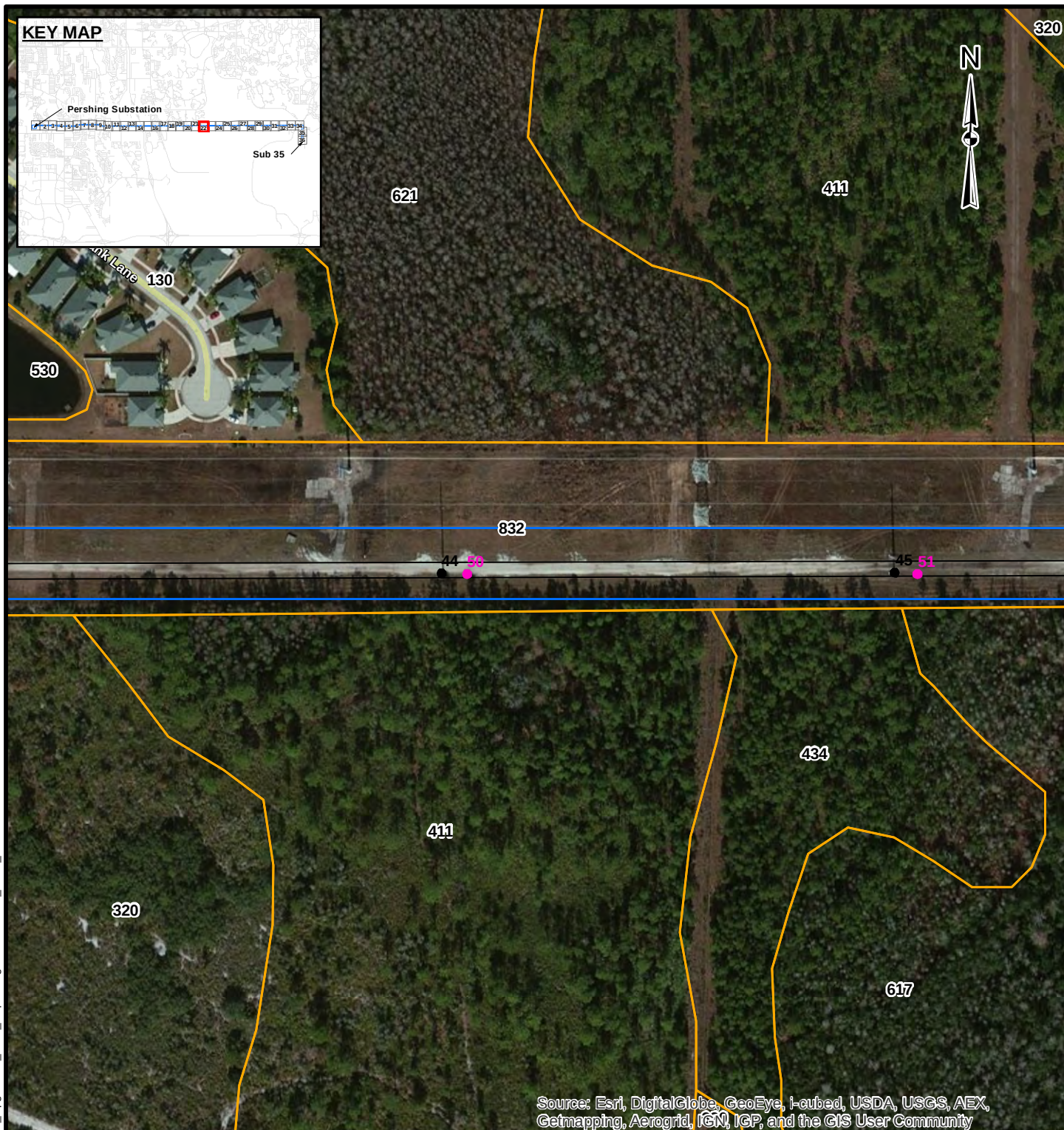


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FIGURE: 4				Page 18 of 36			



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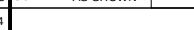
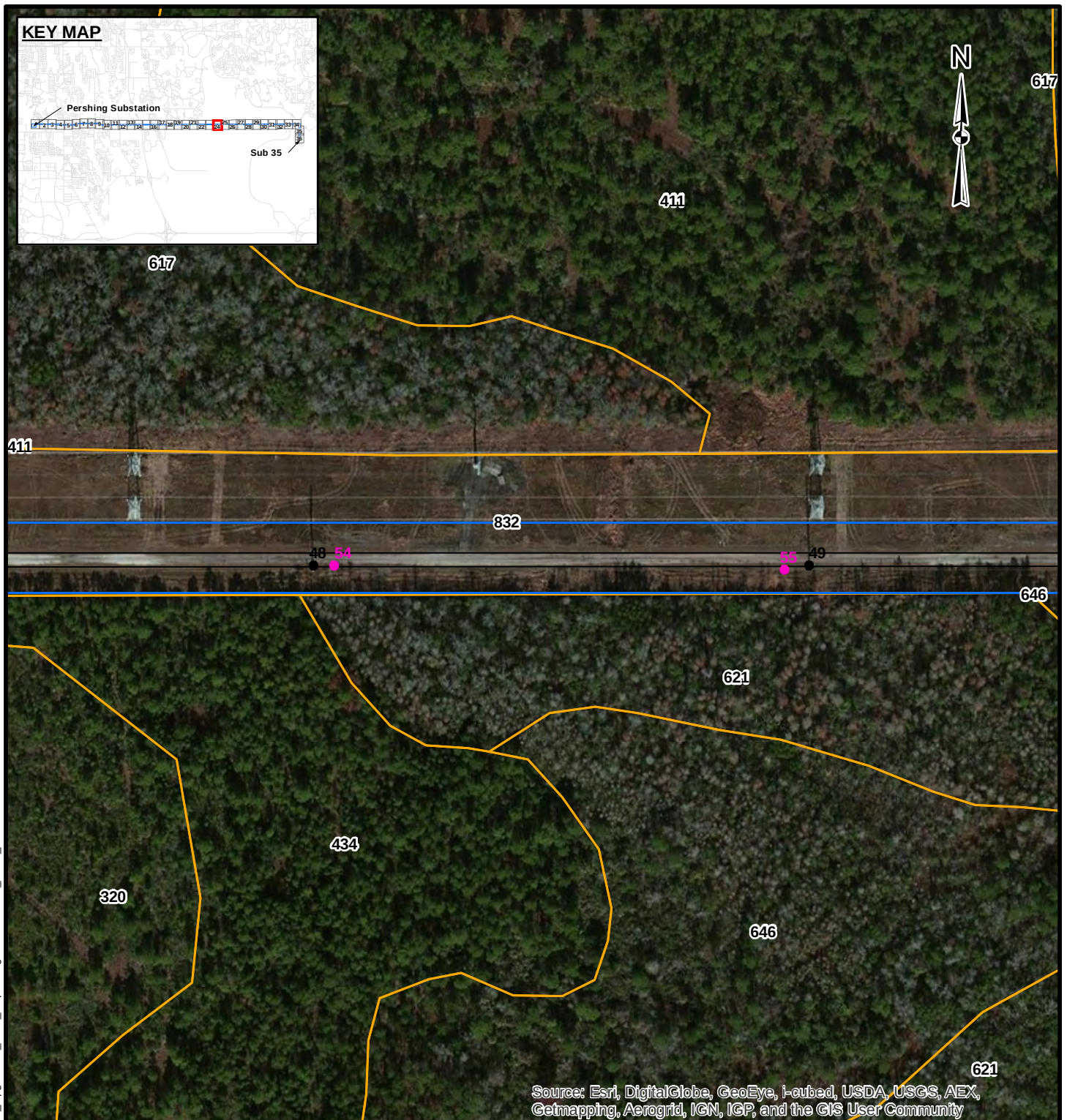
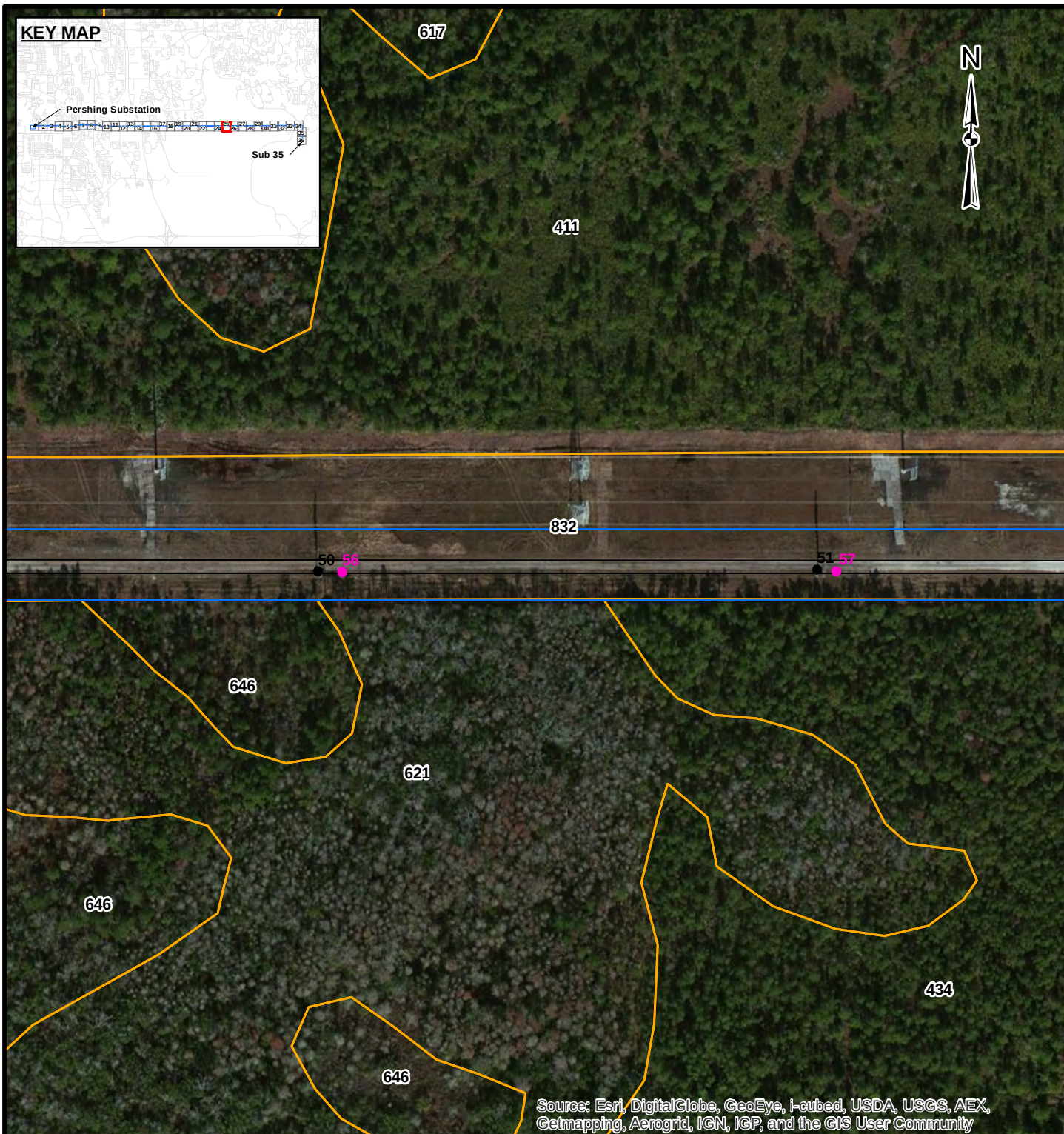
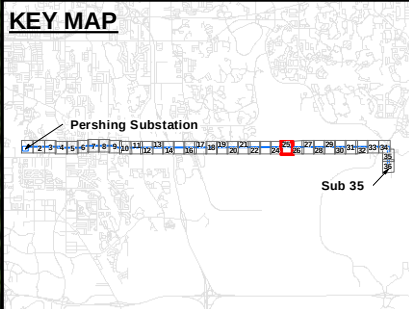
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REVIEW	KAB	24 Jan. 2014		

FIGURE: 4
Page 23 of 36





Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

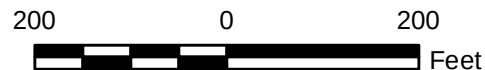
LEGEND

- Existing Transmission Structures
 - New Structures
 - Transmission Line
 - Project Area
 - Land Use
- 411: Pine flatwoods
- 434: Upland mixed coniferous/hardwood
617: Mixed wetland hardwoods
621: Cypress
646: Mixed scrub-shrub wetland
832: Electrical power transmission lines

REFERENCES

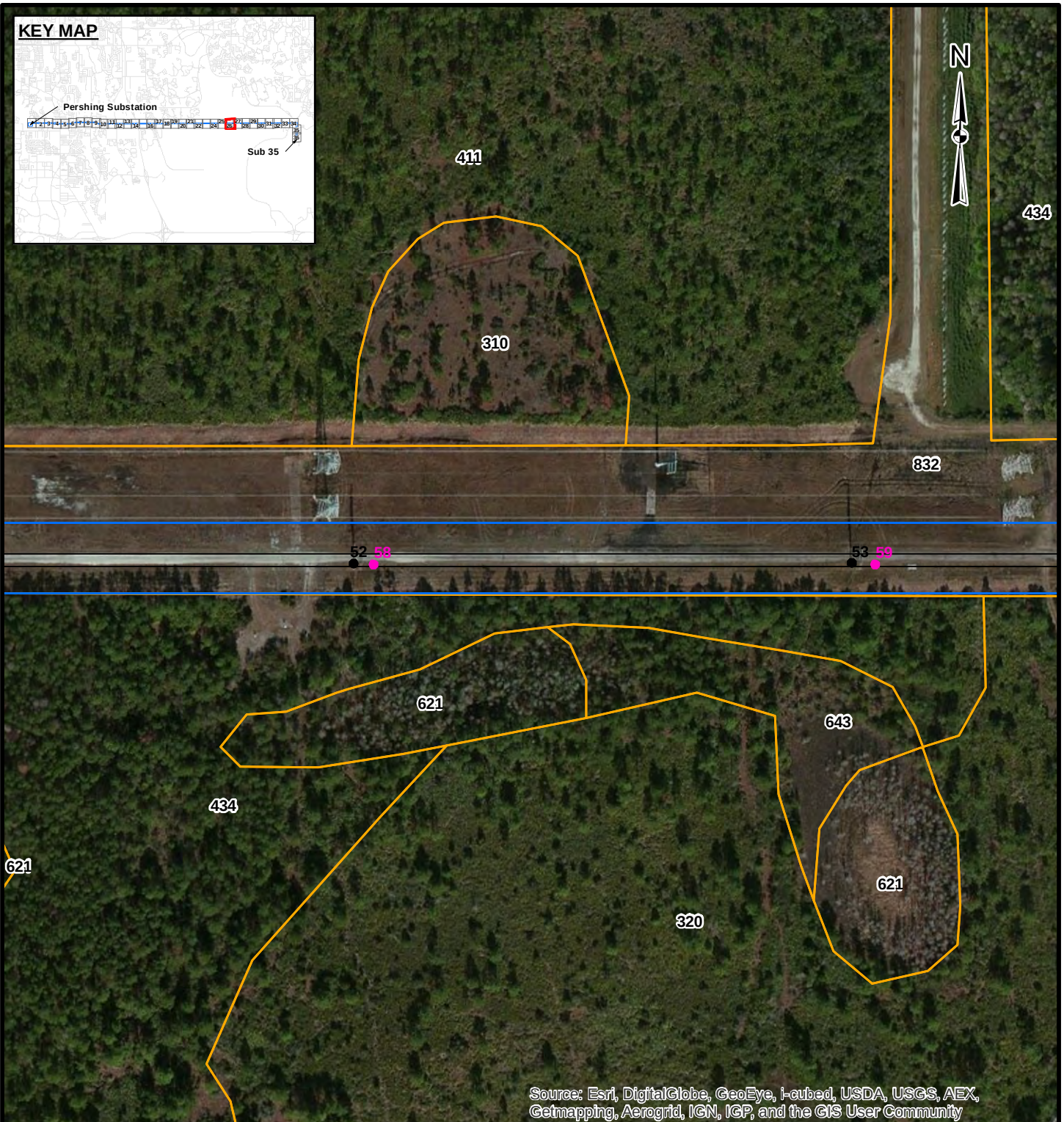
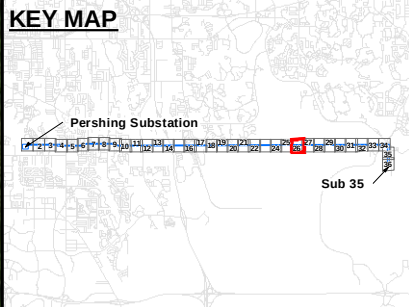
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2. Land Use, SJRWMD, 2009

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

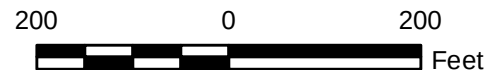
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea
- LandUse
- 310: Herbaceous upland nonforested
- 320: Shrub and brushland (wax myrtle or saw palmetto, occasionally scrub oak)
- 411: Pine flatwoods
- 434: Upland mixed coniferous/hardwood
- 621: Cypress
- 643: Wet prairies
- 832: Electrical power transmission lines

REFERENCES

- Project Area, Substations, SAIC / Golder Associates Inc., 2013
- Land Use, SJRWMD, 2009

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
 Projection: Transverse Mercator
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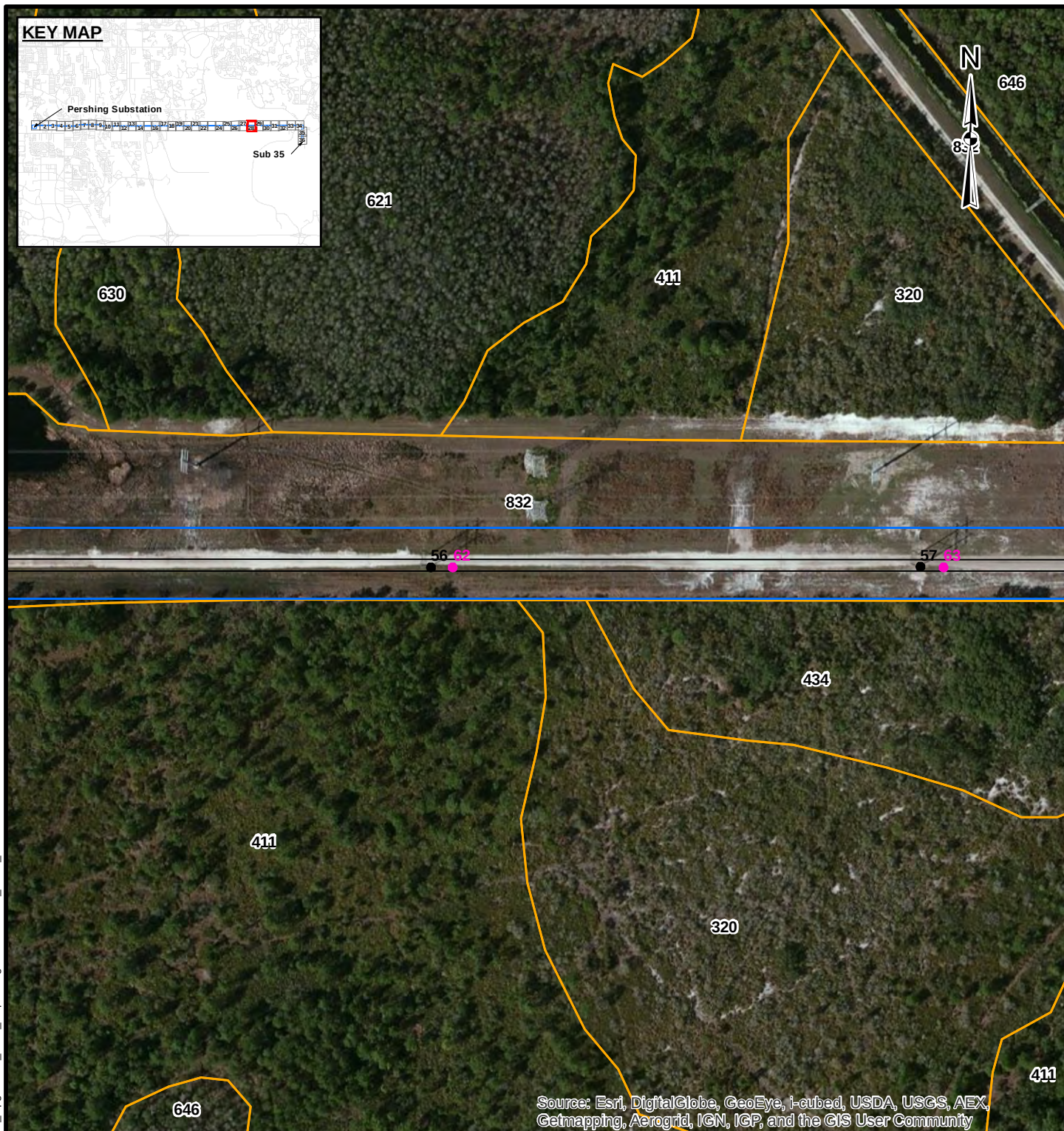
															
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FIGURE: 4
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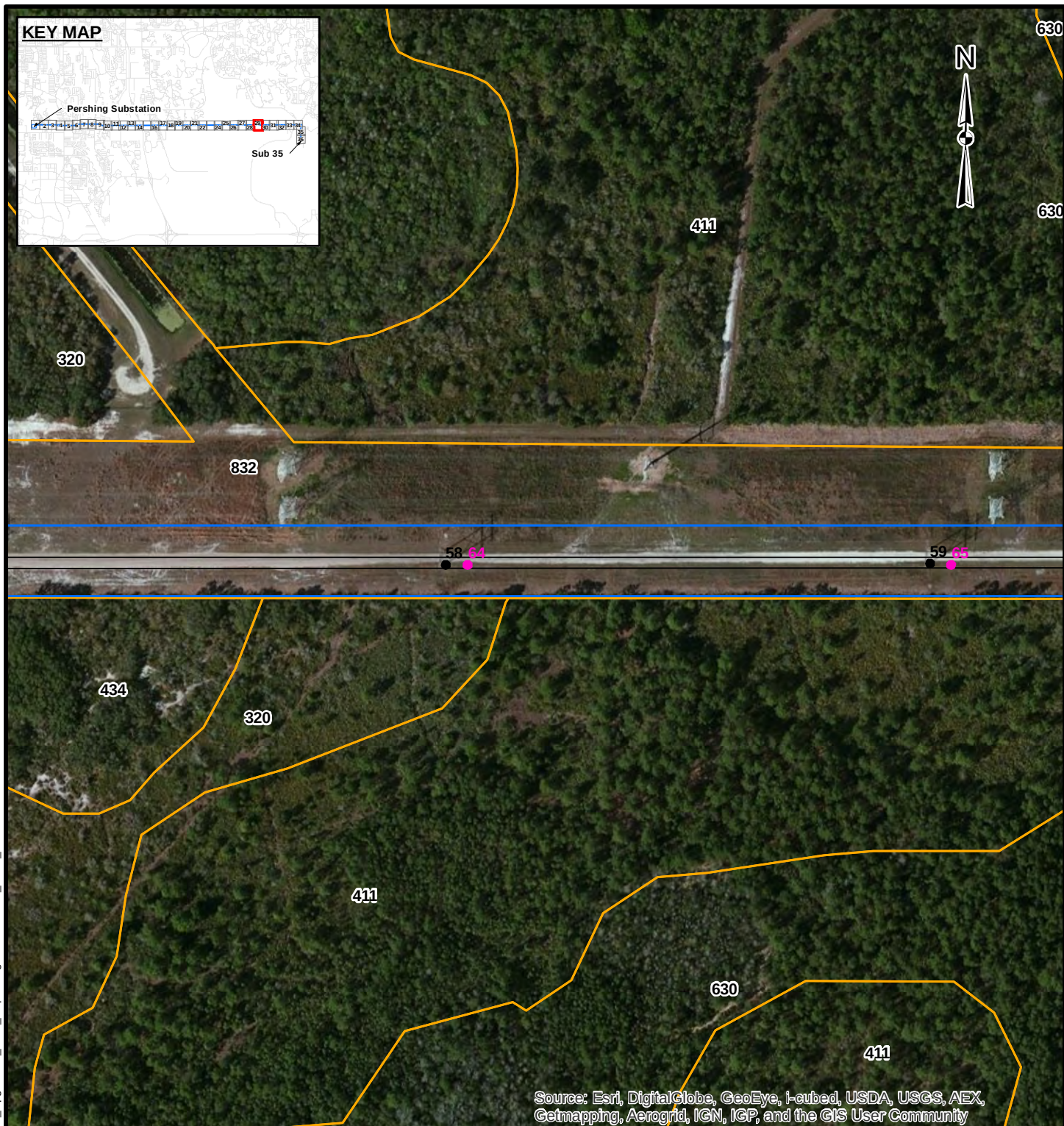
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 - New Structures
 - Transmission Line
 - Project Area
 - Land Use
- 320: Shrub and brushland (wax myrtle or saw palmetto, occasionally scrub oak)
- 411: Pine flatwoods
434: Upland mixed coniferous/hardwood
617: Mixed wetland hardwoods
621: Cypress
630: Wetland forested mixed
646: Mixed scrub-shrub wetland
832: Electrical power transmission lines

REFERENCES

- Project Area, Substations, SAIC / Golder Associates Inc., 2013
- Land Use, SJRWMD, 2009

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983

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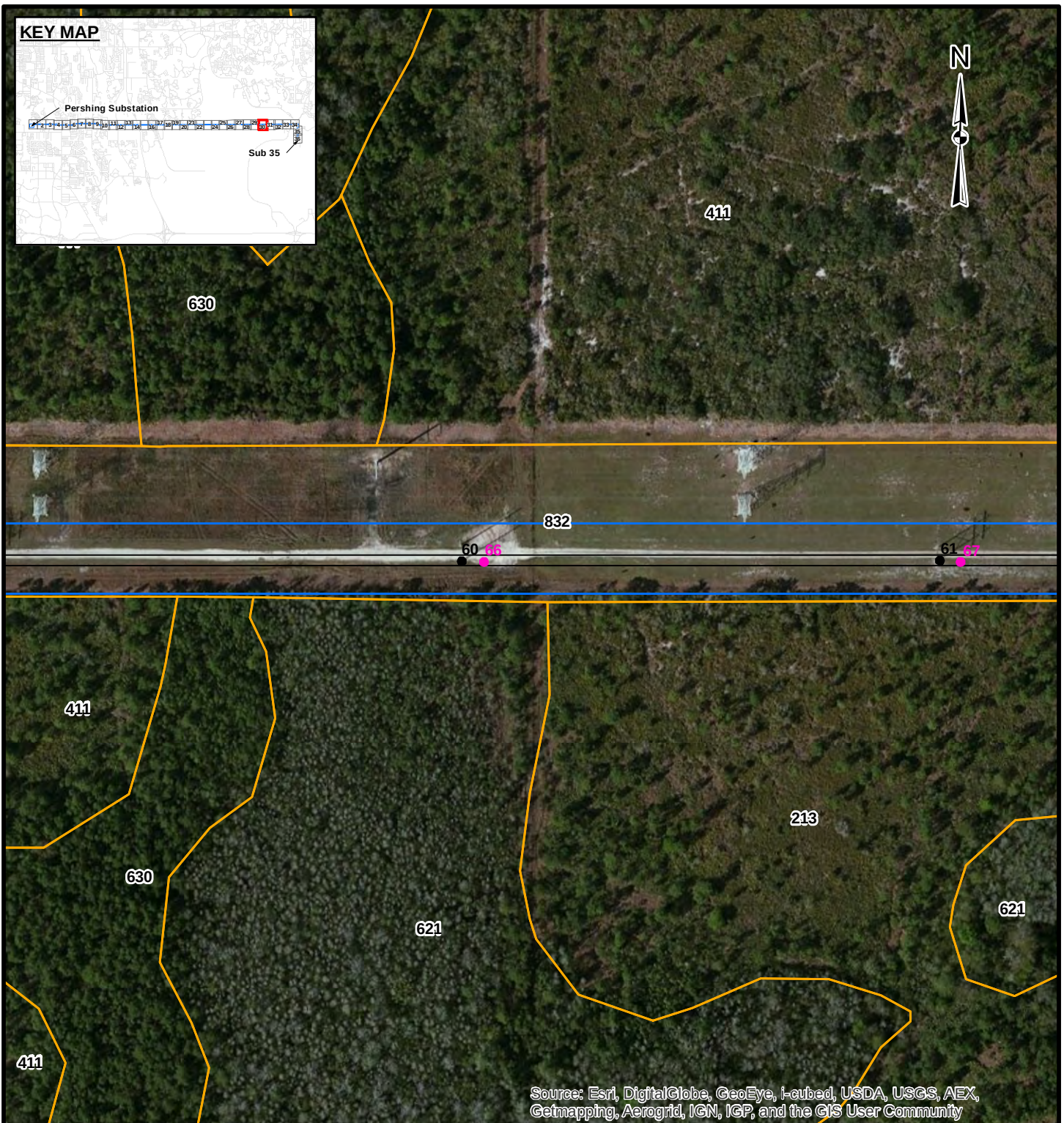
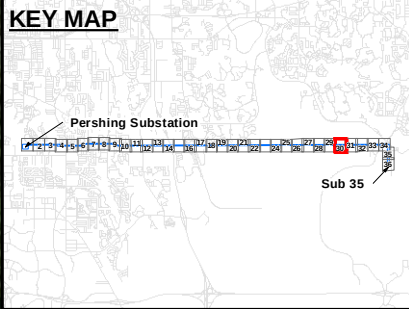
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24 Jan. 2014

FIGURE: 4
Page 29 of 36



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

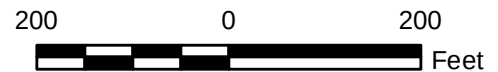
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea
- LandUse
- 213: Woodland pastures
- 411: Pine flatwoods
- 617: Mixed wetland hardwoods
- 621: Cypress
- 630: Wetland forested mixed
- 832: Electrical power transmission lines

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

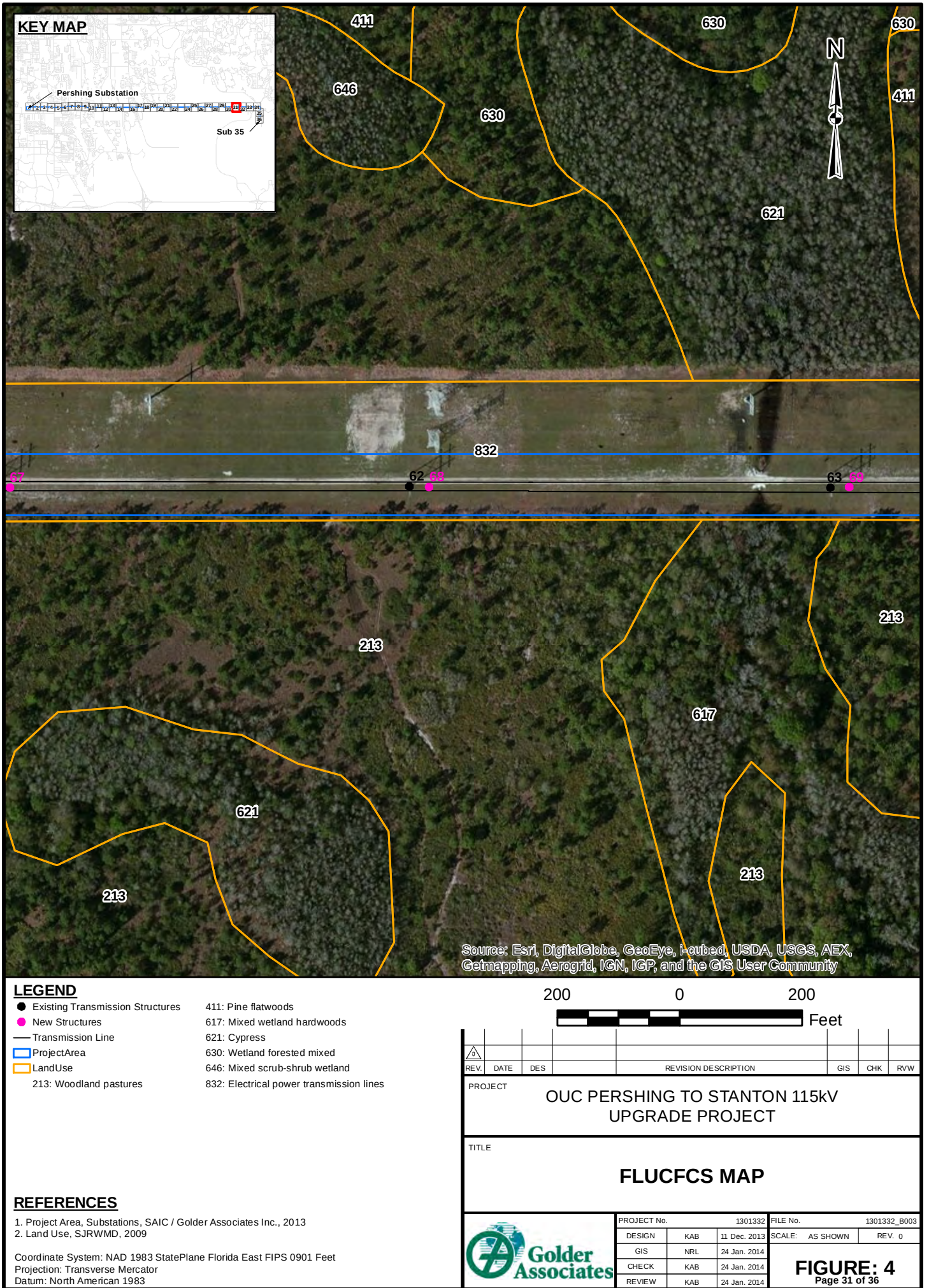
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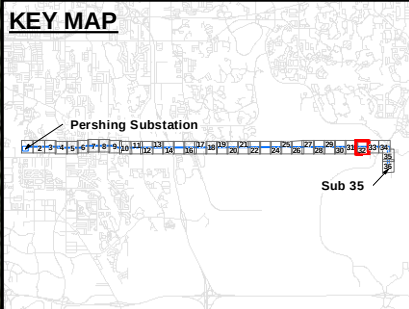


													
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use
- 211: Improved pastures (monocult, planted forage crops)
- 213: Woodland pastures
- 411: Pine flatwoods
- 617: Mixed wetland hardwoods
- 621: Cypress
- 630: Wetland forested mixed
- 832: Electrical power transmission lines

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

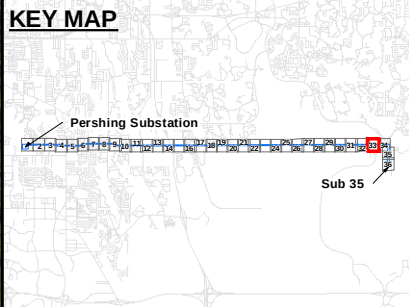
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FIGURE: 4
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use
- 211: Improved pastures (monocult, planted forage crops)
- 213: Woodland pastures
- 411: Pine flatwoods
- 621: Cypress
- 832: Electrical power transmission lines

REFERENCES

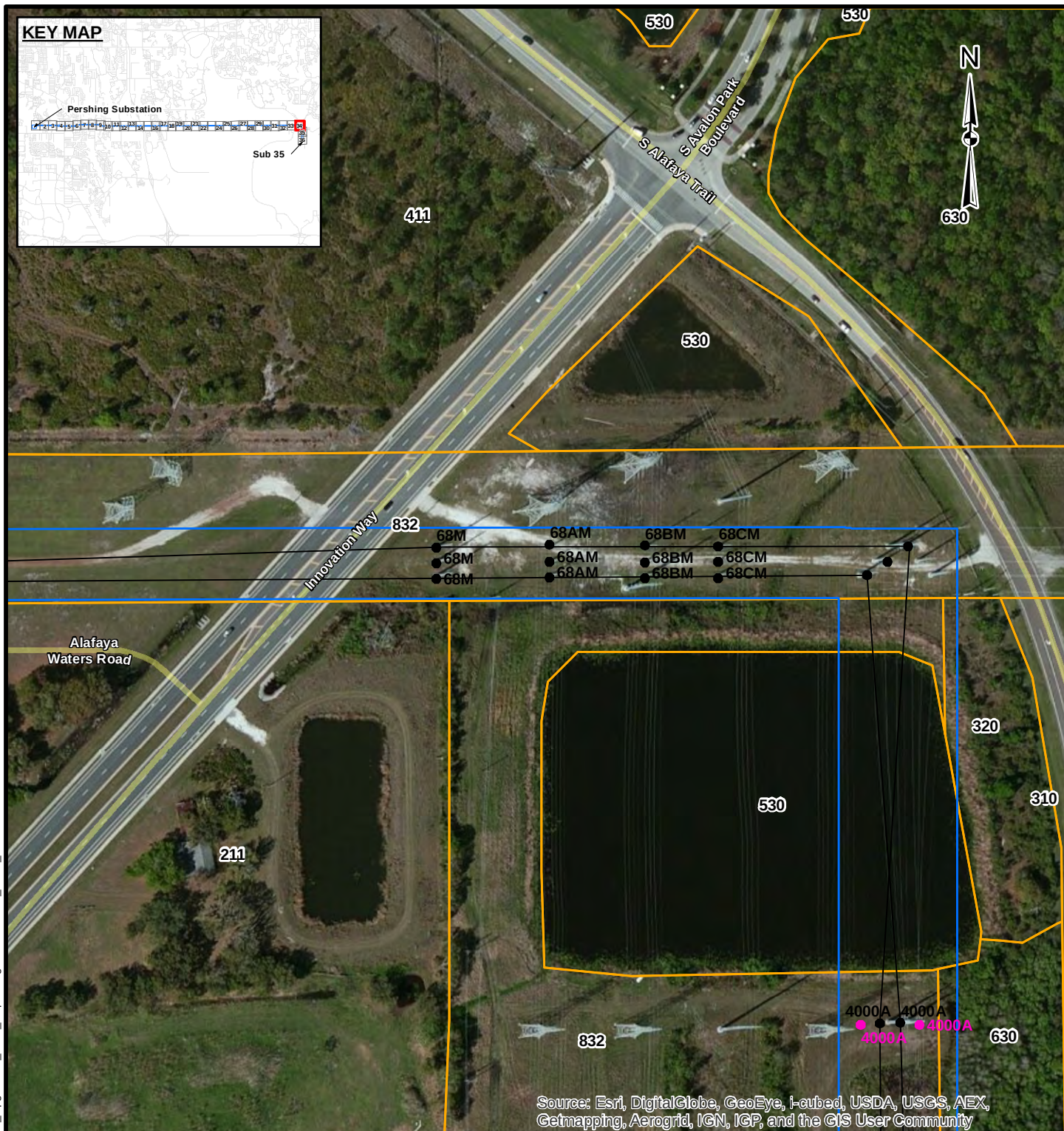
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2. Land Use, SJRWMD, 2009

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Datum: North American 1983

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DESIGN			1301332			
GIS			1301332_B003			
CHECK			SCALE: AS SHOWN			
REVIEW			REV: 0			
Golder Associates			FIGURE: 4			
			Page 33 of 36			

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use
- 211: Improved pastures (monocult, planted forage crops)
- 310: Herbaceous upland nonforested

- 320: Shrub and brushland (wax myrtle or saw palmetto, occasionally scrub oak)
- 411: Pine flatwoods
- 530: Reservoirs - pits, retention ponds, dams
- 630: Wetland forested mixed
- 832: Electrical power transmission lines

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

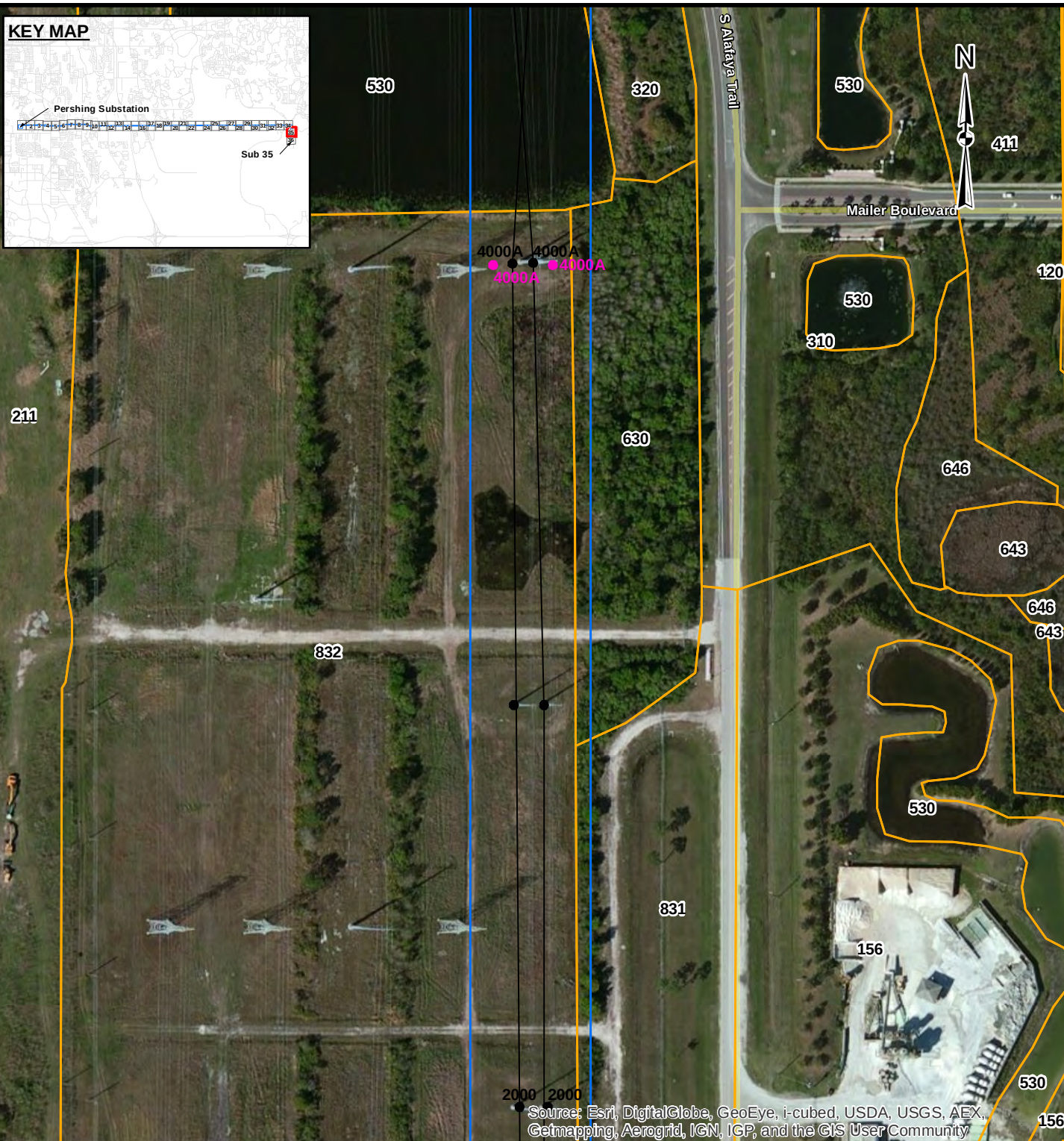
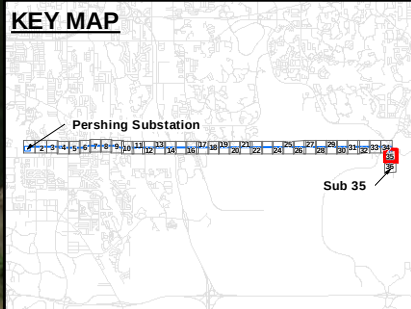
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PROJECT										
OUC PERSHING TO STANTON 115kV UPGRADE PROJECT										
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FIGURE: 4 Page 34 of 36										



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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use
- 120: Residential, medium density - 2-5 dwelling units/acre
- 156: Pre-stressed concrete plants (includes 1564)
- 211: Improved pastures (monocult, planted forage crops)
- 310: Herbaceous upland nonforested

- 320: Shrub and brushland (wax myrtle or saw palmetto, occasionally scrub oak)
- 411: Pine flatwoods
- 530: Reservoirs - pits, retention ponds, dams
- 630: Wetland forested mixed
- 643: Wet prairies
- 646: Mixed scrub-shrub wetland
- 831: Electrical power facilities
- 832: Electrical power transmission lines

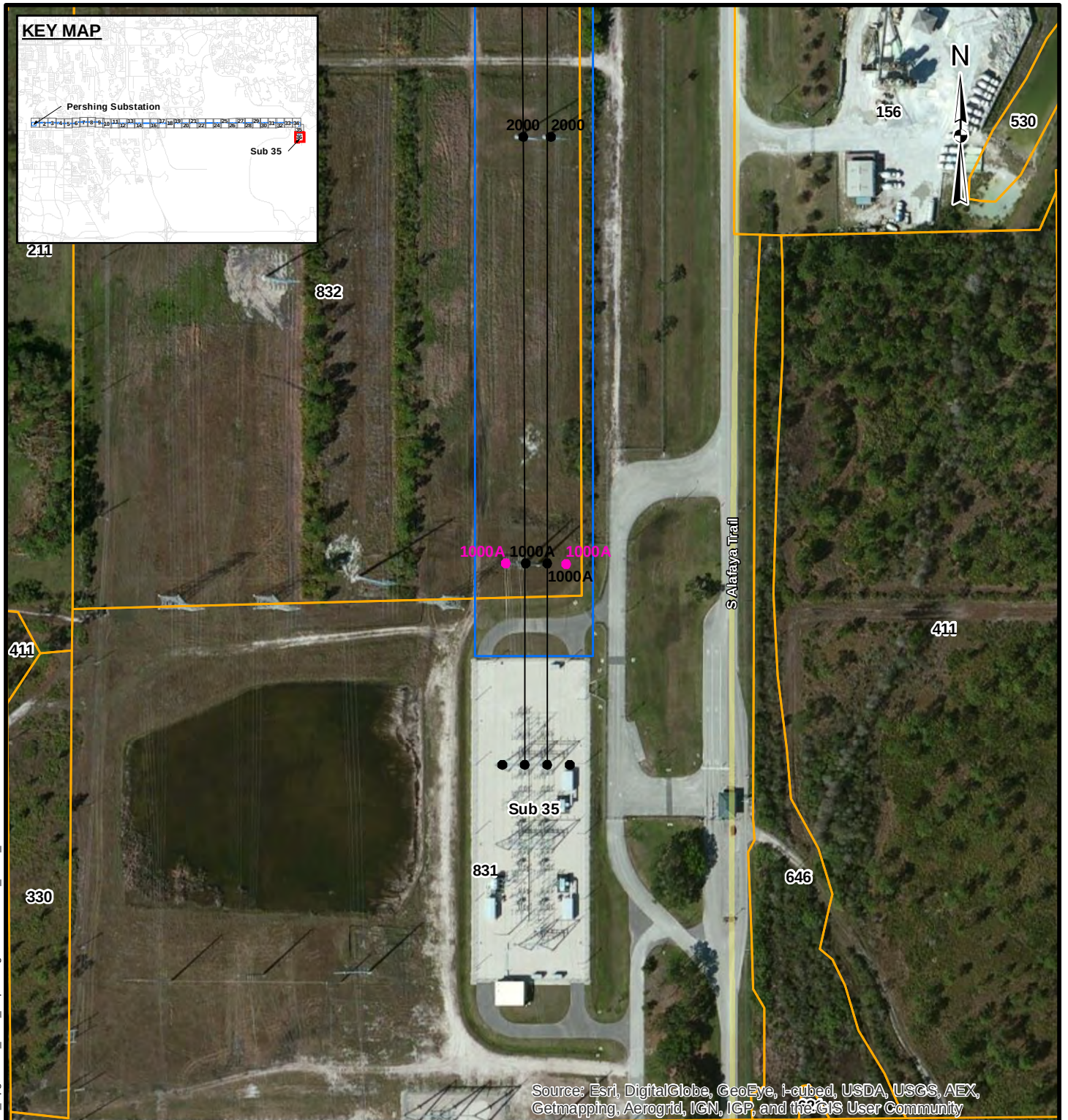
REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

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Projection: Transverse Mercator
Datum: North American 1983

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			FIGURE: 4 Page 35 of 36			

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Land Use
- 156: Pre-stressed concrete plants (Includes 1564)
- 211: Improved pastures (monocult, planted forage crops)

- 330: Mixed upland nonforested
- 411: Pine flatwoods
- 530: Reservoirs - pits, retention ponds, dams
- 621: Cypress
- 646: Mixed scrub-shrub wetland
- 831: Electrical power facilities
- 832: Electrical power transmission lines

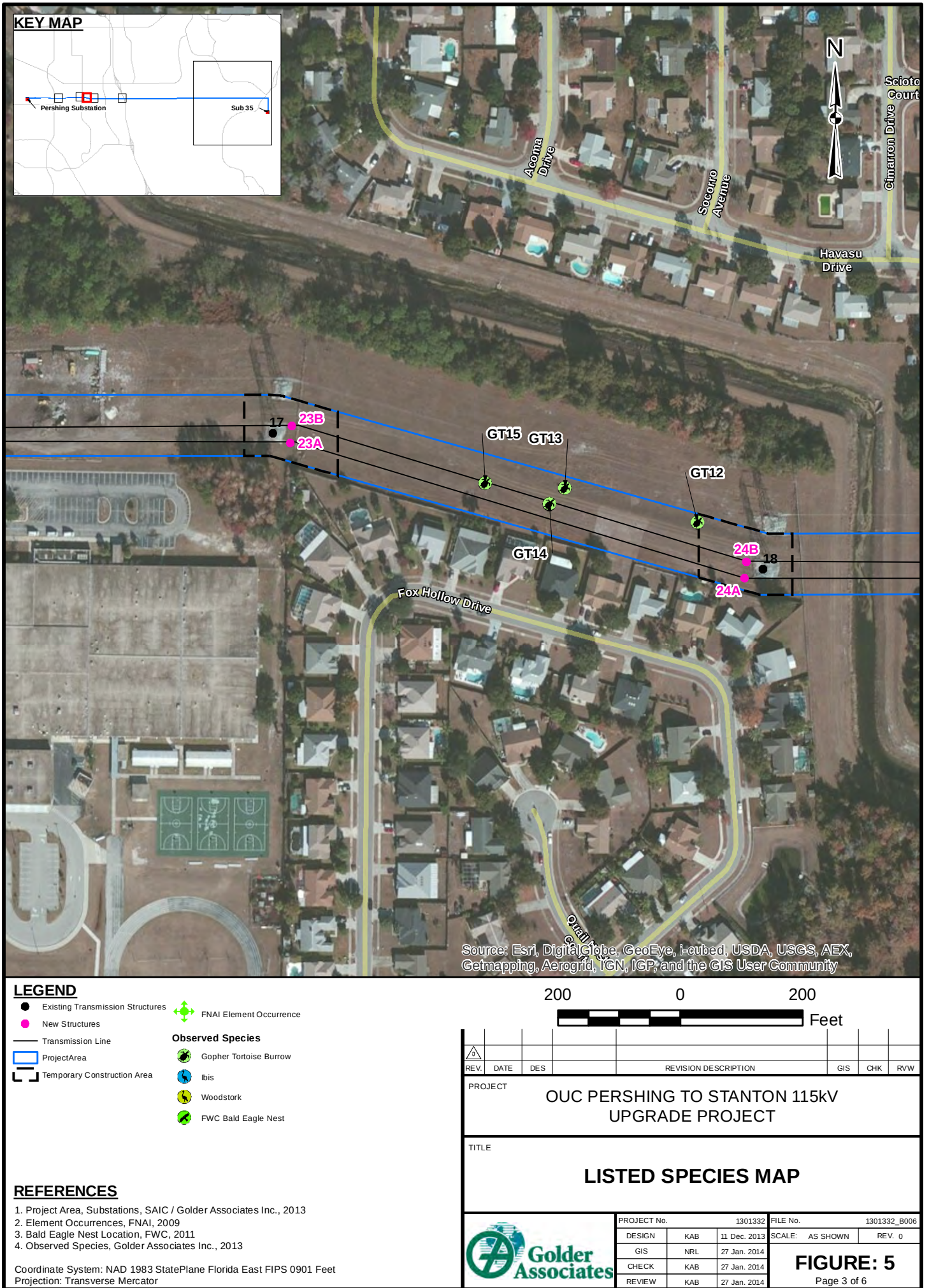
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1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Land Use, SJRWMD, 2009

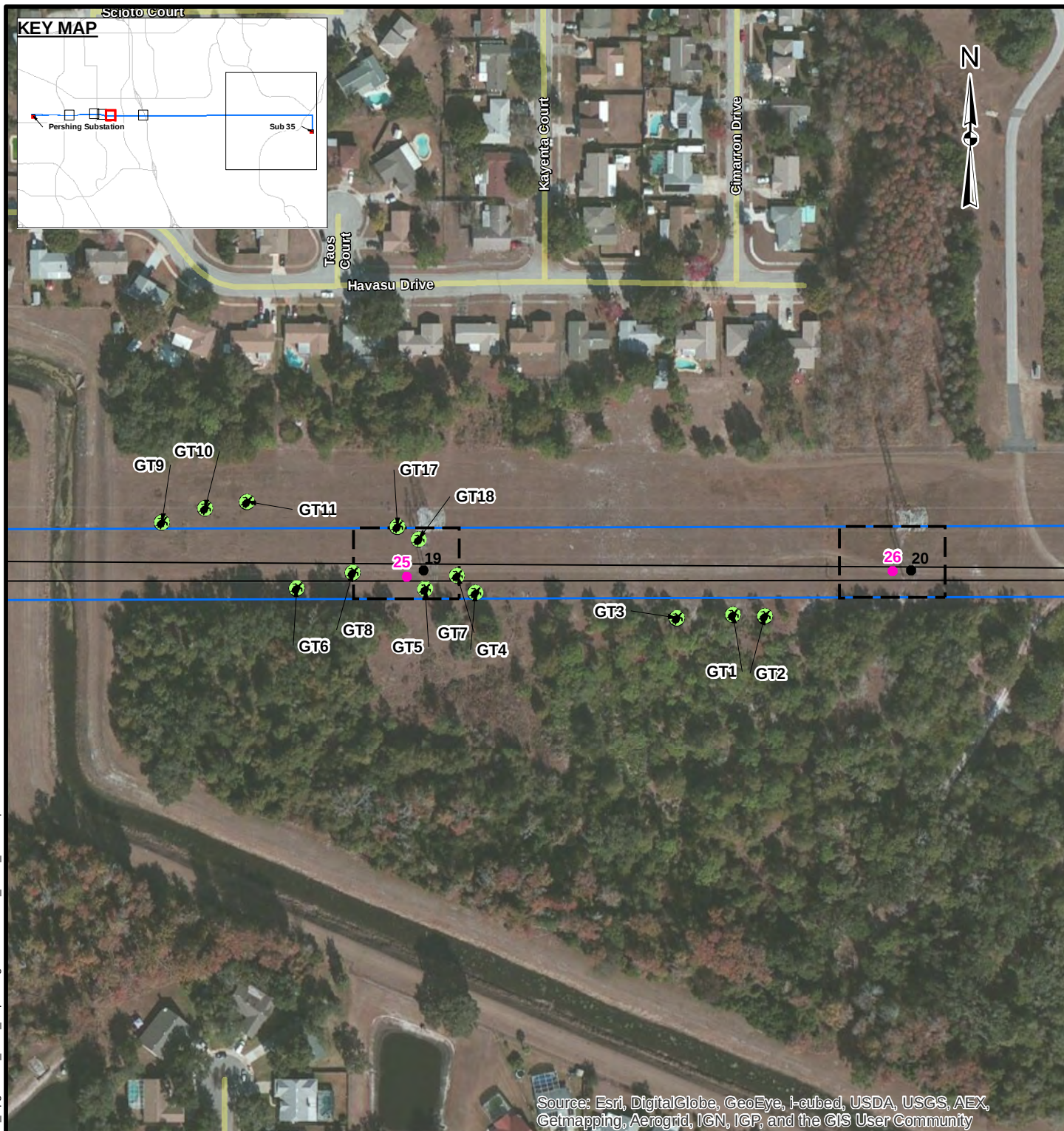
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						FIGURE: 4	
						Page 36 of 36	

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- FNAI Element Occurrence
- Observed Species
 - Gopher Tortoise Burrow
 - Ibis
 - Woodstork
 - FWC Bald Eagle Nest

REFERENCES

- Project Area, Substations, SAIC / Golder Associates Inc., 2013
- Element Occurrences, FNAI, 2009
- Bald Eagle Nest Location, FWC, 2011
- Observed Species, Golder Associates Inc., 2013

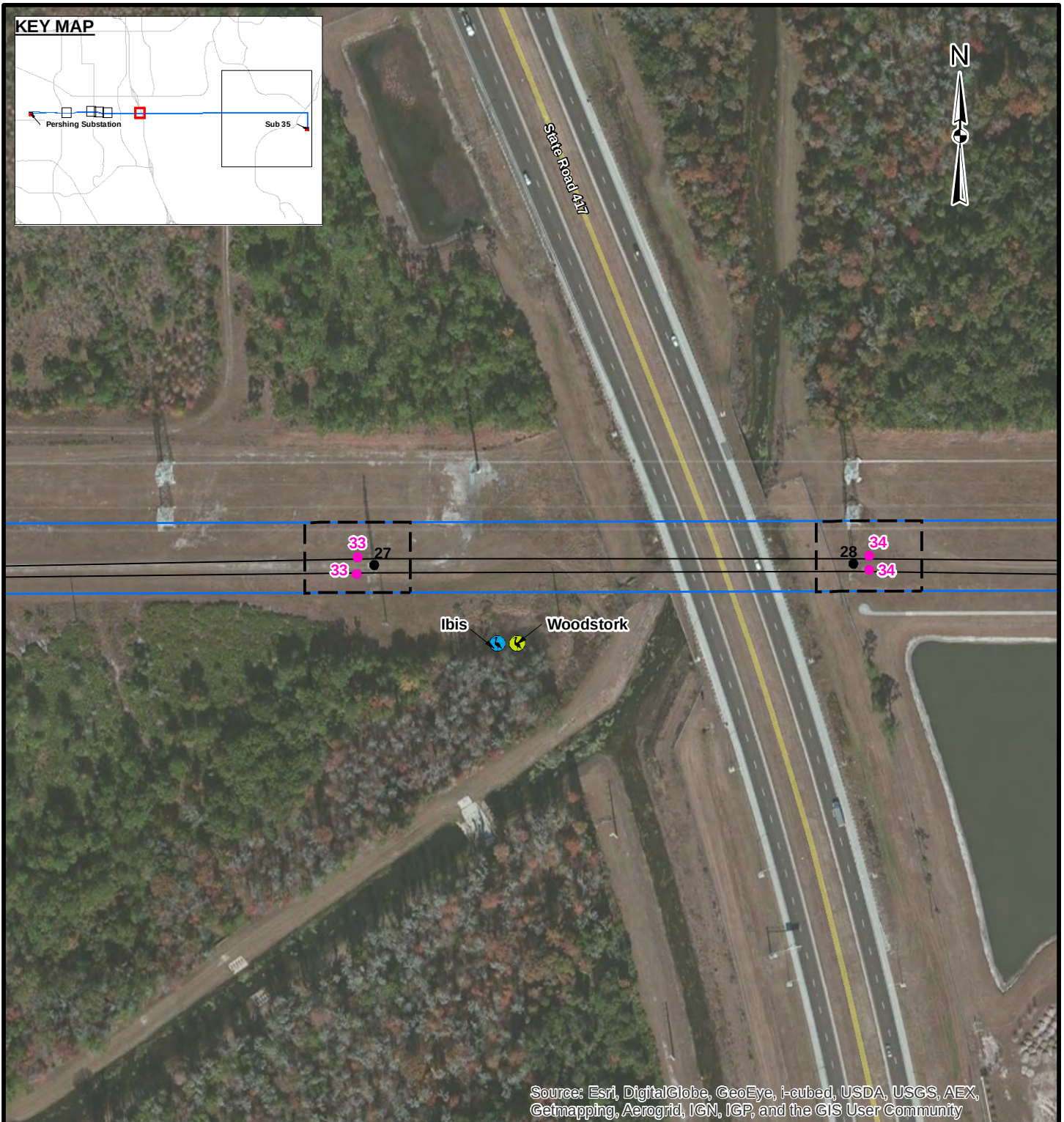
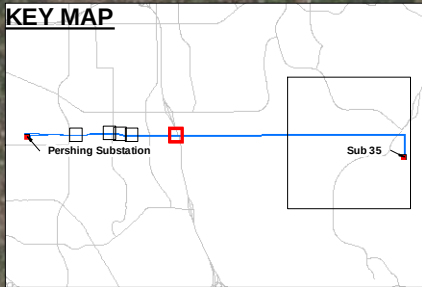
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OUC PERSHING TO STANTON 115kV UPGRADE PROJECT						
TITLE						
LISTED SPECIES MAP						
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NRL			REV. 0			
CHECK			27 Jan. 2014			
KAB			27 Jan. 2014			
REVIEW			27 Jan. 2014			
KAB			27 Jan. 2014			



FIGURE: 5
Page 4 of 6



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

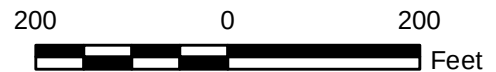
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ◆ FNAI Element Occurrence
- Observed Species
 - Gopher Tortoise Burrow
 - Ibis
 - Woodstork
 - FWC Bald Eagle Nest

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Element Occurrences, FNAI, 2009
3. Bald Eagle Nest Location, FWC, 2011
4. Observed Species, Golder Associates Inc., 2013

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator

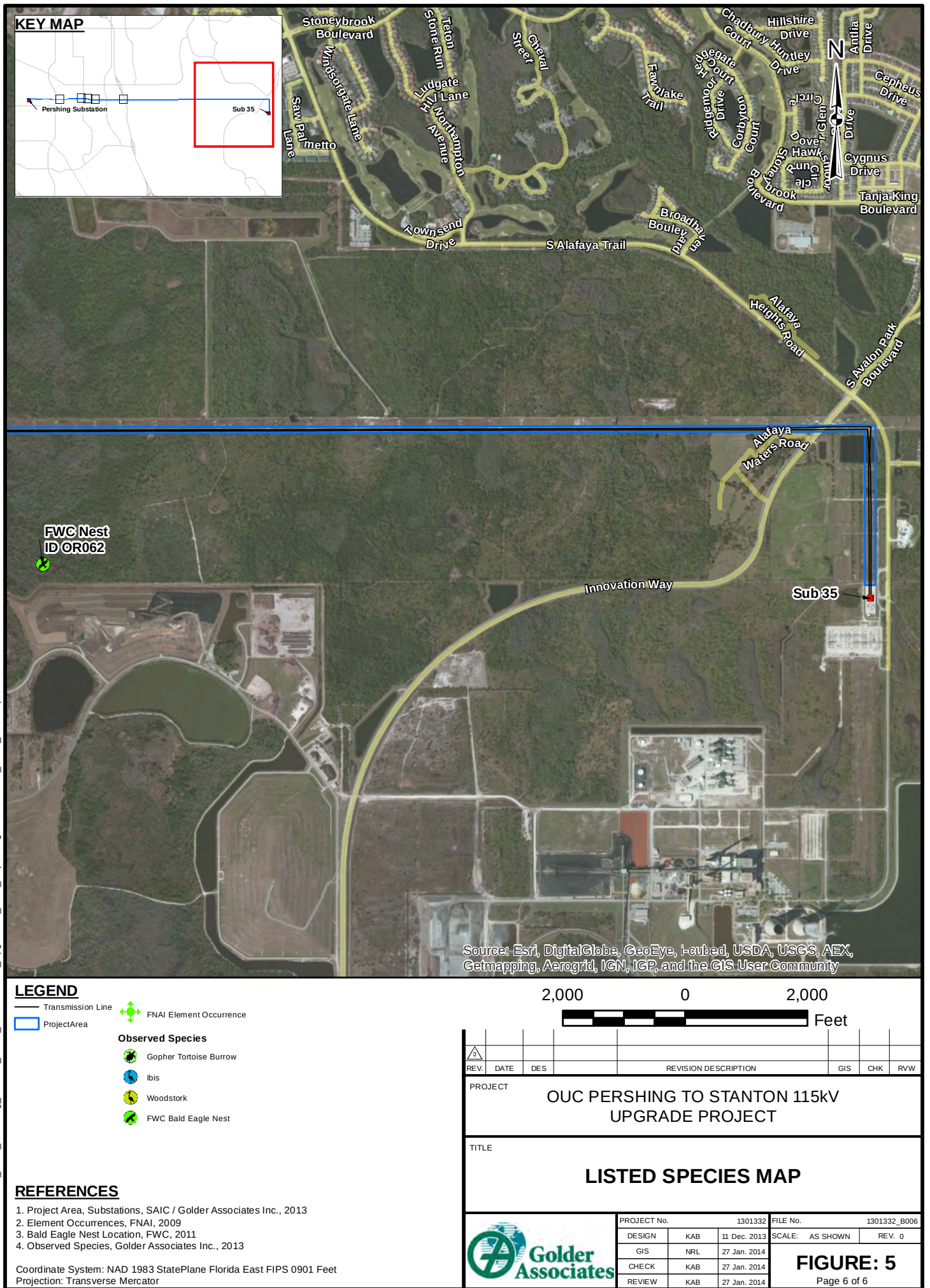


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TITLE						
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REVIEW	KAB	27 Jan. 2014				



FIGURE: 5
Page 5 of 6

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ATTACHMENT B
CONSTRUCTION DRAWINGS

NORTH OUC RIGHT-OF-WAY LINE

N

220 ft

56 ft

100 ft

12 ft

32 ft

EXISTING H-FRAME
STRUCTURE
(TO BE REMOVED)

EXISTING 12 ft. ROAD

DISTANCE
VARIES

NEW MONOPOLE
TRANSMISSION STRUCTURE

150 ft

SOUTH OUC RIGHT-OF-WAY LINE

LEGEND

 TEMPORARY CONSTRUCTION MATTING WHERE
NECESSARY IN WETLANDS (0.30 ACRES MAXIMUM)

REFERENCES

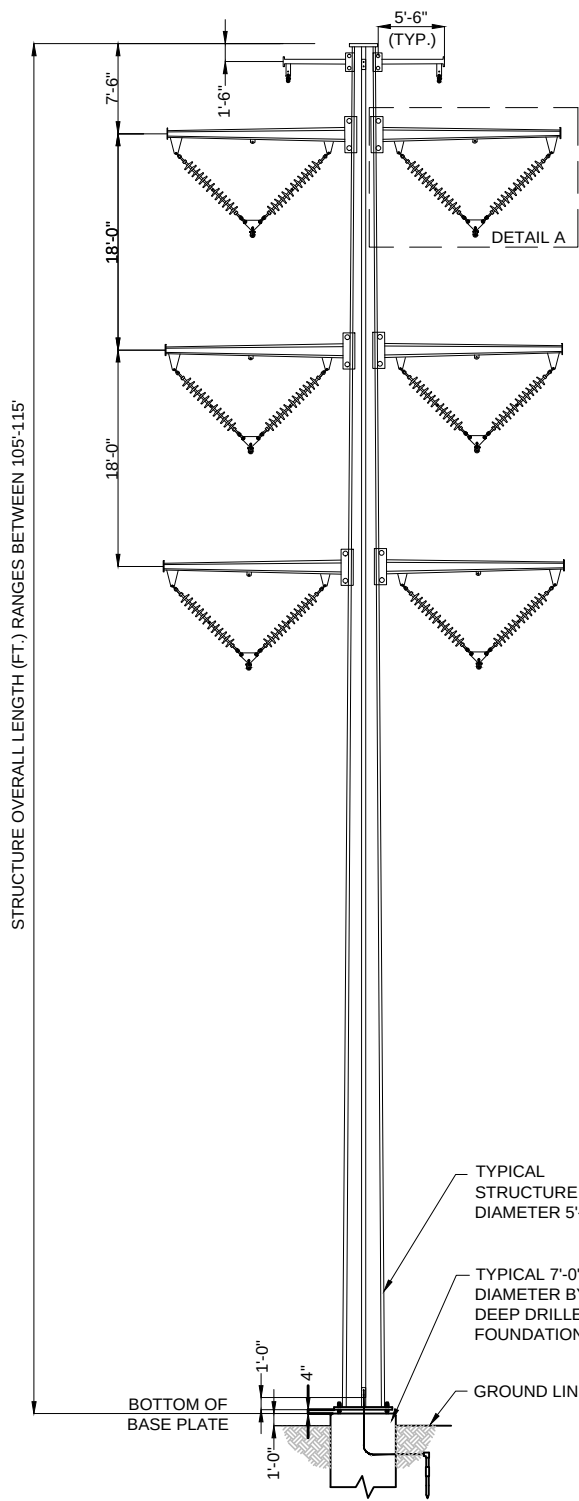
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Feet

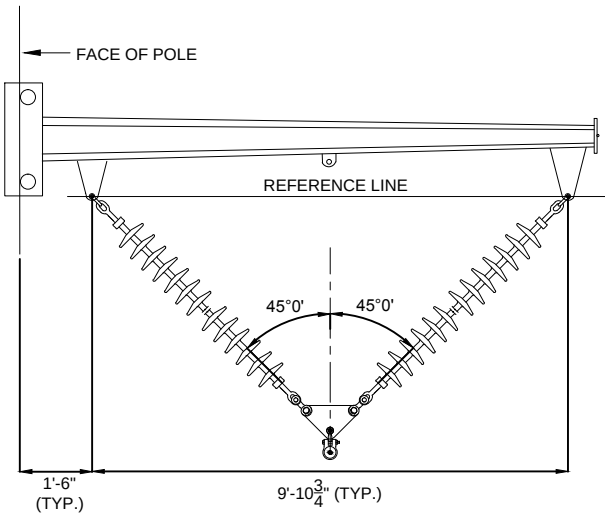
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OUC PERSHING TO STANTON 115kV UPGRADE PROJECT						
TITLE						
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DESIGN KAB 14 Jan. 2014				SCALE: AS SHOWN REV. 0		
GIS NRL 24 Jan. 2014				ATTACHMENT B FIGURE 1		
CHECK KAB 24 Jan. 2014						
REVIEW KAB 24 Jan. 2014						
						

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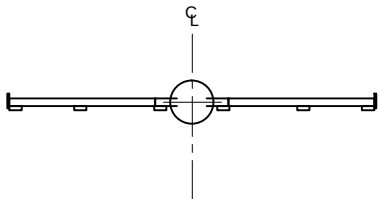
TYPICAL PROPOSED
TANGENT STRUCTURE



FRONT ELEVATION
SCALE:NTS



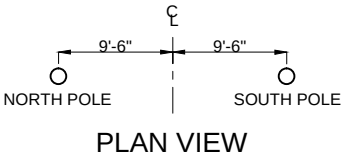
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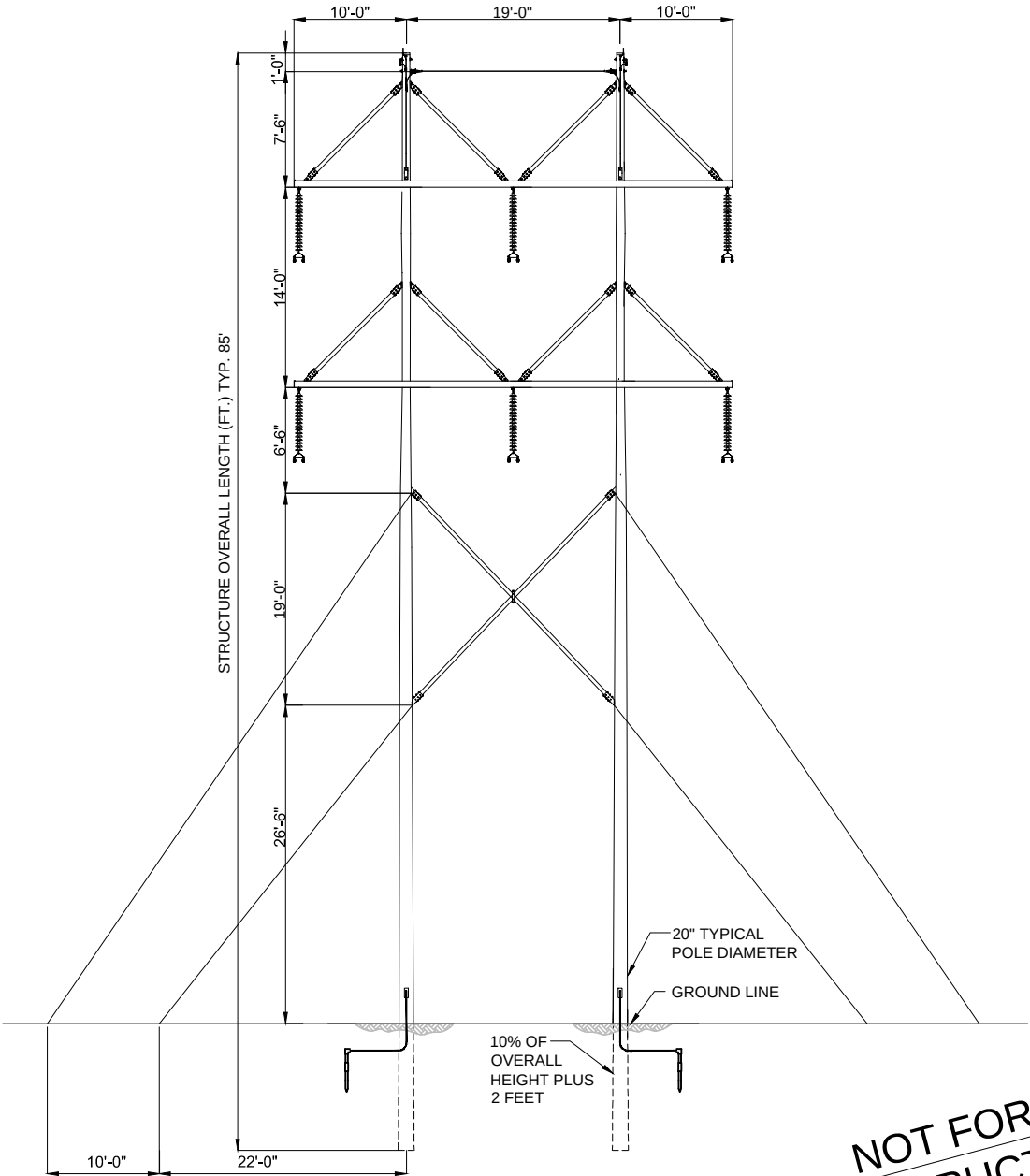
PLAN VIEW

NOTE:
CENTER LINE FOR PROPOSED STRUCTURE
WILL LINE UP WITH THE SOUTH POLE OF
THE EXISTING H-FRAME.

TYPICAL EXISTING
TANGENT STRUCTURE



PLAN VIEW



FRONT ELEVATION
(LOOKING EAST)
SCALE:NTS

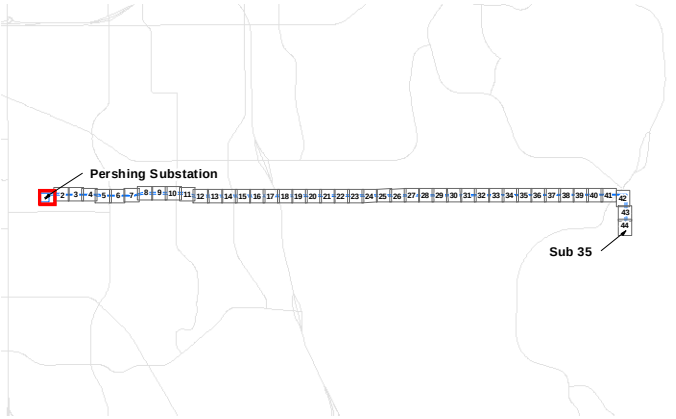
**NOT FOR
CONSTRUCTION**

G:\PROJECTS\OUC\130_1332_Pershing_Stanton_North_Transmission_Upgrade\B_ERP_Report\Figures\1301332_B010_TempImpactMap.mxd



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

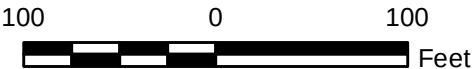


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

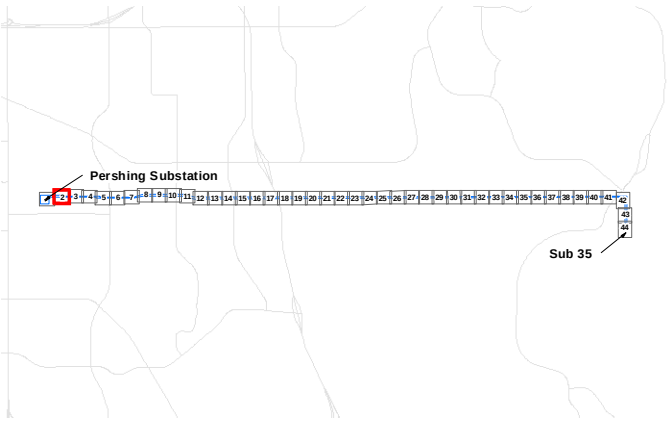
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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	REVIEW	KAB	27 Jan. 2014		



KEY MAP

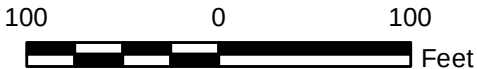


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ ProjectArea
- ▭ Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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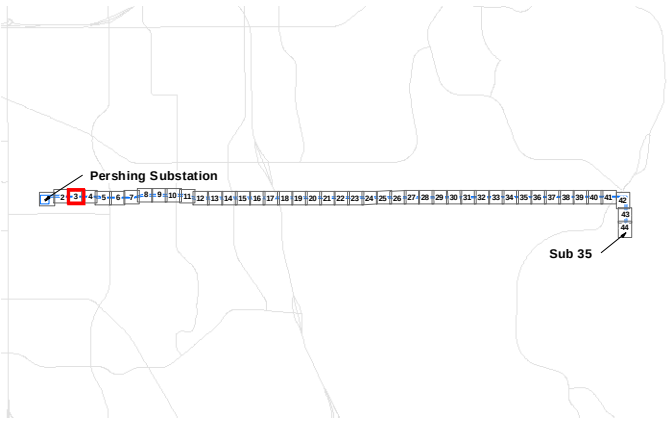
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	CHECK	KAB	27 Jan. 2014		
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

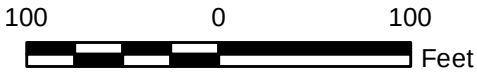


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



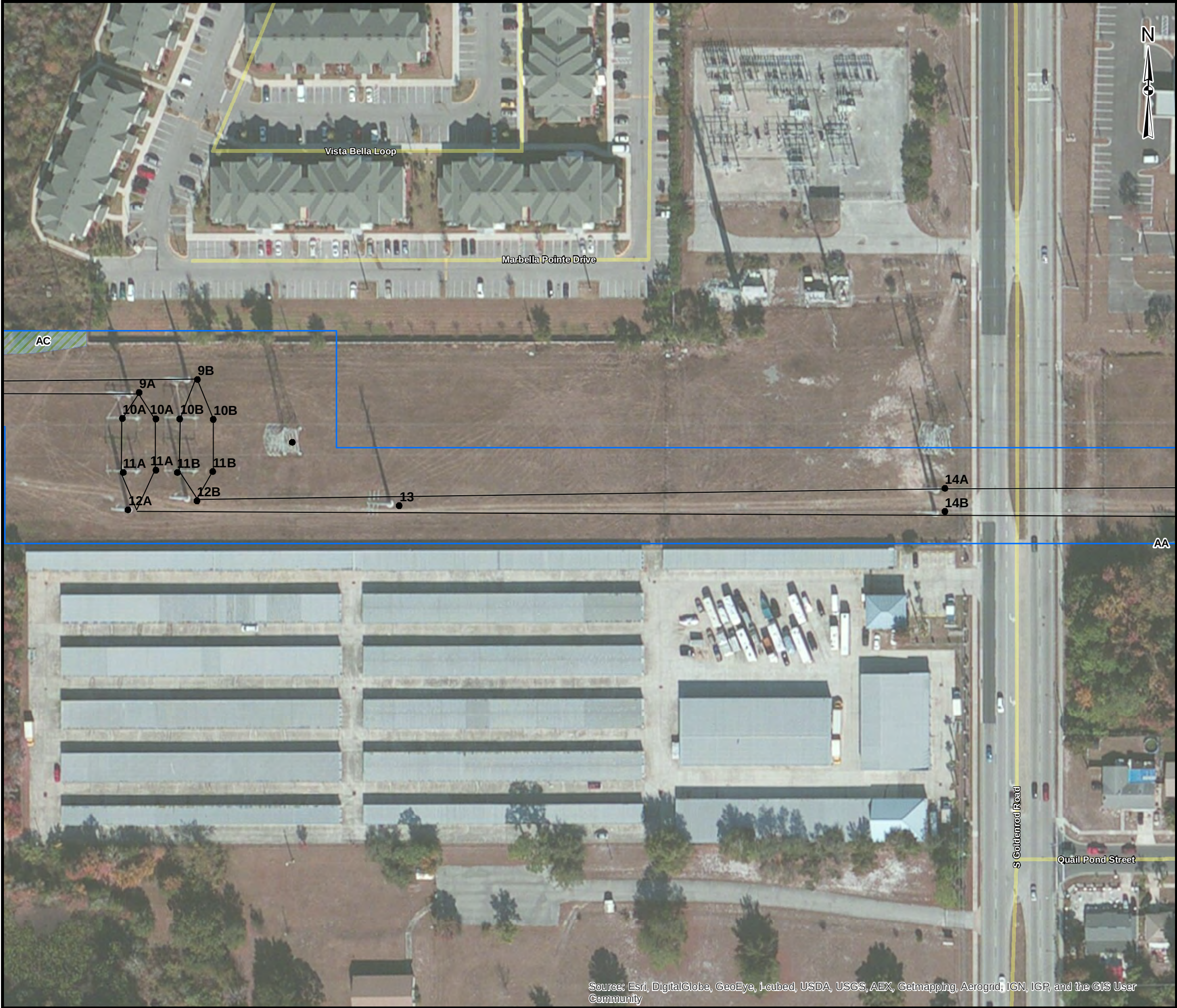
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PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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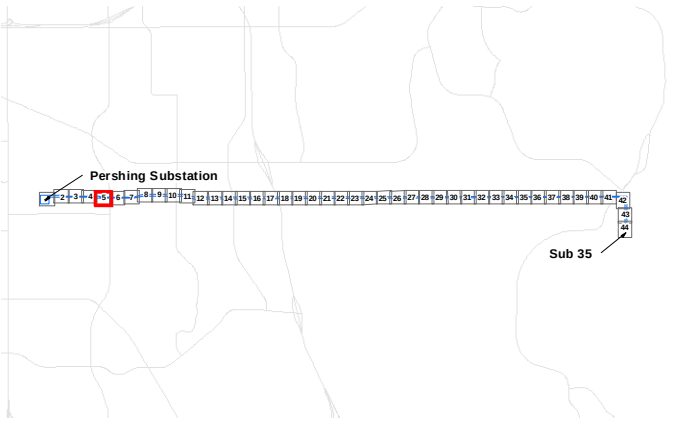
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

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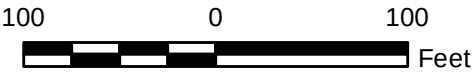


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



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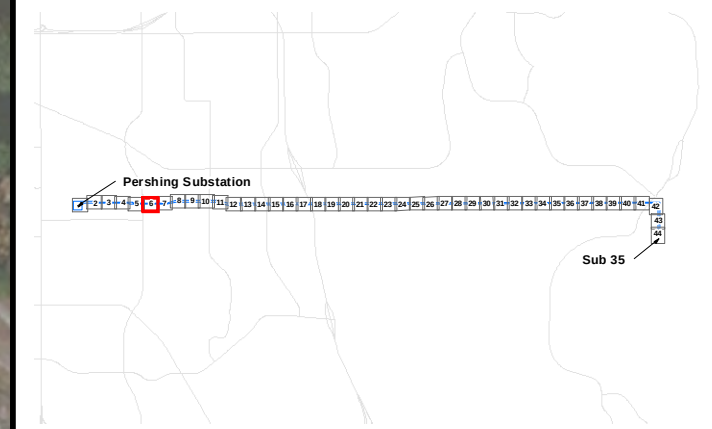
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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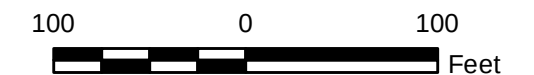


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- ▤ Temporary Construction Area
- ▨ Wetlands
- ▧ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
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KEY MAP

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ Project Area
- ▭ Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet

1000

0

100

Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT

OUC PERSHING TO STANTON 115KV
UPGRADE PROJECT

TITLE

TEMPORARY CONSTRUCTION
AREA PLAN

PROJECT NO. 130-1332			FILE No. 1301332_B010	
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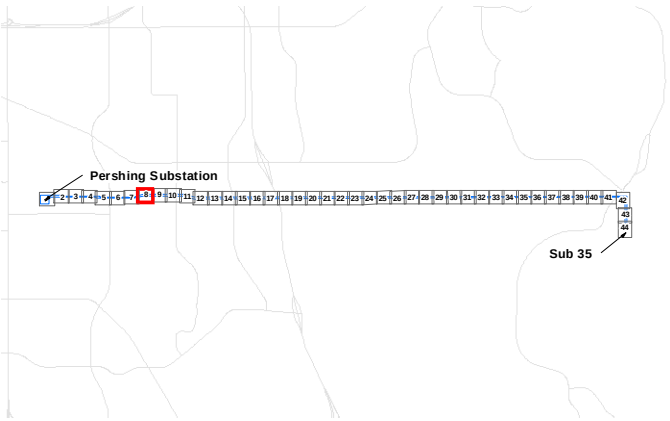
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

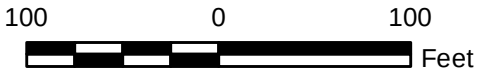


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ ProjectArea
- ▭ Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

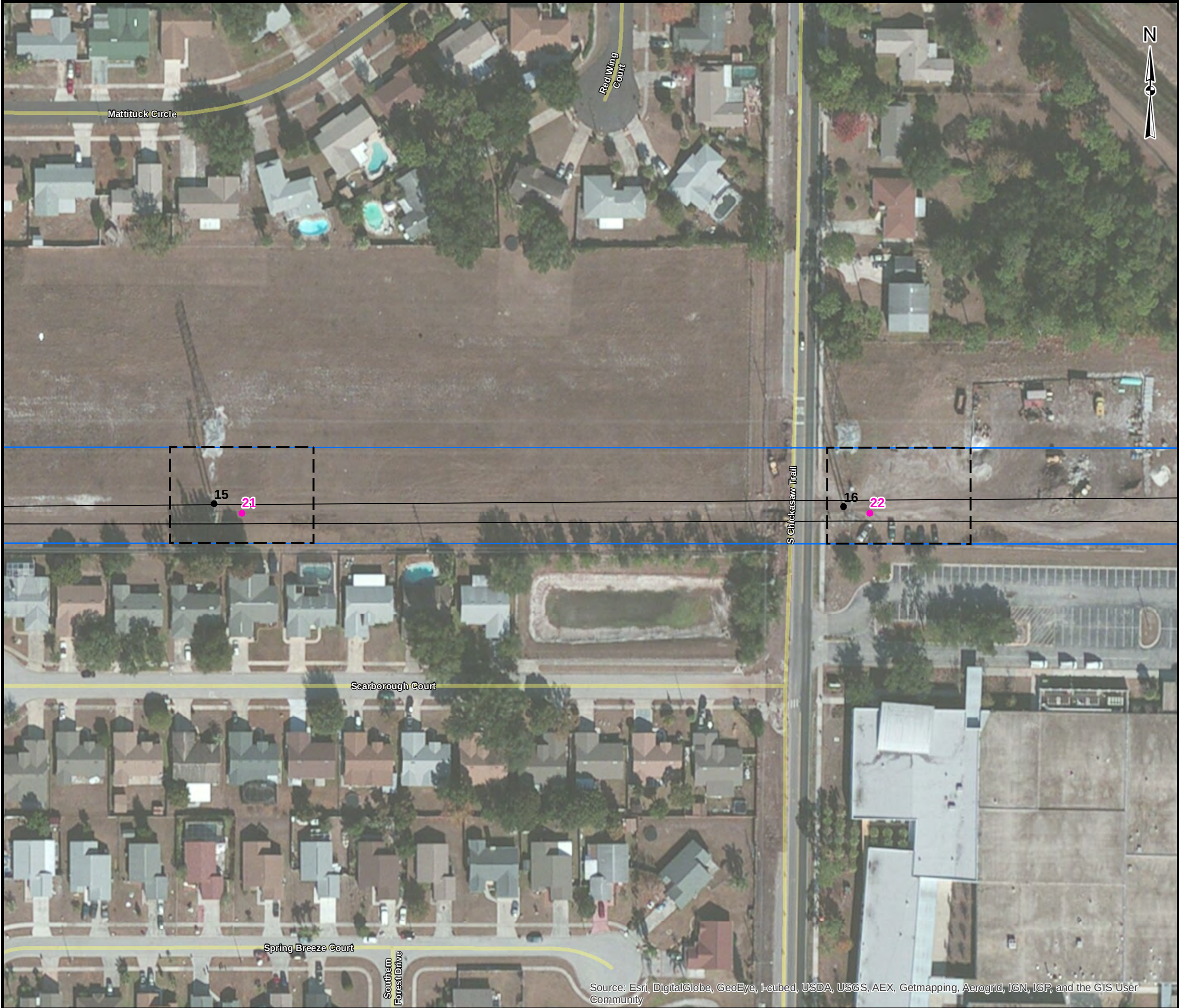
1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



										
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TITLE										
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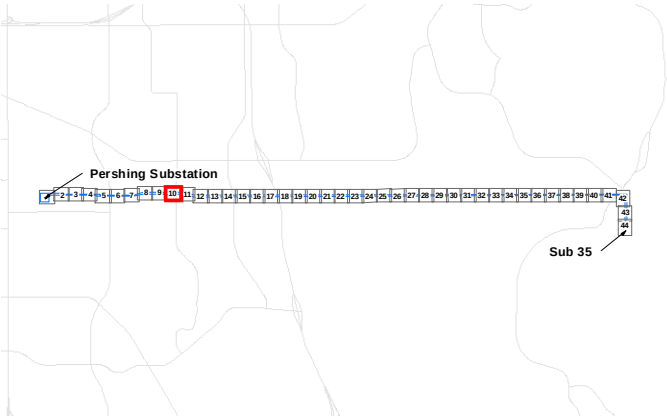


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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

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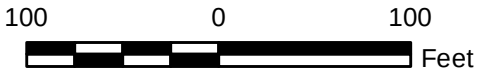


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ ProjectArea
- ▭ Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



												
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OUC PERSHING TO STANTON 115KV UPGRADE PROJECT												
TITLE												
TEMPORARY CONSTRUCTION AREA PLAN												
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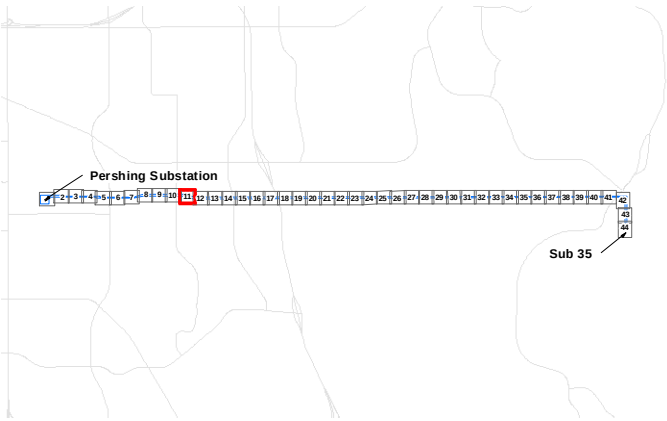


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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

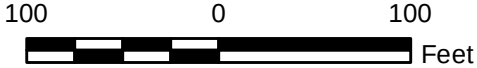


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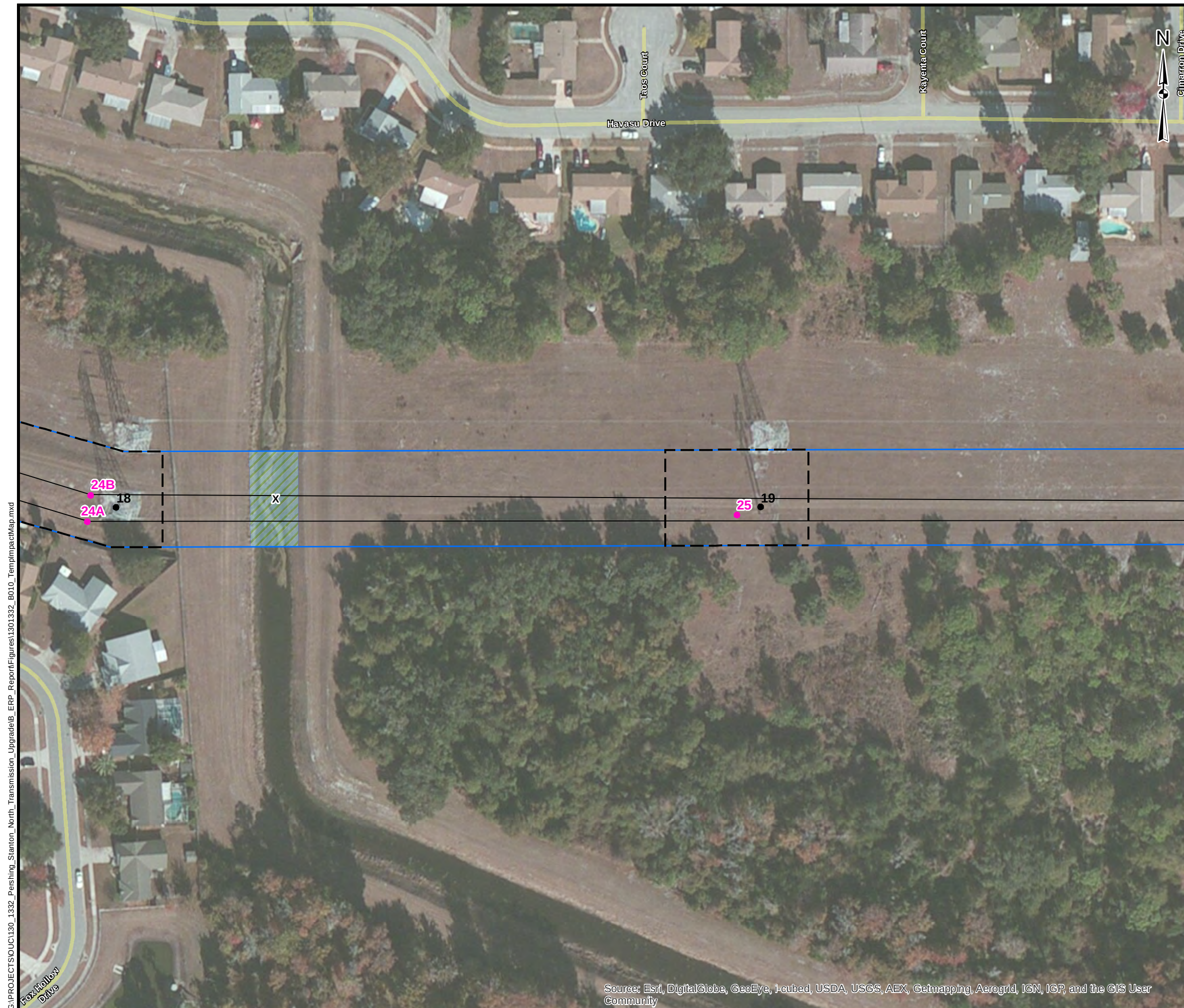
- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ Project Area
- ▭ Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

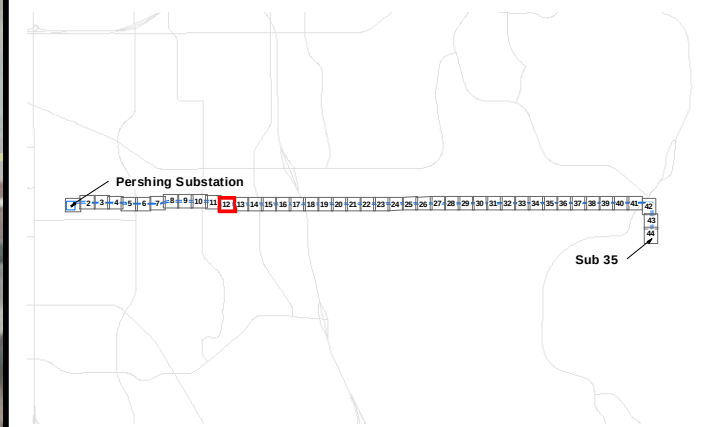
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 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



												
REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	RVW		
PROJECT												
OUC PERSHING TO STANTON 115KV UPGRADE PROJECT												
TITLE												
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KEY MAP

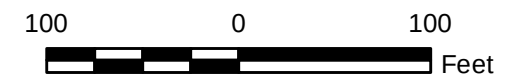


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea
- ▤ Temporary Construction Area
- ▨ Wetlands
- ▧ Temporary Wetland Impacts

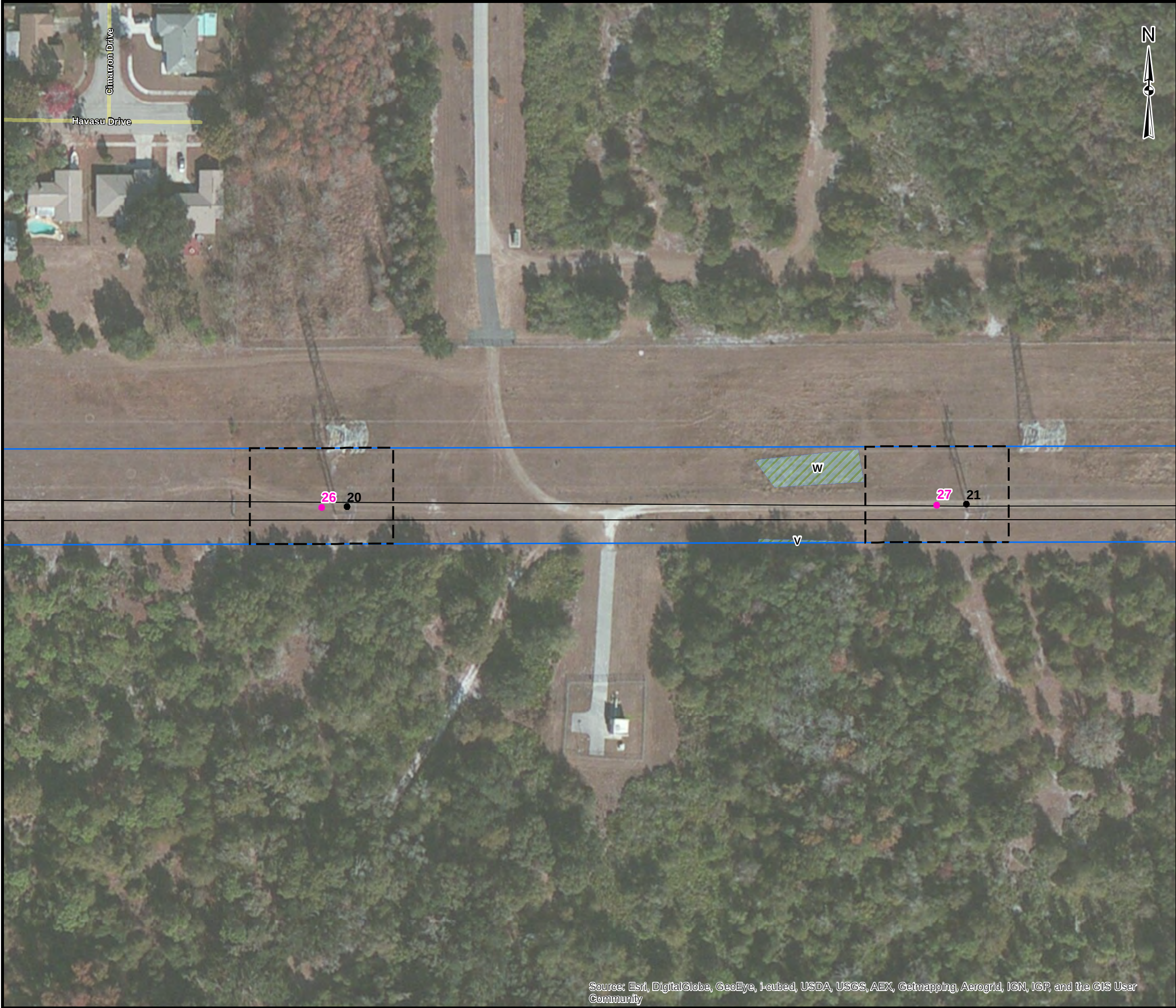
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2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



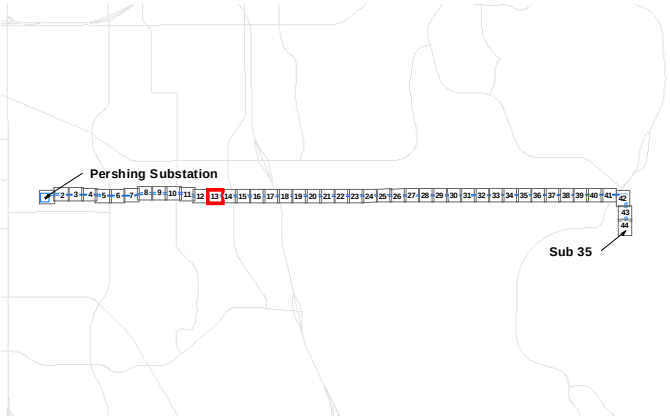
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

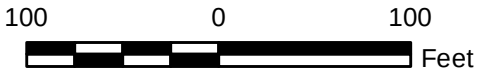


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



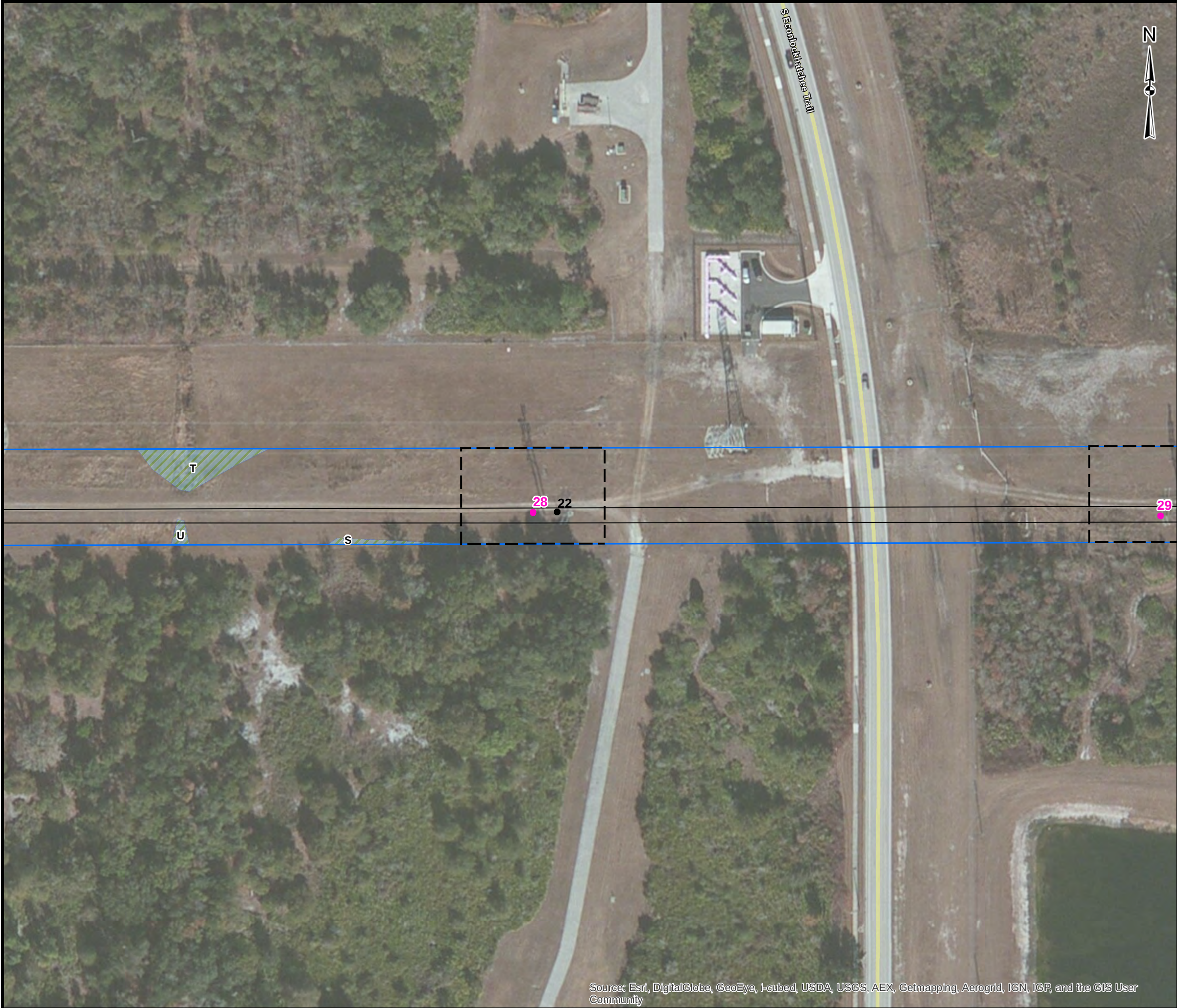
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PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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KEY MAP

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ Project Area
- ▭ Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet

1000

0

100

Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT

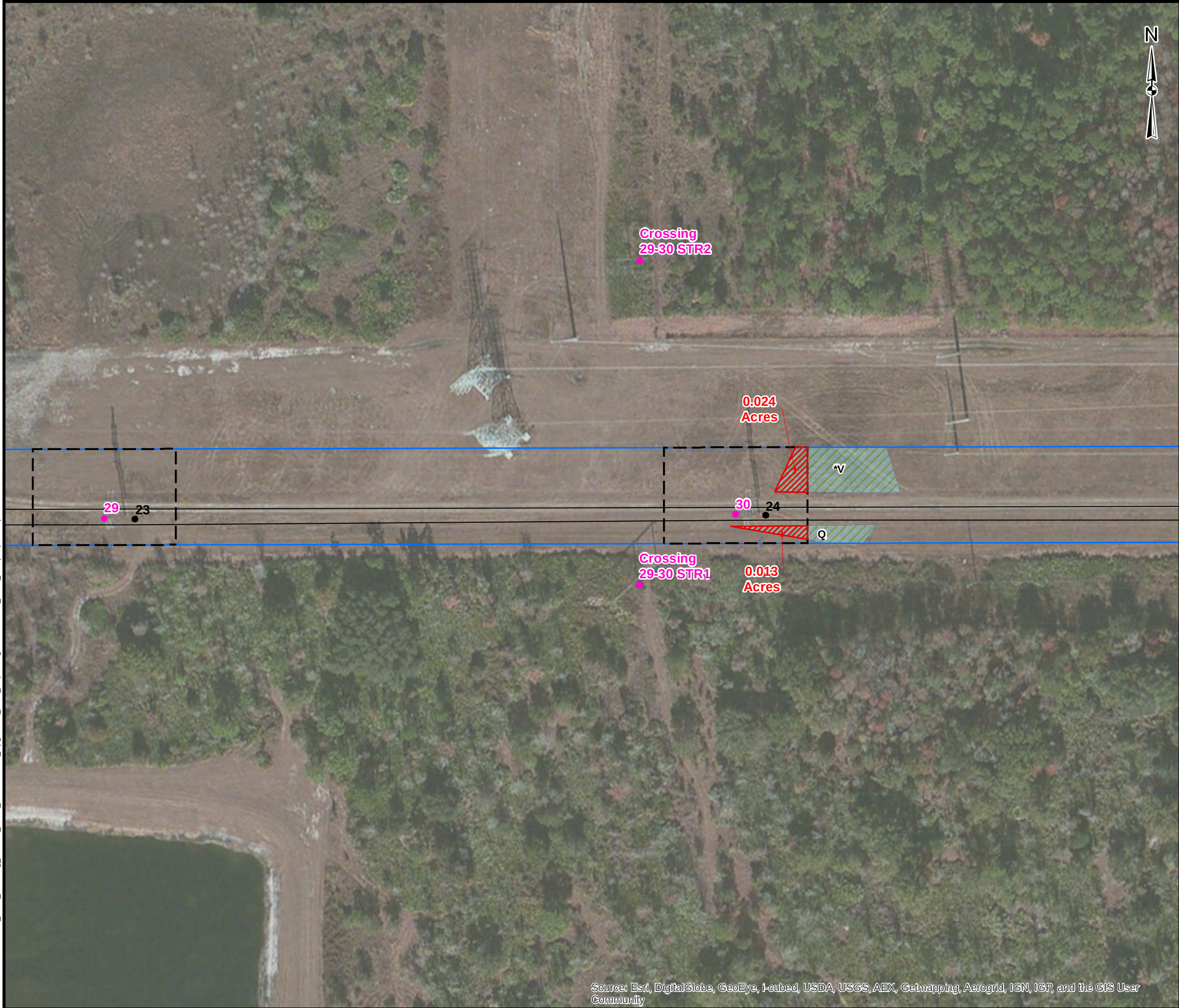
OUC PERSHING TO STANTON 115KV
UPGRADE PROJECT

TITLE

TEMPORARY CONSTRUCTION
AREA PLAN

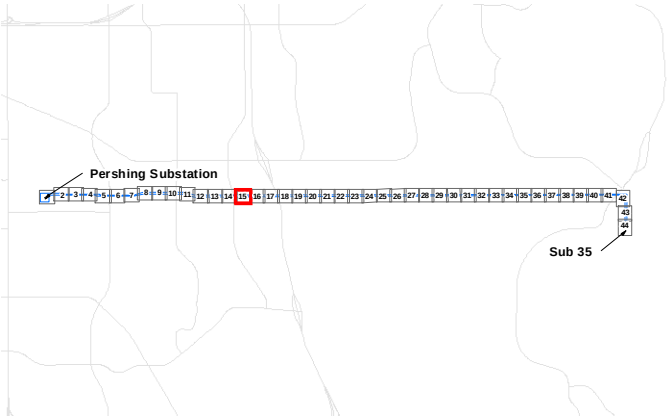
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REVIEW	KAB	27 Jan. 2014		

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

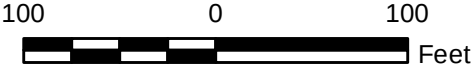


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ ProjectArea
- ▭ Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



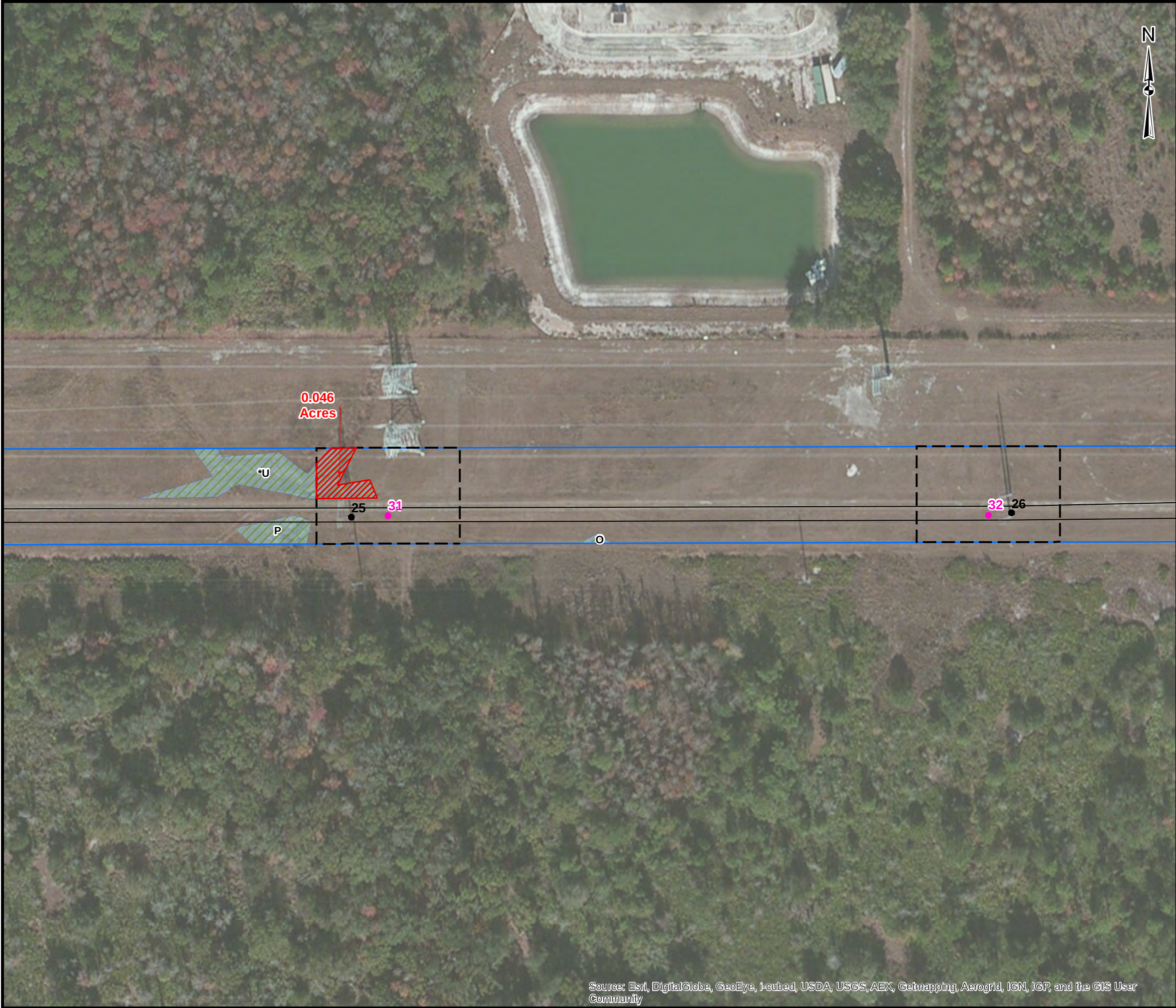
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PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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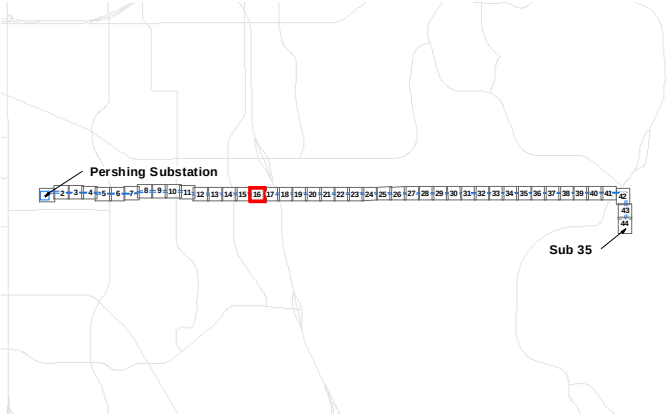
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

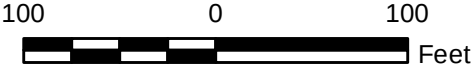


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



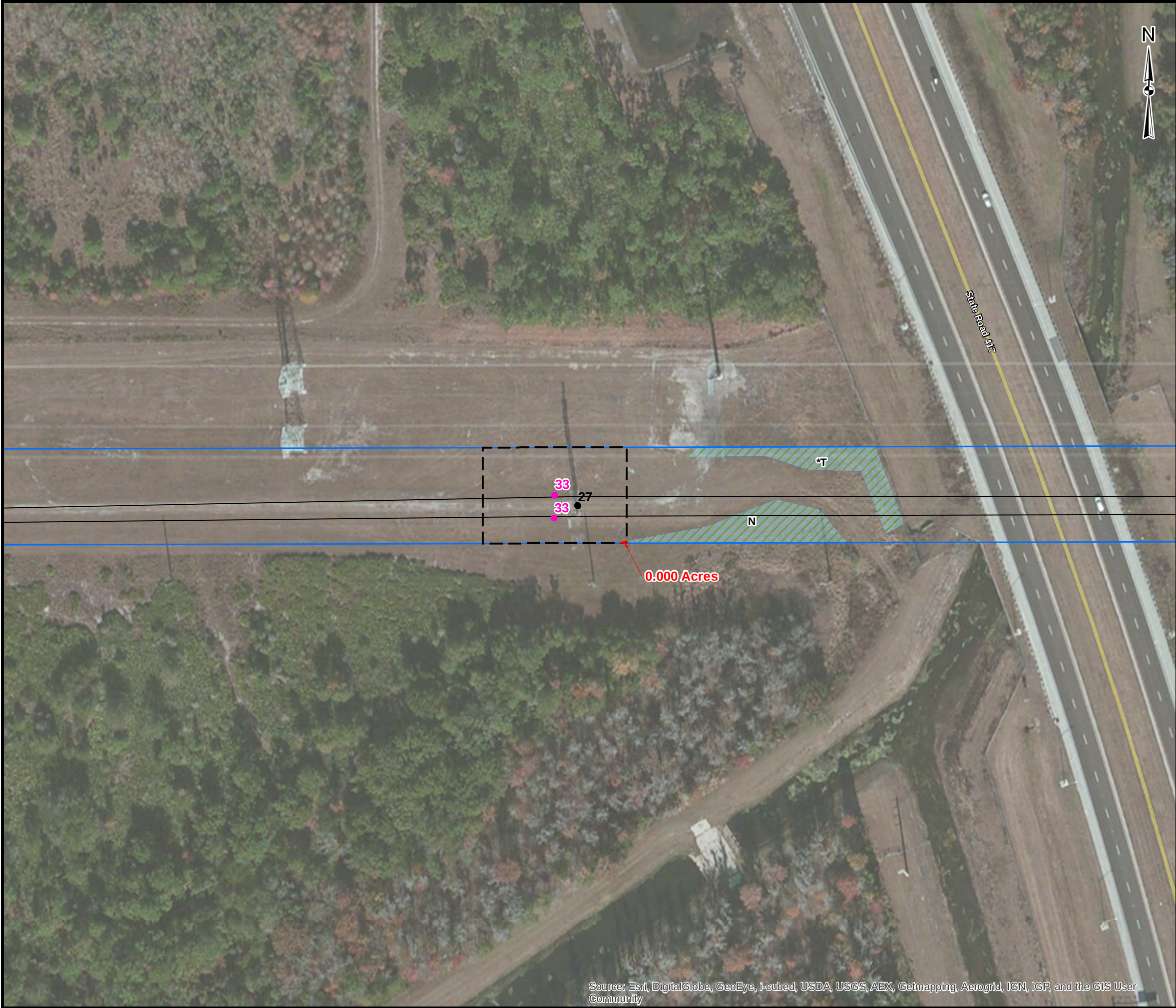
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PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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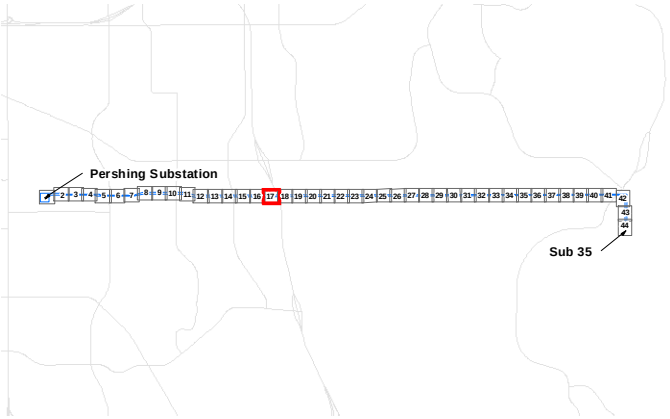
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

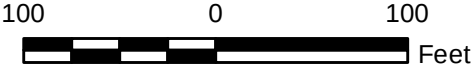


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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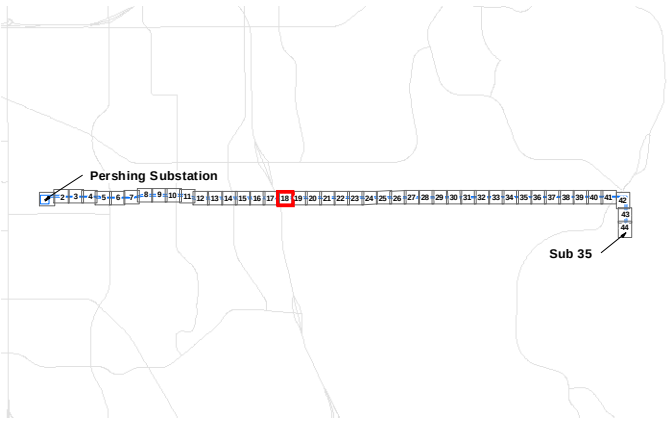
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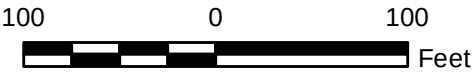


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
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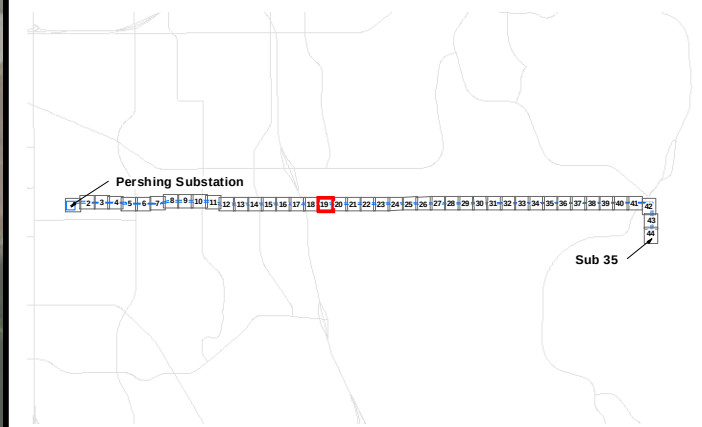
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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KEY MAP

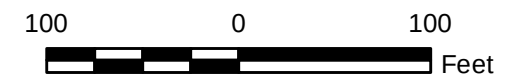


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- ▤ Temporary Construction Area
- ▨ Wetlands
- ▧ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



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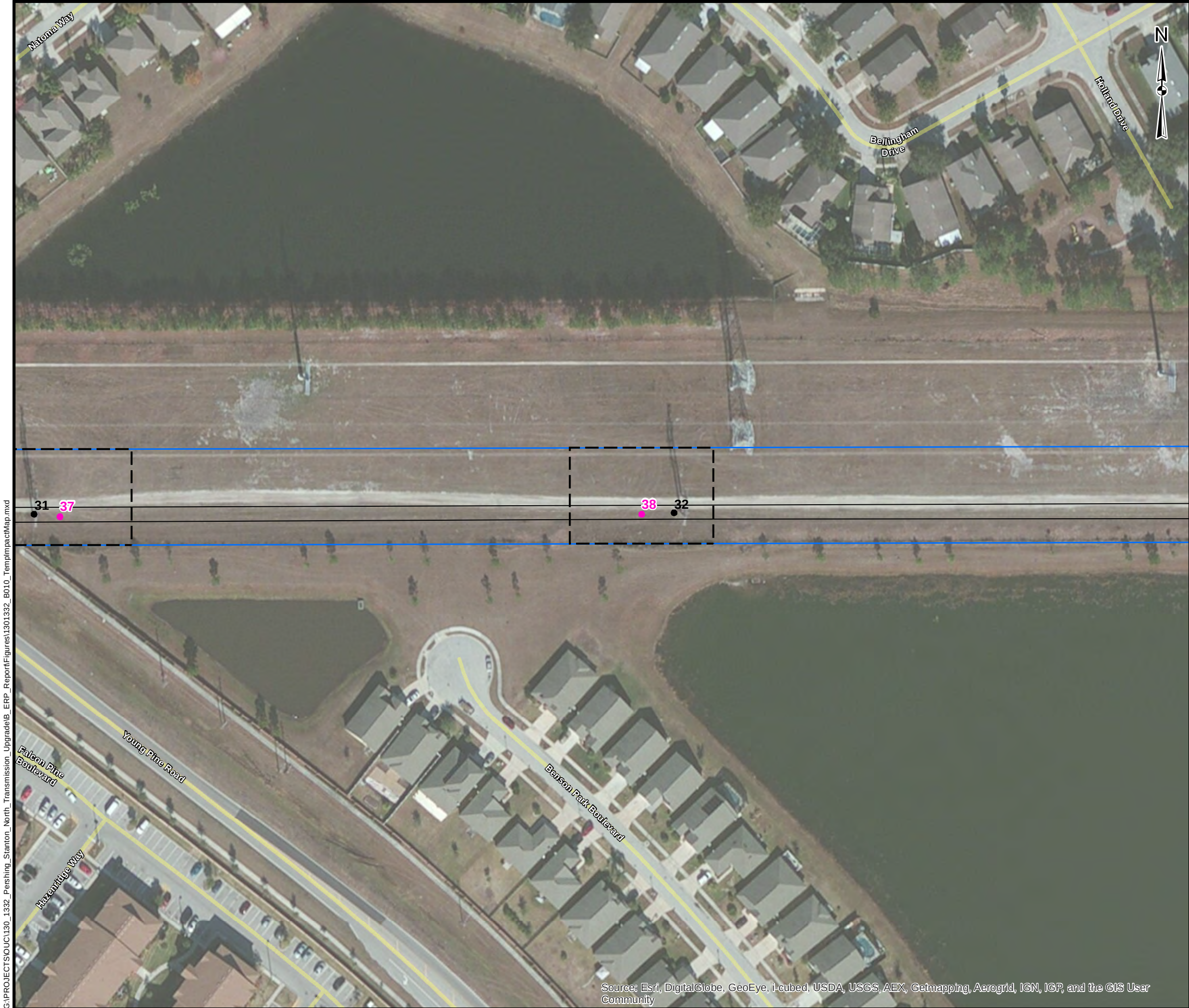
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OUC PERSHING TO STANTON 115KV
UPGRADE PROJECT

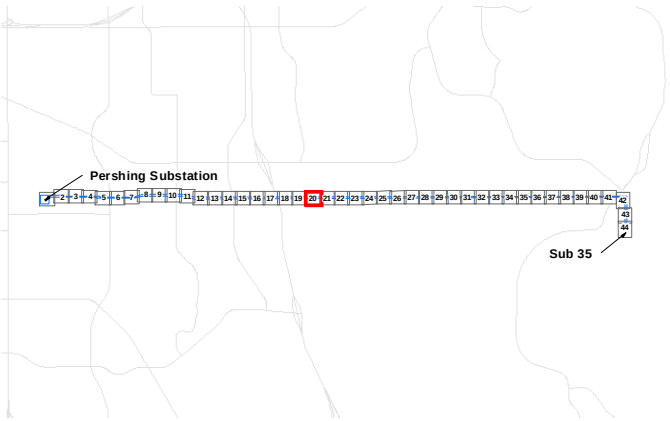
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PROJECT NO. 130-1332			FILE No. 1301332_B010	
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KEY MAP

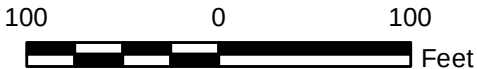


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
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- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



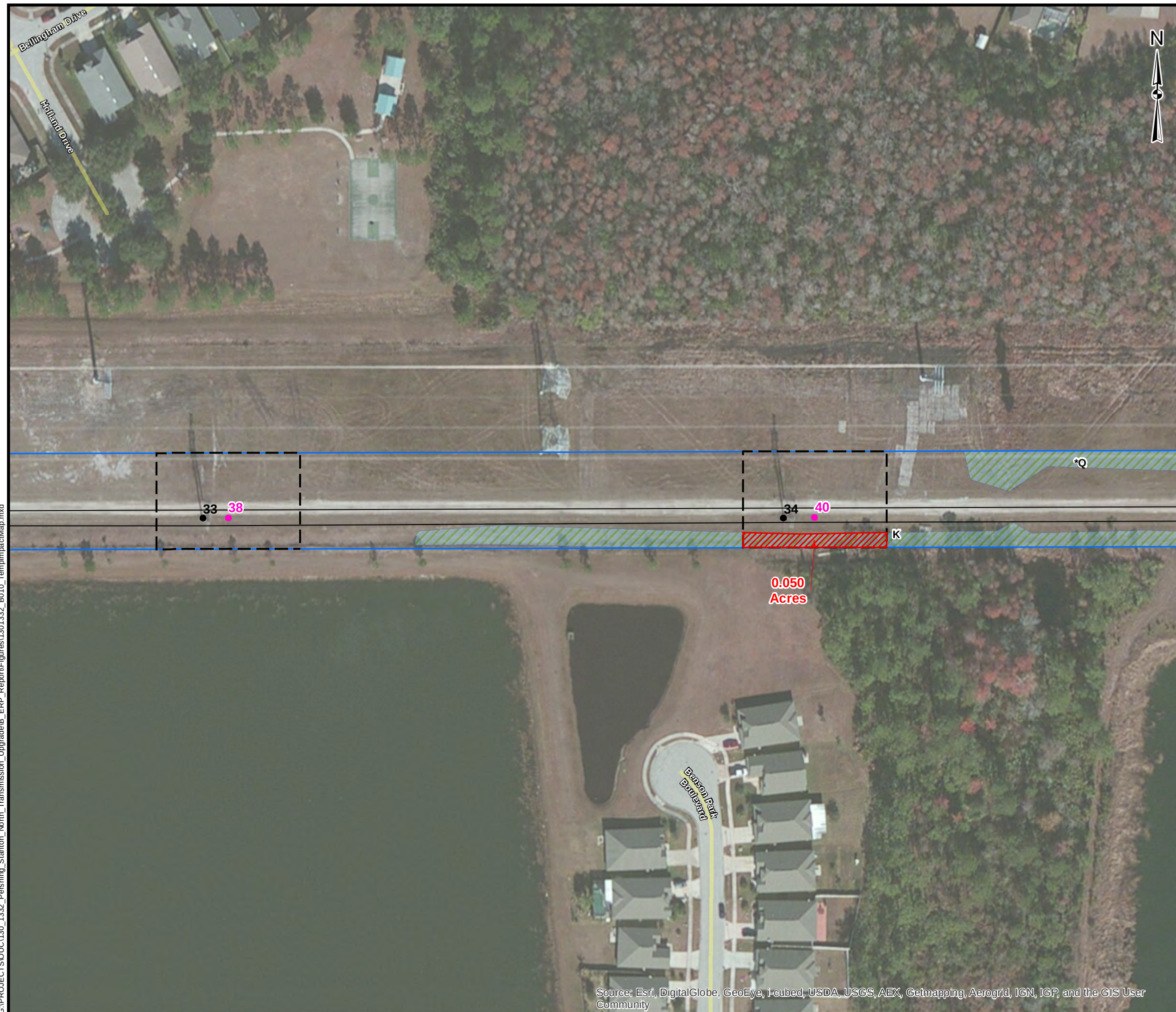
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PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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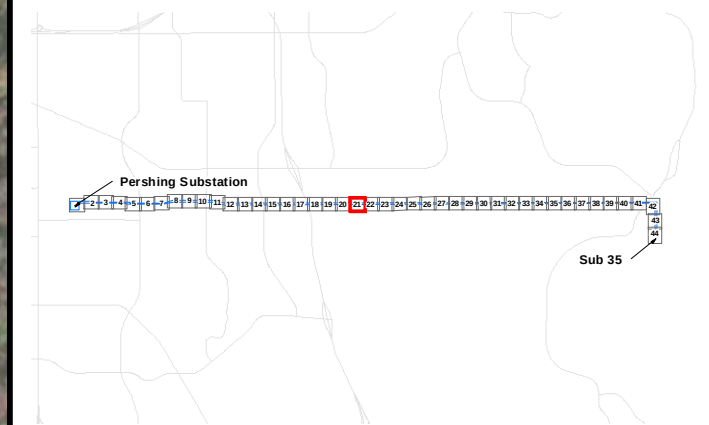
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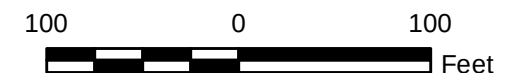


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- ▢ Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

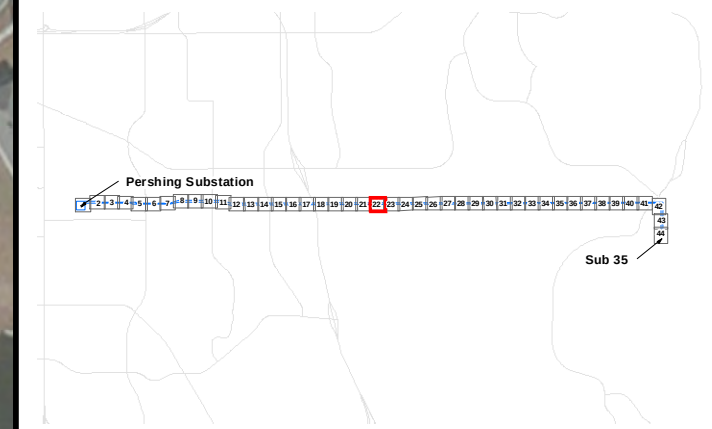
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Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



										
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OUC PERSHING TO STANTON 115KV UPGRADE PROJECT										
TITLE										
TEMPORARY CONSTRUCTION AREA PLAN										
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KEY MAP

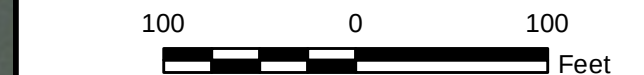


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- ▢ Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
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REV.	DATE	DES	REVISION DESCRIPTION					GIS	CHK	R/W

PROJECT	ouc pershing to stanton 115kv upgrade project
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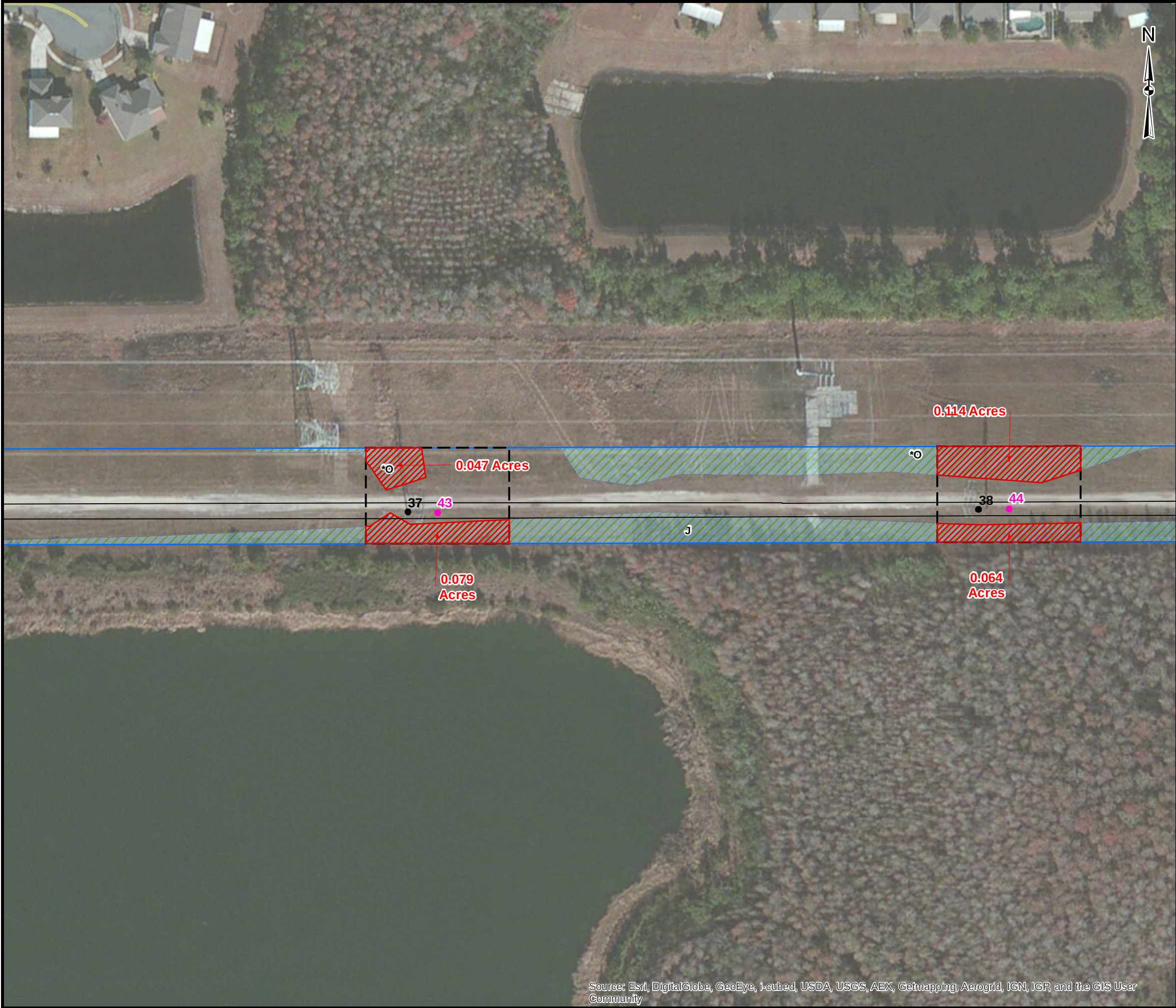
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**TEMPORARY CONSTRUCTION
AREA PLAN**



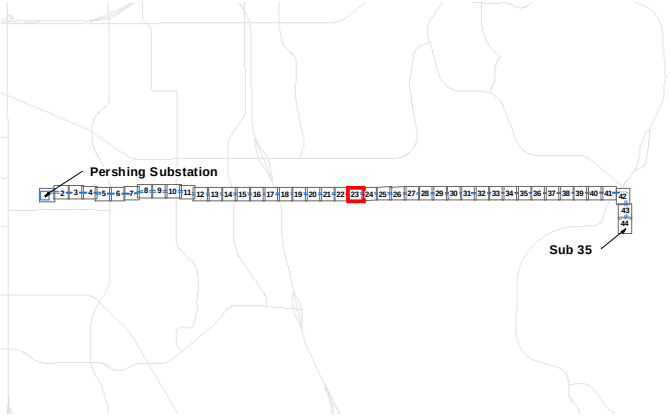
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

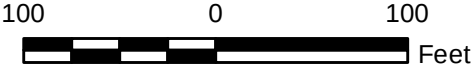


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



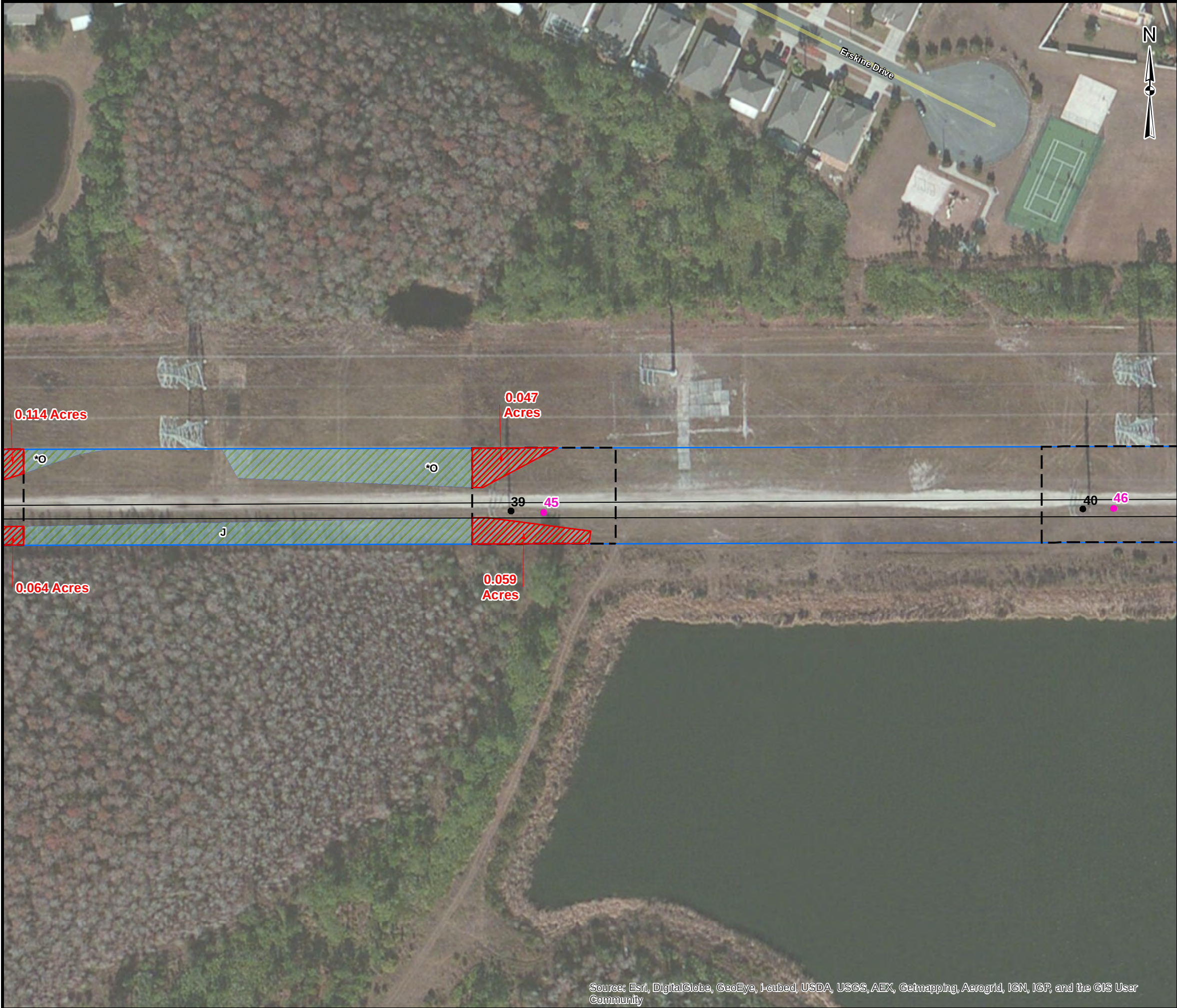
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PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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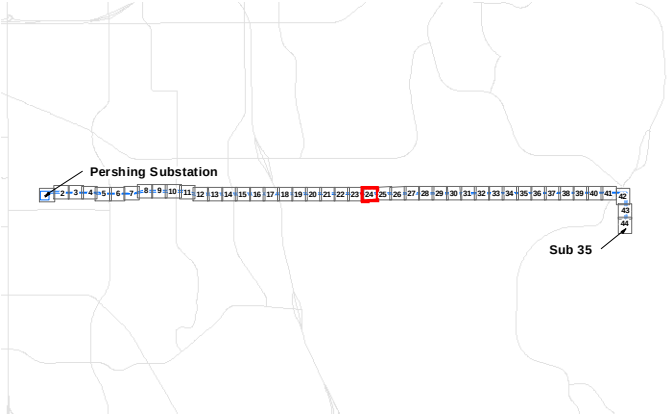
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

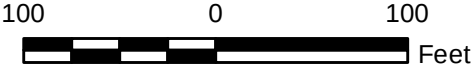


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ Project Area
- ▭ Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
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- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



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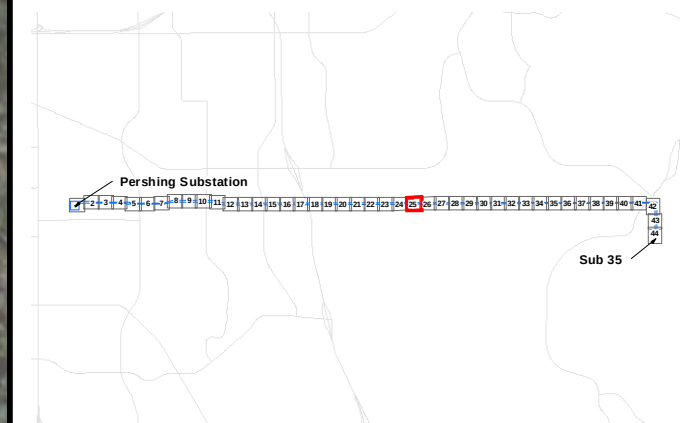
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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KEY MAP

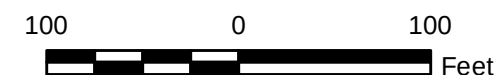


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea
- ▭ Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



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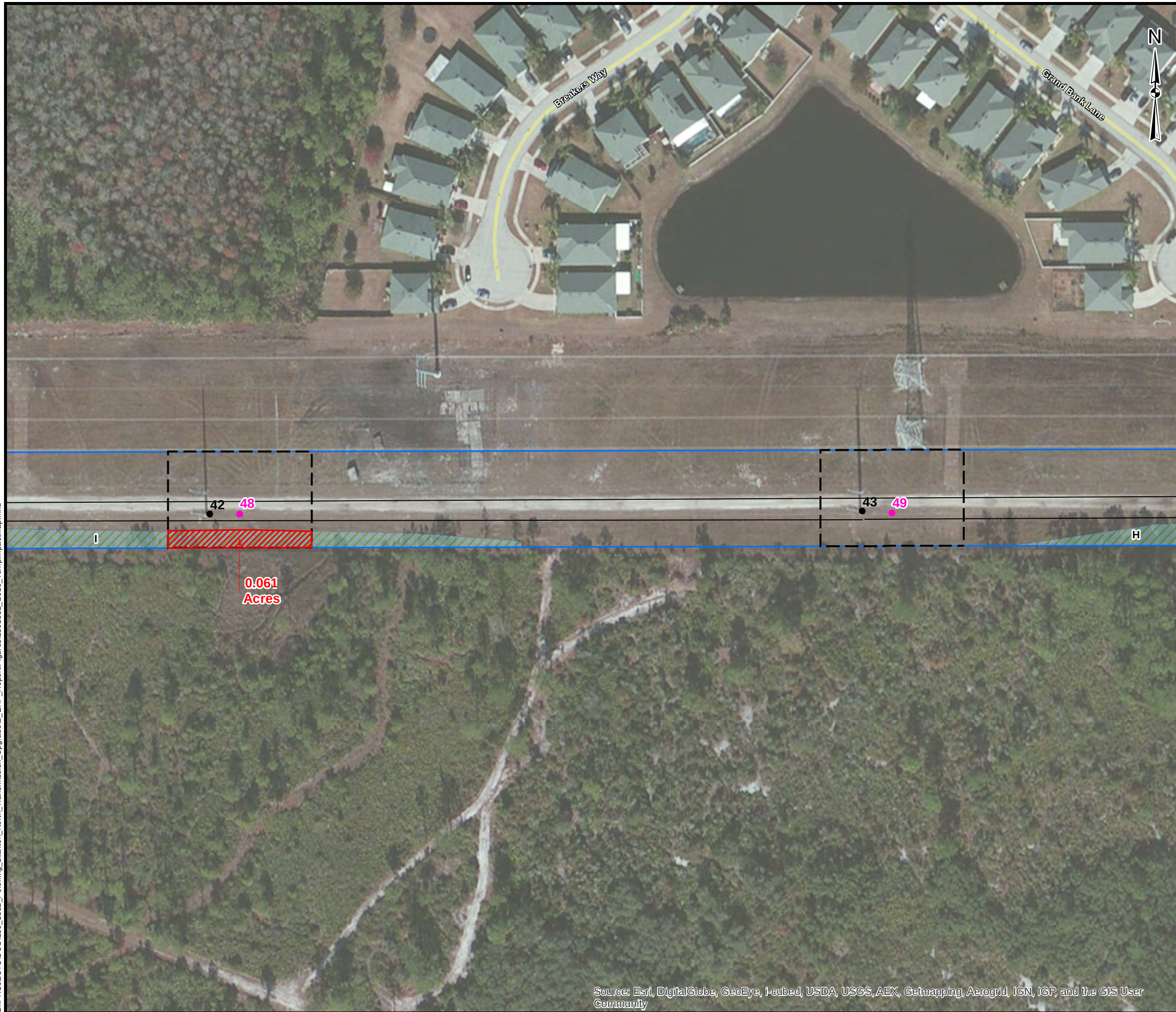
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OUC PERSHING TO STANTON 115KV UPGRADE PROJECT

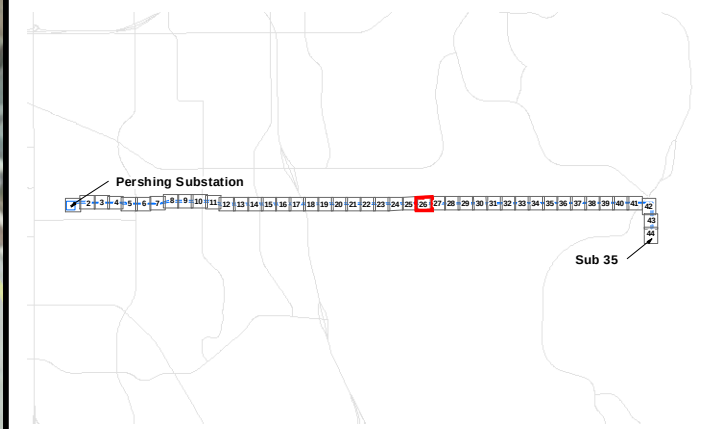
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KEY MAP

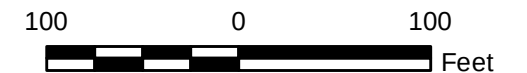


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- ▤ Temporary Construction Area
- ▨ Wetlands
- ▧ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet

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PROJECT

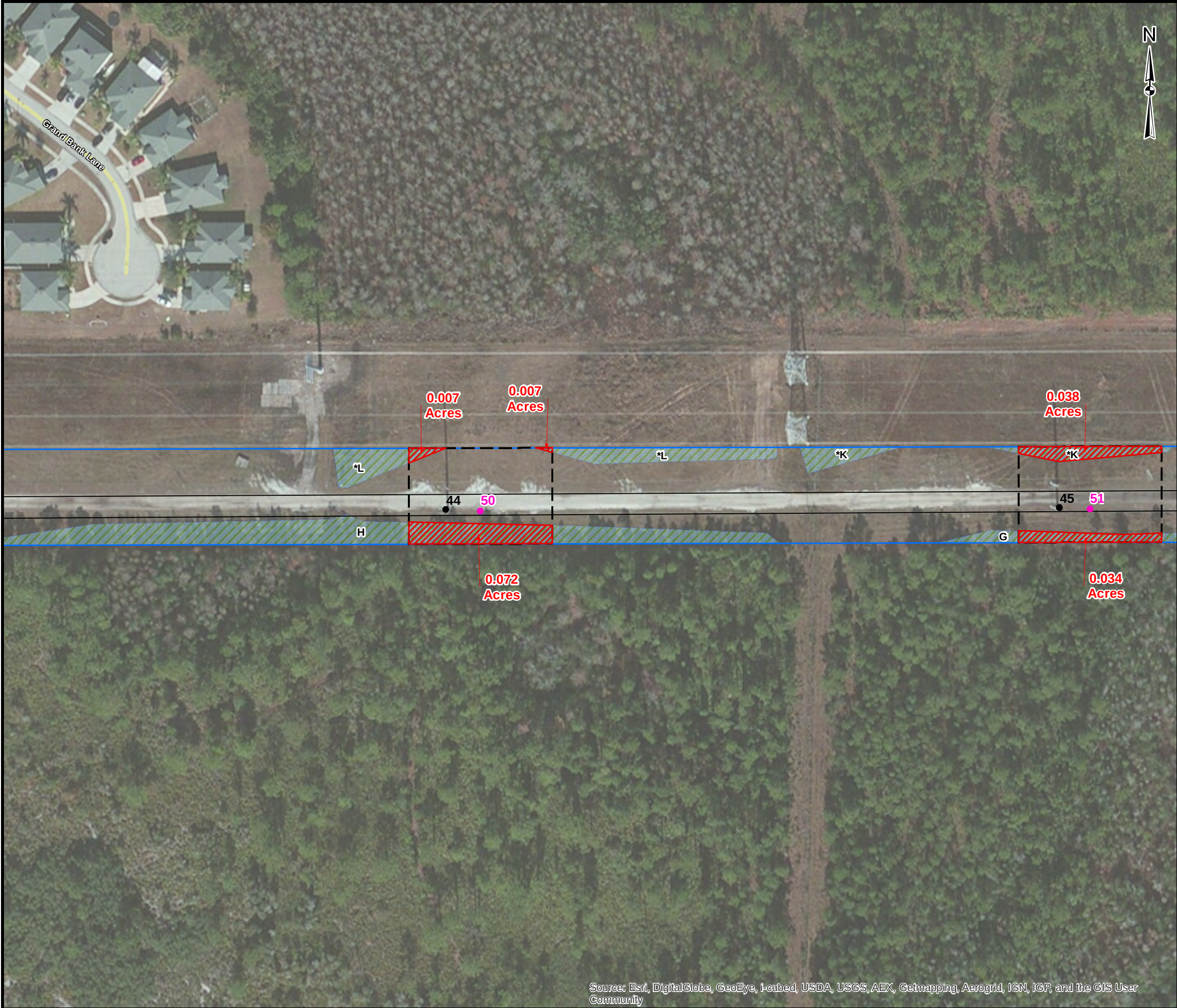
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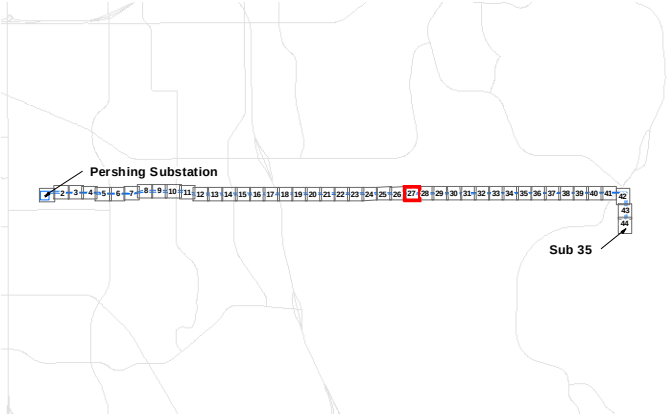
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

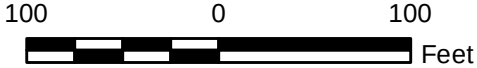


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ ProjectArea
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- ▨ Wetlands
- ▨ Temporary Wetland Impacts

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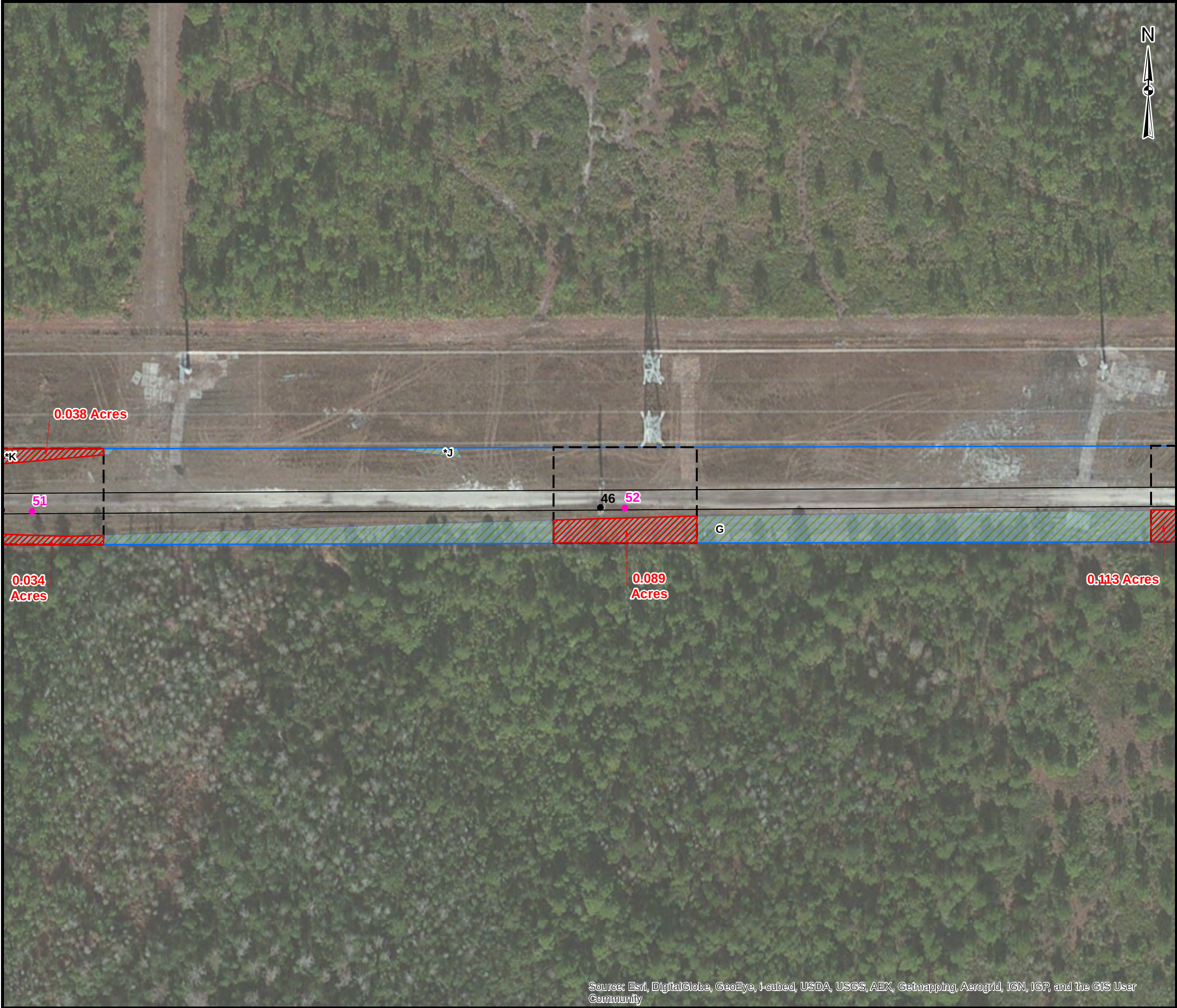
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PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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KEY MAP

LEGEND

- Existing Transmission Structures
- New Structures
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Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet

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REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT

OUC PERSHING TO STANTON 115KV
UPGRADE PROJECT

TITLE

TEMPORARY CONSTRUCTION
AREA PLAN

PROJECT NO. 130-1332			FILE No. 1301332_B010	
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KEY MAP

LEGEND

- Existing Transmission Structures
- New Structures
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Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT

OUC PERSHING TO STANTON 115KV
UPGRADE PROJECT

TITLE

TEMPORARY CONSTRUCTION
AREA PLAN

PROJECT NO. 130-1332			FILE No. 1301332_B010	
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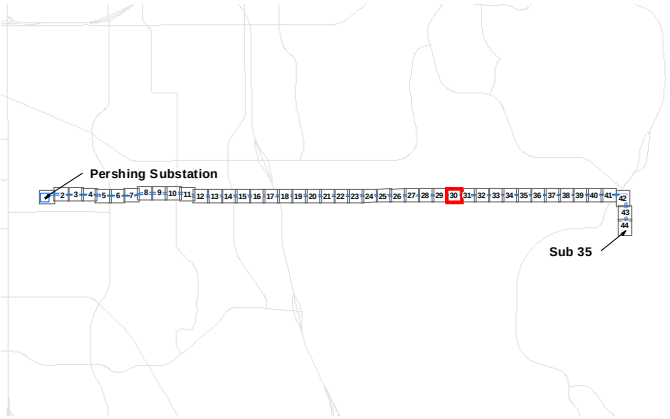
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

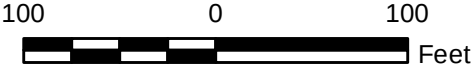


LEGEND

- Existing Transmission Structures
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- Transmission Line
- ProjectArea
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

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REV.	DATE	DES	REVISION DESCRIPTION						GIS	CHK	RVW
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KEY MAP

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ ProjectArea
- ▭ Temporary Construction Area
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2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet

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REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT

OUC PERSHING TO STANTON 115KV
UPGRADE PROJECT

TITLE

TEMPORARY CONSTRUCTION
AREA PLAN

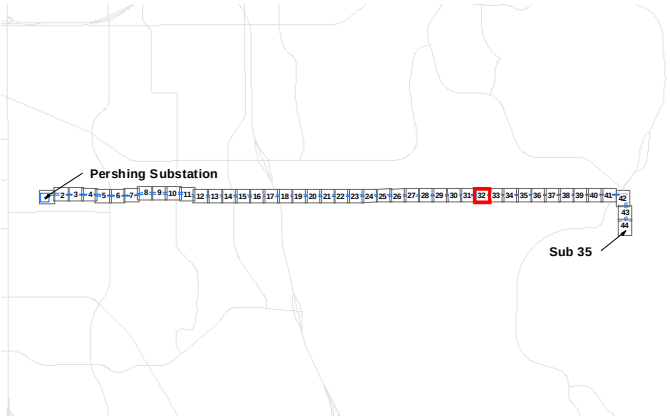
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

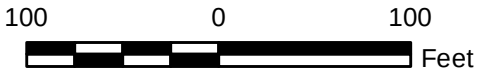


LEGEND

- Existing Transmission Structures
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- Transmission Line
- ProjectArea
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- ▨ Temporary Wetland Impacts

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- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



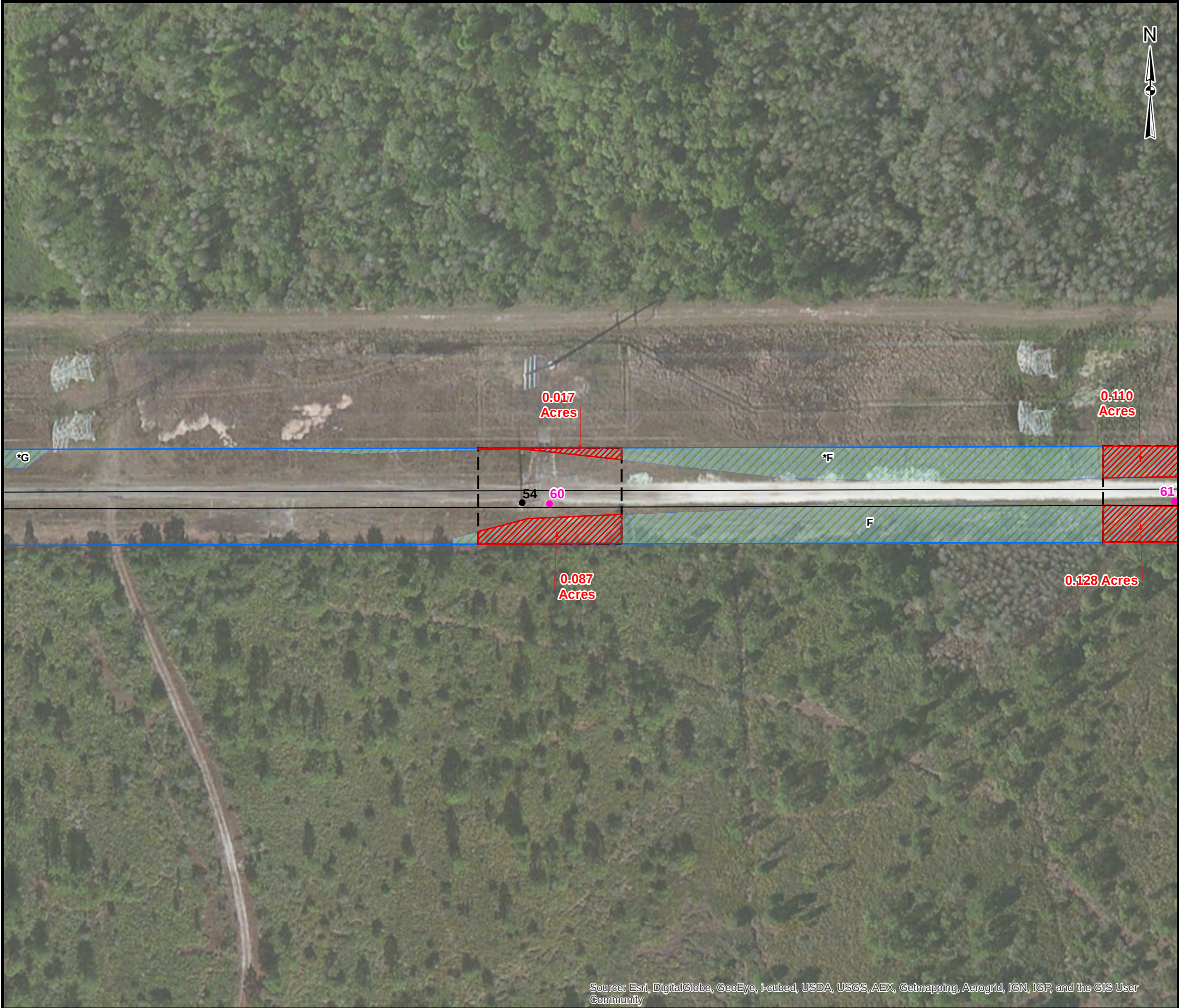
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PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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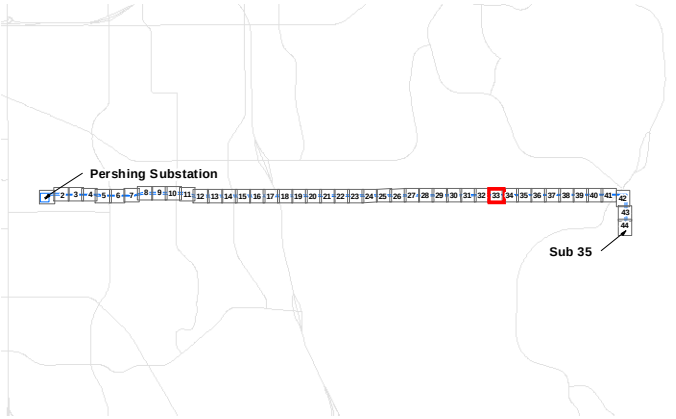
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

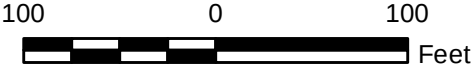


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea
- Temporary Construction Area
- Wetlands
- Temporary Wetland Impacts

REFERENCES

- Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 - Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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KEY MAP

LEGEND

- Existing Transmission Structures
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Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet

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Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT		
TITLE	TEMPORARY CONSTRUCTION AREA PLAN		

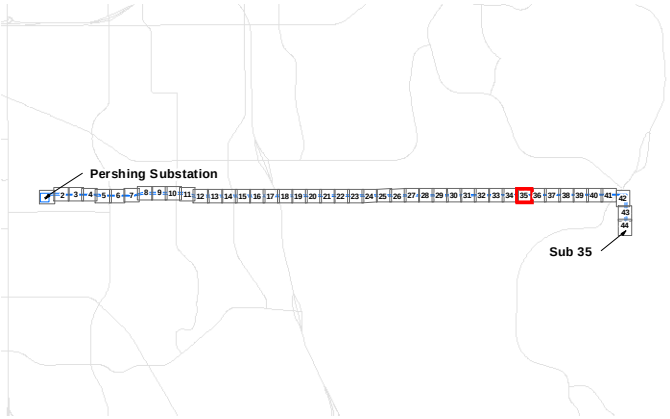
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KEY MAP

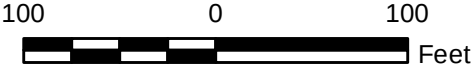


LEGEND

- Existing Transmission Structures
- New Structures
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- Project Area
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

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 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



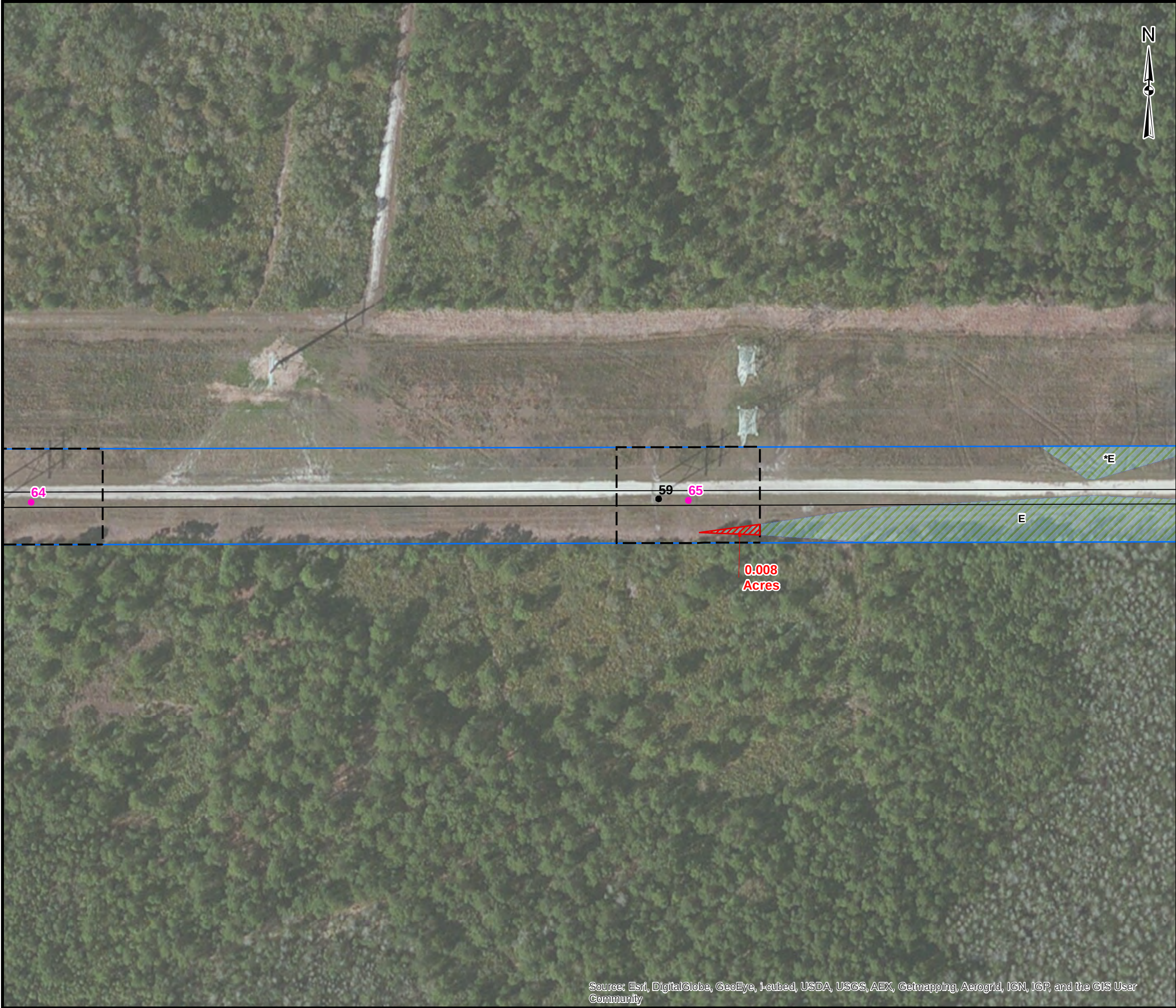
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PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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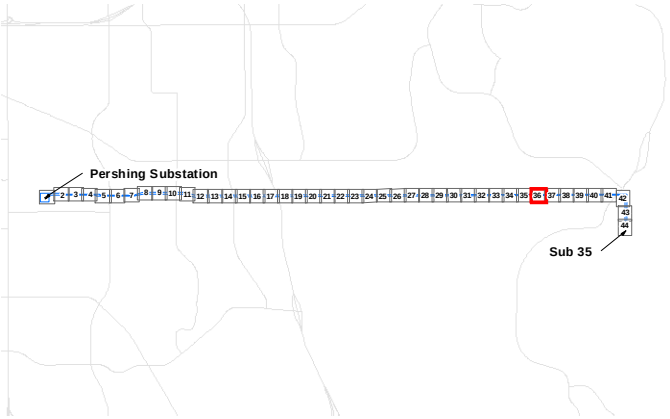
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

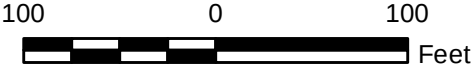


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

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- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



											
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OUC PERSHING TO STANTON 115KV UPGRADE PROJECT											
TITLE											
TEMPORARY CONSTRUCTION AREA PLAN											
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KEY MAP

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ▨ Wetlands
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REFERENCES

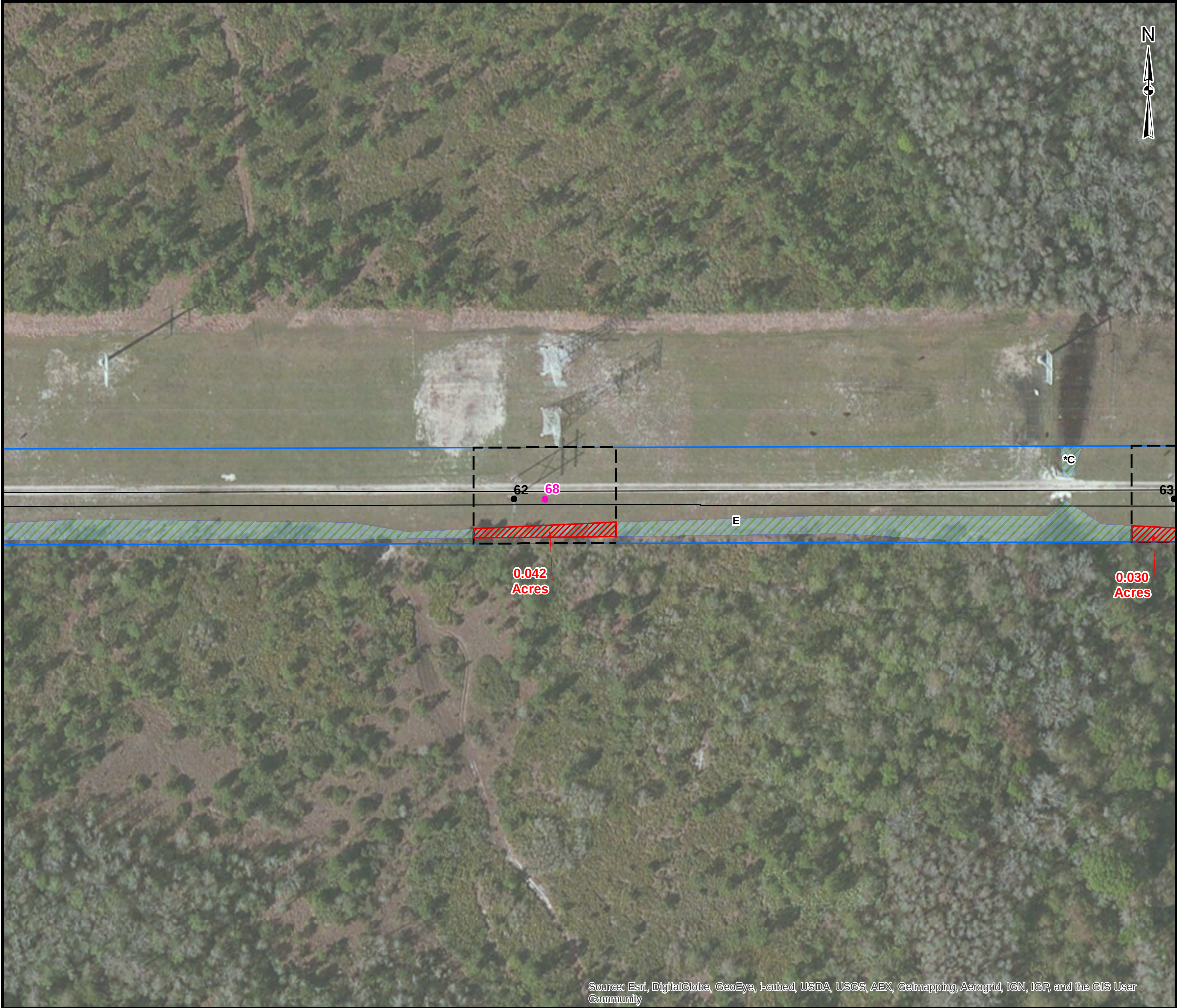
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PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT					
TITLE	TEMPORARY CONSTRUCTION AREA PLAN					

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KEY MAP

LEGEND

- Existing Transmission Structures
- New Structures
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Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet

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Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT

OUC PERSHING TO STANTON 115KV
UPGRADE PROJECT

TITLE

TEMPORARY CONSTRUCTION
AREA PLAN

PROJECT NO. 130-1332			FILE No. 1301332_B010	
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KEY MAP

LEGEND

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Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT

OUC PERSHING TO STANTON 115KV
UPGRADE PROJECT

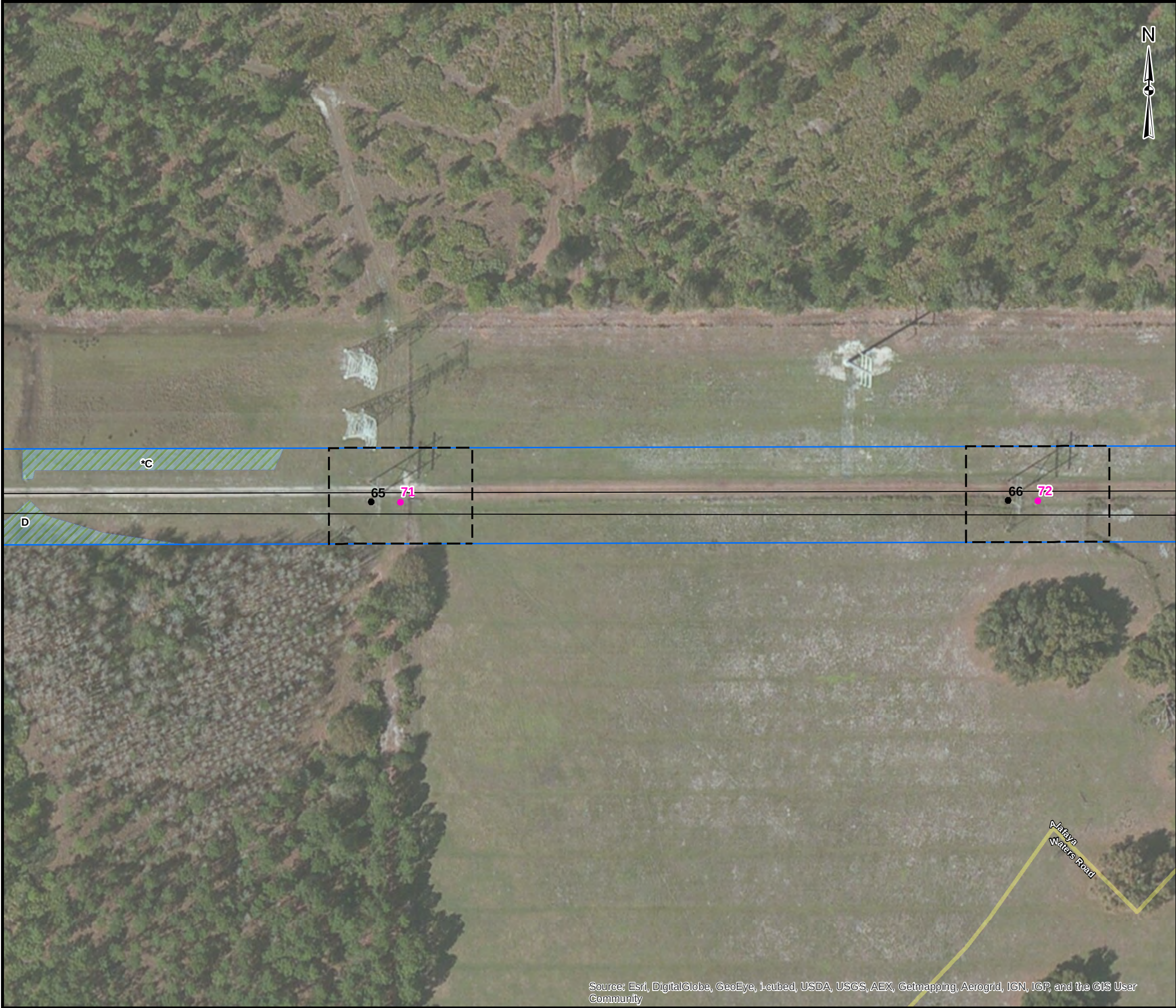
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AREA PLAN

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

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KEY MAP

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea
- Temporary Construction Area
- Wetlands
- Temporary Wetland Impacts

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Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet

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Feet

REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW

PROJECT

OUC PERSHING TO STANTON 115KV
UPGRADE PROJECT

TITLE

TEMPORARY CONSTRUCTION
AREA PLAN

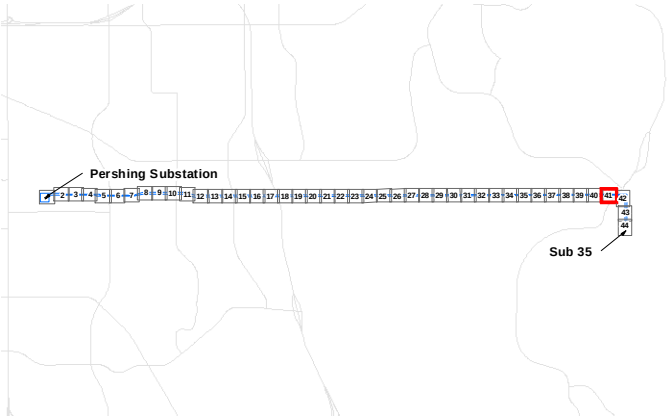
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KEY MAP

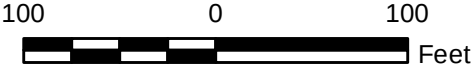


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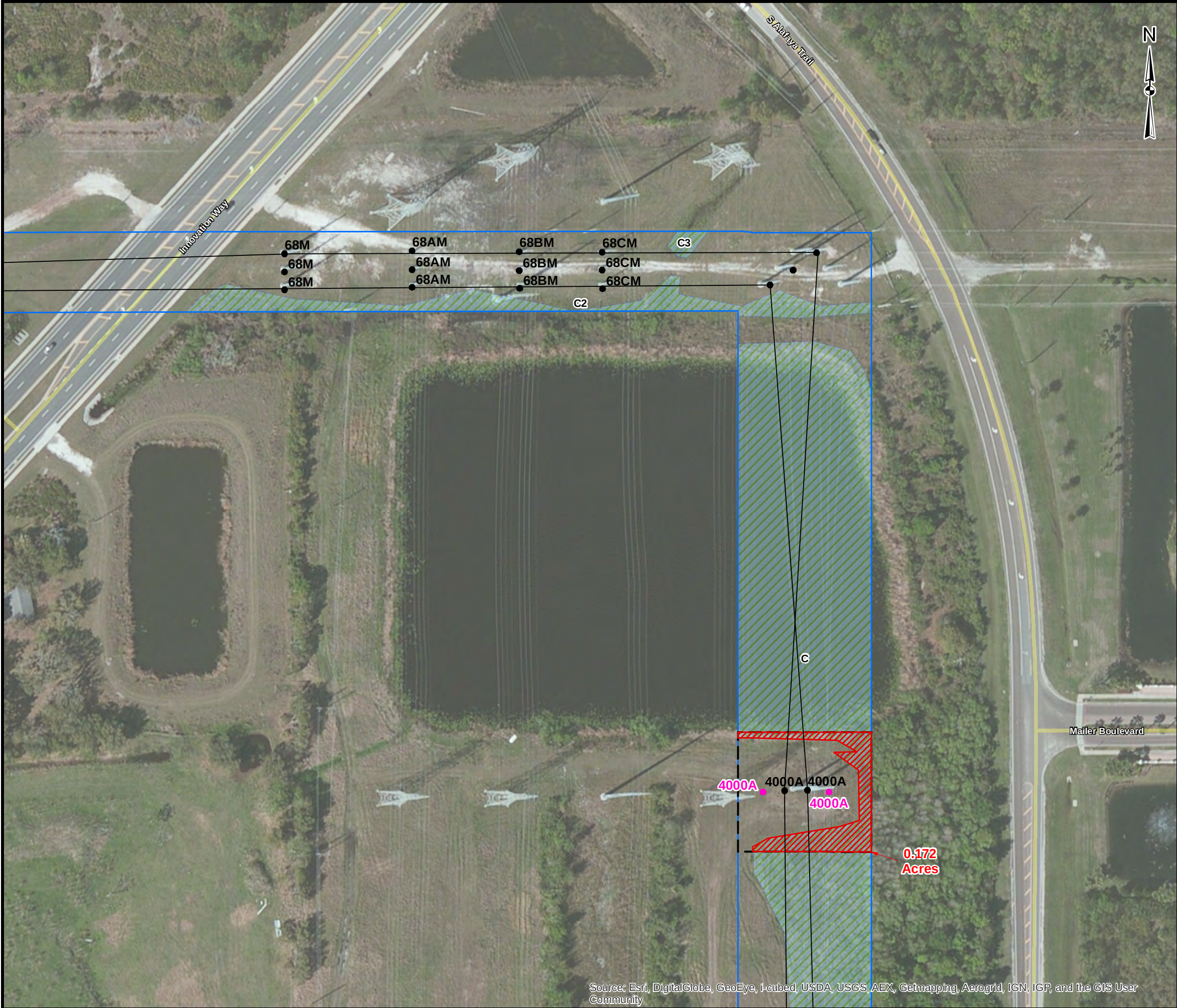
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PROJECT	OUC PERSHING TO STANTON 115KV UPGRADE PROJECT
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TITLE	TEMPORARY CONSTRUCTION AREA PLAN
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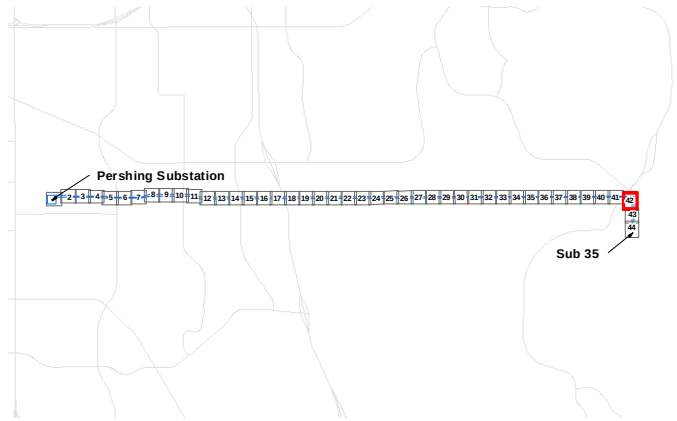
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	GIS	NRL	27 Jan. 2014	ATTACHMENT B FIGURE 2 Page 41 of 44	
	CHECK	KAB	27 Jan. 2014		
	REVIEW	KAB	27 Jan. 2014		

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

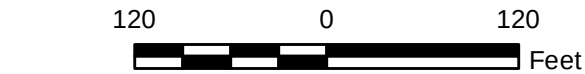


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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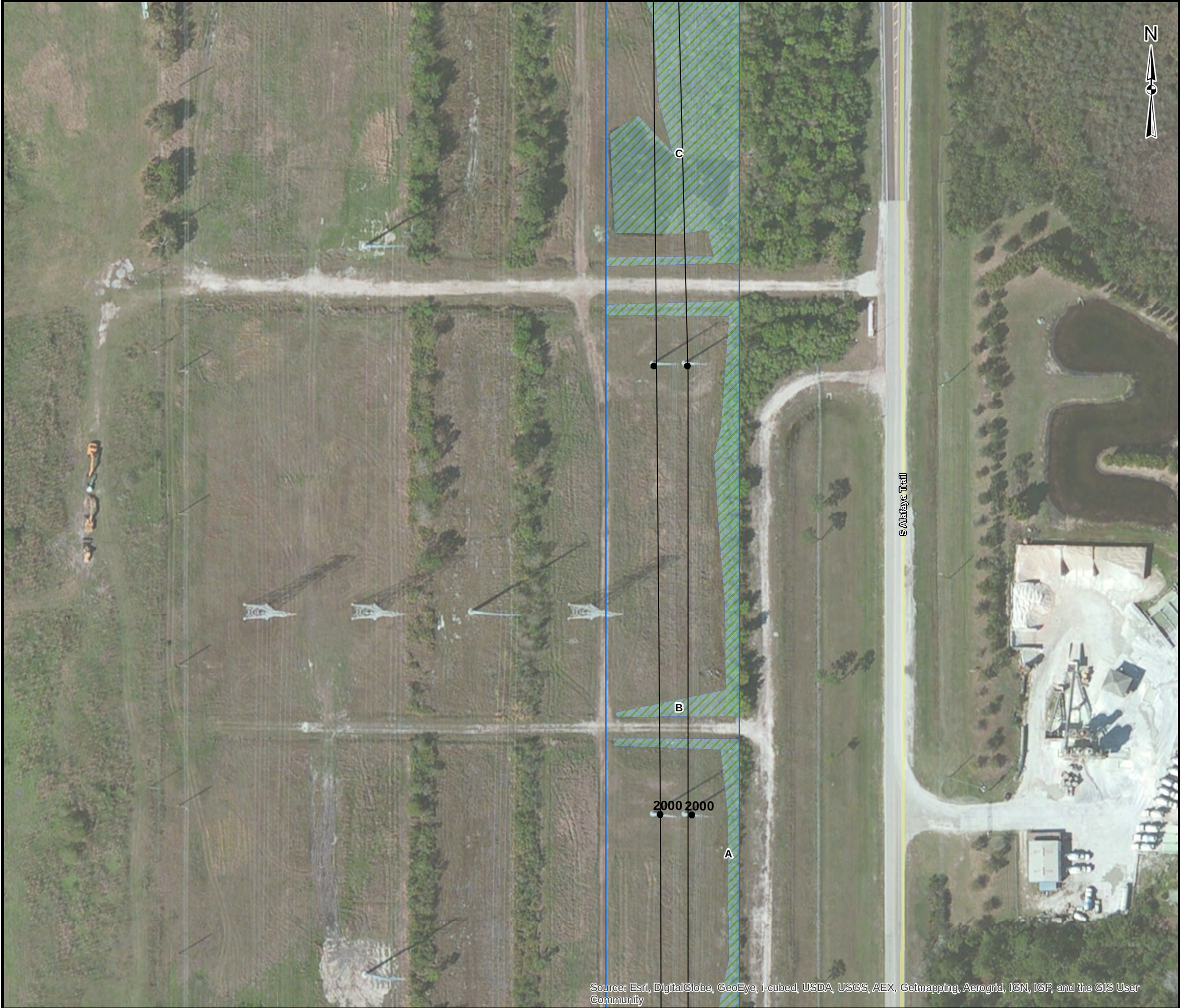
PROJECT
OUC PERSHING TO STANTON 115KV
UPGRADE PROJECT

TITLE
TEMPORARY CONSTRUCTION
AREA PLAN



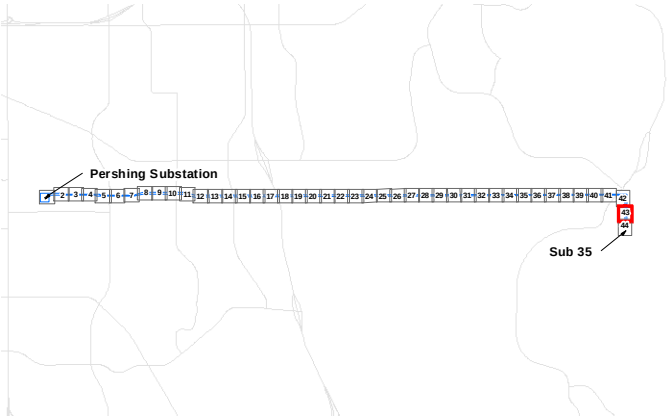
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GIS	NRL	27 Jan. 2014	ATTACHMENT B FIGURE 2 Page 42 of 44	
CHECK	KAB	27 Jan. 2014		
REVIEW	KAB	27 Jan. 2014		

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

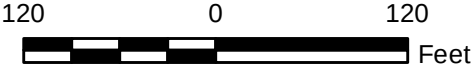


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ProjectArea
- Temporary Construction Area
- Wetlands
- Temporary Wetland Impacts

REFERENCES

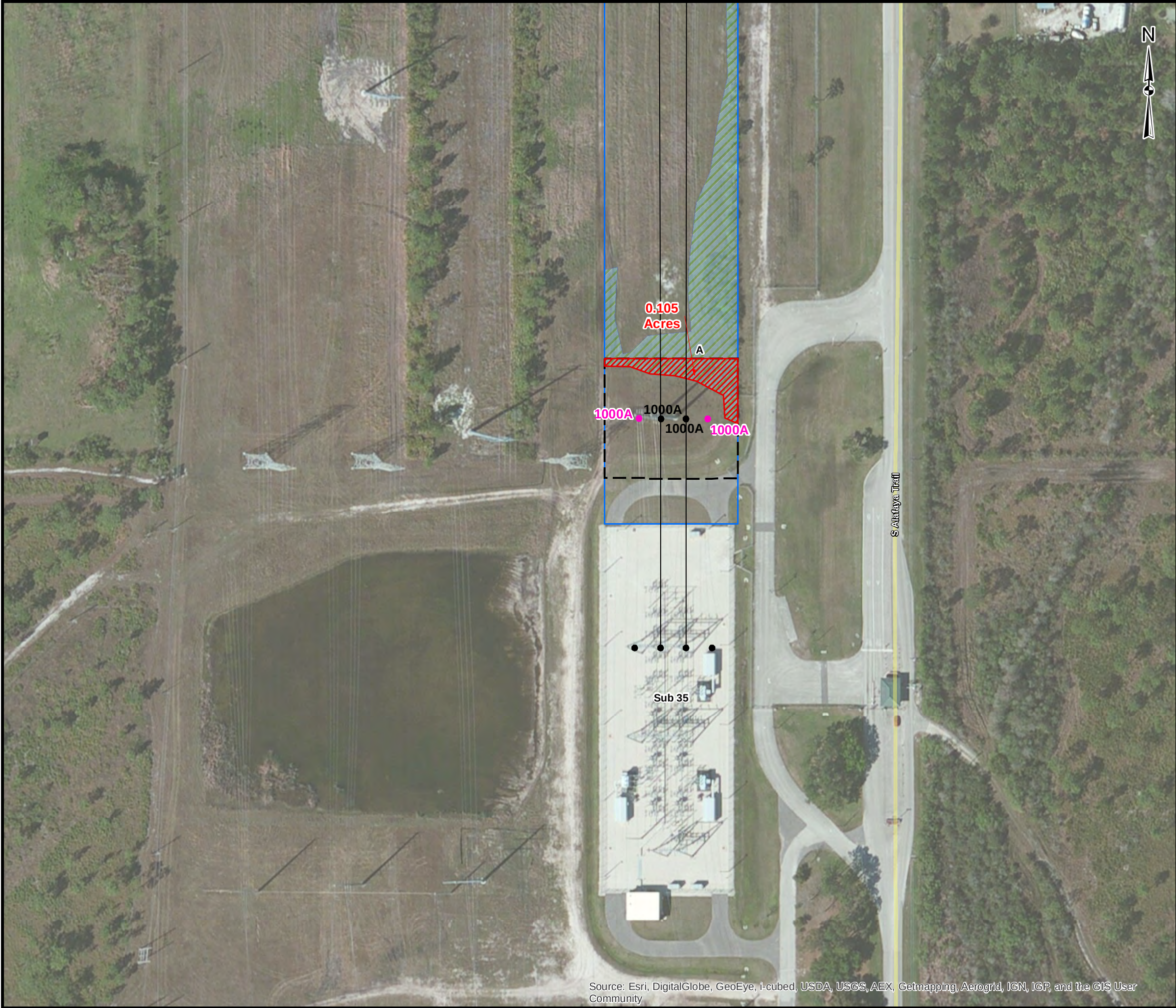
1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
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PROJECT						
OUC PERSHING TO STANTON 115KV UPGRADE PROJECT						
TITLE						
TEMPORARY CONSTRUCTION AREA PLAN						
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DESIGN	KAB	20 Jan. 2014	SCALE:	AS SHOWN	REV. 0	
GIS	NRL	27 Jan. 2014	ATTACHMENT B FIGURE 2 Page 43 of 44			
CHECK	KAB	27 Jan. 2014				
REVIEW	KAB	27 Jan. 2014				

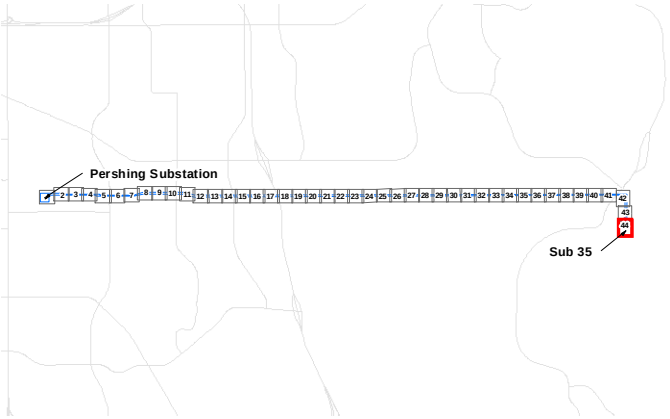


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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

KEY MAP

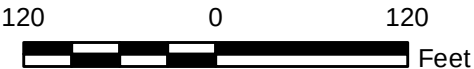


LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Temporary Construction Area
- ▨ Wetlands
- ▨ Temporary Wetland Impacts

REFERENCES

1. Project Area, Transmission Structures, SAIC / Golder Associates Inc., 2013
 2. Construction Area, Temporary Impacts, Golder Associates Inc., 2014
- Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet



REV.	DATE	DES	REVISION DESCRIPTION	GIS	CHK	RVW
PROJECT						
OUC PERSHING TO STANTON 115KV UPGRADE PROJECT						
TITLE						
TEMPORARY CONSTRUCTION AREA PLAN						
PROJECT NO. 130-1332			FILE No. 1301332_B010			
DESIGN	KAB	20 Jan. 2014	SCALE:	AS SHOWN	REV. 0	
GIS	NRL	27 Jan. 2014	ATTACHMENT B FIGURE 2 Page 44 of 44			
CHECK	KAB	27 Jan. 2014				
REVIEW	KAB	27 Jan. 2014				

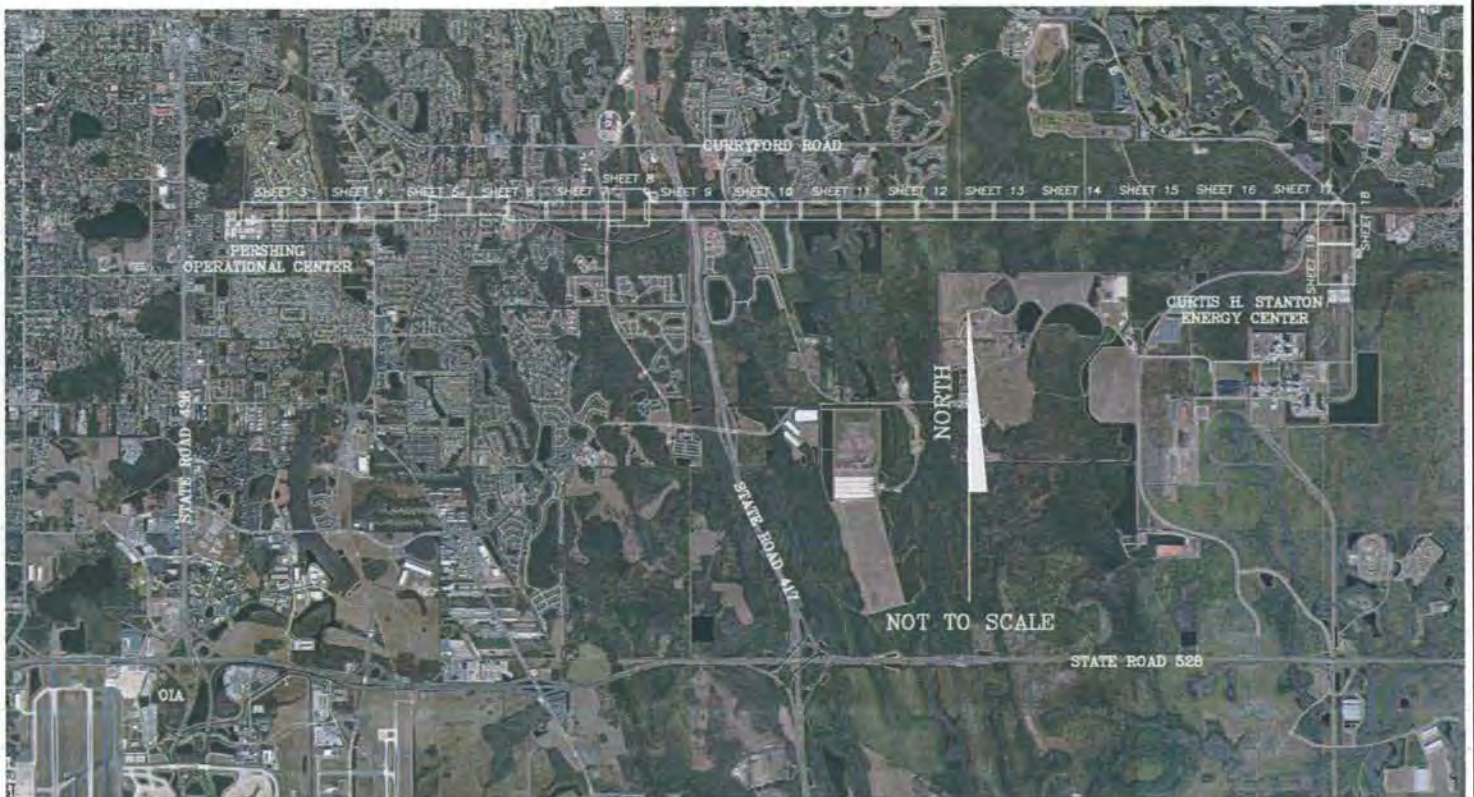


ATTACHMENT C

WETLAND SURVEY

6026 NW 1st Place,
Gainesville,
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(325) 336-5600

SHEET INDEX and LOCATION MAP



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PROJECT TITLE: SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION ORLANDO UTILITIES COMMISSION				DRAWN BY: <u>P.E.W.</u>	CHKD. BY: <u>R.M.J.</u>
				DATE: <u>Jan/23/2014</u>	DATE: <u>Jan/23/2014</u>
				JOB No. <u>6374.14.0714</u>	SCALE: <u>N/A</u>
					SHT. <u>2</u> OF <u>19</u>
	DATE	BY	DESCRIPTION	DRAWING NAME: <u>0714 SEC Pershing 115KV r1.dwg</u>	
REVISION					



AMEC Environment & Infrastructure, Inc.
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Orlando, FL 32801 USA
Phone: (407) 522-7570
Fax: (407) 522-7576
Certificate of Authorization Number LB-0007932



GOLDER ASSOCIATES
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Gainesville,
Florida 31607
(325) 336-5600

ORLANDO UTILITIES COMMISSION
Pershing Operational Center



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PROJECT TITLE:
**SPECIFIC PURPOSE SURVEY OF WETLAND
JURISDICTIONAL DELINEATION
ORLANDO UTILITIES COMMISSION**

DATE	BY	DESCRIPTION
REVISION		

DRAWN BY: <u>P.E.W.</u>	CHKD. BY: <u>R.M.J.</u>
DATE: <u>Jan/23/2014</u>	DATE: <u>Jan/23/2014</u>
JOB No. <u>6374.14.0714</u>	SCALE: <u>1" = 200'</u>
	SHT. <u>3</u> OF <u>19</u>

DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg



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(325) 336-5600

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PROJECT TITLE:
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ORLANDO UTILITIES COMMISSION

DATE	BY	DESCRIPTION
REVISION		

DRAWN BY: <u>P.E.W.</u>		CHKD. BY: <u>R.M.J.</u>	
DATE: <u>Jan/23/2014</u>		DATE: <u>Jan/23/2014</u>	
JOB No.	SCALE:	SHT.	<u>4</u>
<u>6374.14.0714</u>	<u>1" = 200'</u>	OF	<u>19</u>
DRAWING NAME: <u>0714 SEC Pershing 115KV r1.dwg</u>			

DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg



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DATE	BY	DESCRIPTION
REVISION		

DRAWN BY: P.E.W.

CHKD. BY: R.M.J.

DATE: Jan/23/2014

DATE: Jan/23/2014

JOB No.

SCALE:

SHT. 5

6374.14.0714

1" = 200'

OF 19

DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg



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DATE	BY	DESCRIPTION

REVISION

DRAWN BY: P.E.W.

DATE: Jan/23/2014

JOB No.

6374.14.0714

CHKD. BY: R.M.J.

DATE: Jan/23/2014

SCALE:

1" = 200'

SHT.

6

OF

19

DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg



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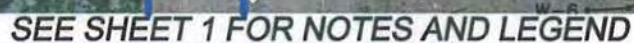
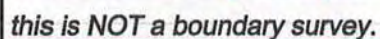
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DRAWN BY: <u>P.E.W.</u>		CHKD. BY: <u>R.M.J.</u>	
DATE: <u>Jan/23/2014</u>		DATE: <u>Jan/23/2014</u>	
JOB No.	SCALE:	SHT. <u>7</u>	
<u>6374.14.0714</u>	<u>1" = 200'</u>	OF <u>19</u>	
DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg			



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DRAWN BY: P.E.W.	CHKD. BY: R.M.J.
DATE: Jan/23/2014	DATE: Jan/23/2014
JOB No. 6374.14.0714	SCALE: 1" = 200'
	SHT. 8 OF 19

DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg



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DATE: Jan/23/2014	DATE: Jan/23/2014
JOB No. 6374.14.0714	SCALE: 1" = 200'
	SHT. 9 OF 19

DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg



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DATE: <u>Jan/23/2014</u>		DATE: <u>Jan/23/2014</u>	
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DRAWING NAME: <u>0714 SEC Pershing 115KV r1.dwg</u>			



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 **Golder Associates**
Gainesville, Florida

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6026 NW 1st Place,
Gainesville,
Florida 31607
(325) 336-5600



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REVISION		

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DATE: Jan/23/2014	DATE: Jan/23/2014
JOB No. 6374.14.0714	SCALE: 1" = 200'
	SHT. 11 OF 19

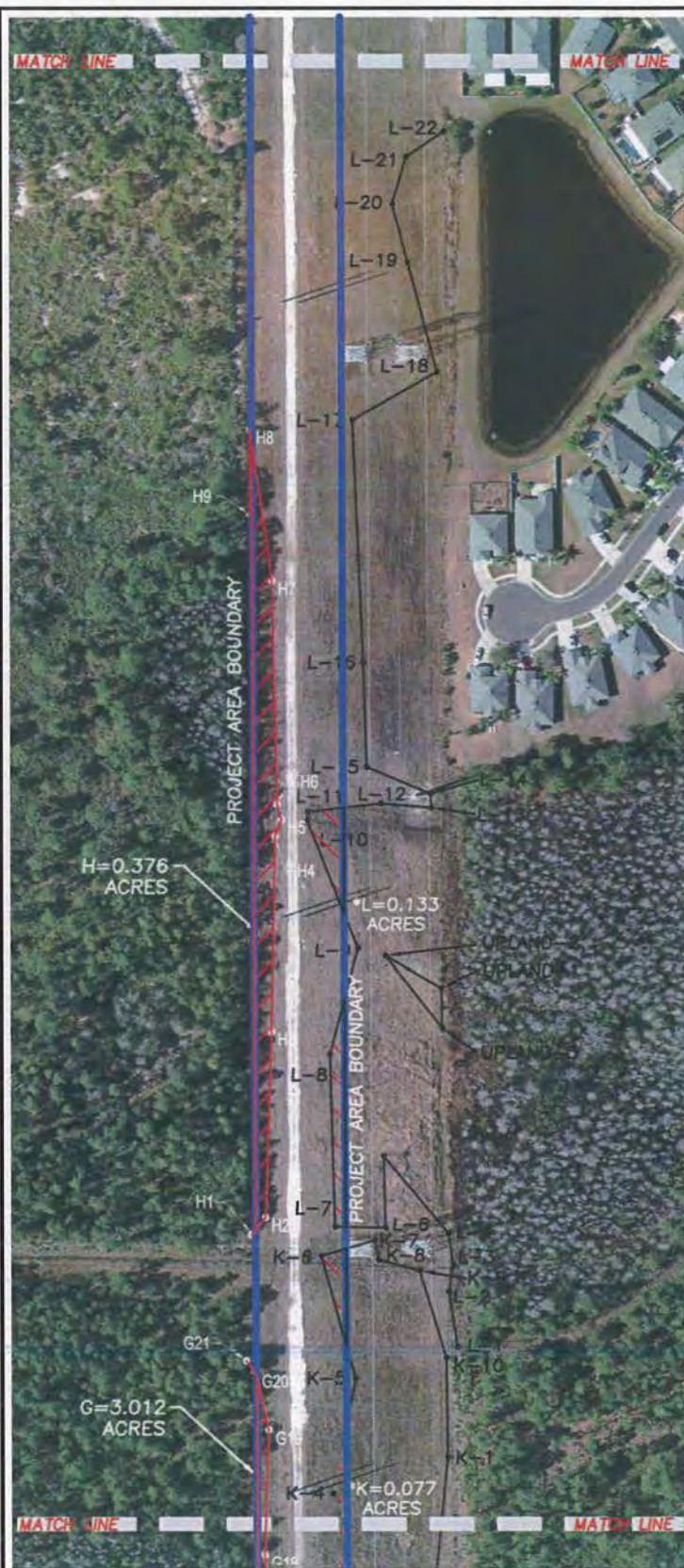
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DATE	BY	DESCRIPTION
REVISION		

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DATE: Jan/23/2014	DATE: Jan/23/2014
JOB No. 6374.14.0714	SCALE: 1" = 200'
	SHT. 12 OF 19
DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg	



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DATE	BY	DESCRIPTION
		REVISION

DRAWN BY: P.E.W. CHKD. BY: R.M.J.
DATE: Jan/23/2014 DATE: Jan/23/2014
JOB No. SCALE: SHT. 13
6374.14.0714 1" = 200' OF 19
DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg



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DATE: Jan/23/2014	DATE: Jan/23/2014
JOB No. 6374.14.0714	SCALE: 1" = 200'
	SHT. 14
	OF 19

DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg



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DATE: Jan/23/2014	DATE: Jan/23/2014
JOB No. 6374.14.0714	SCALE: 1" = 200'
	SHT. 17 OF 19
DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg	



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DATE	BY	DESCRIPTION
REVISION		

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DATE: Jan/23/2014	DATE: Jan/23/2014
JOB No. 6374.14.0714	SCALE: 1" = 200'
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	OF 19

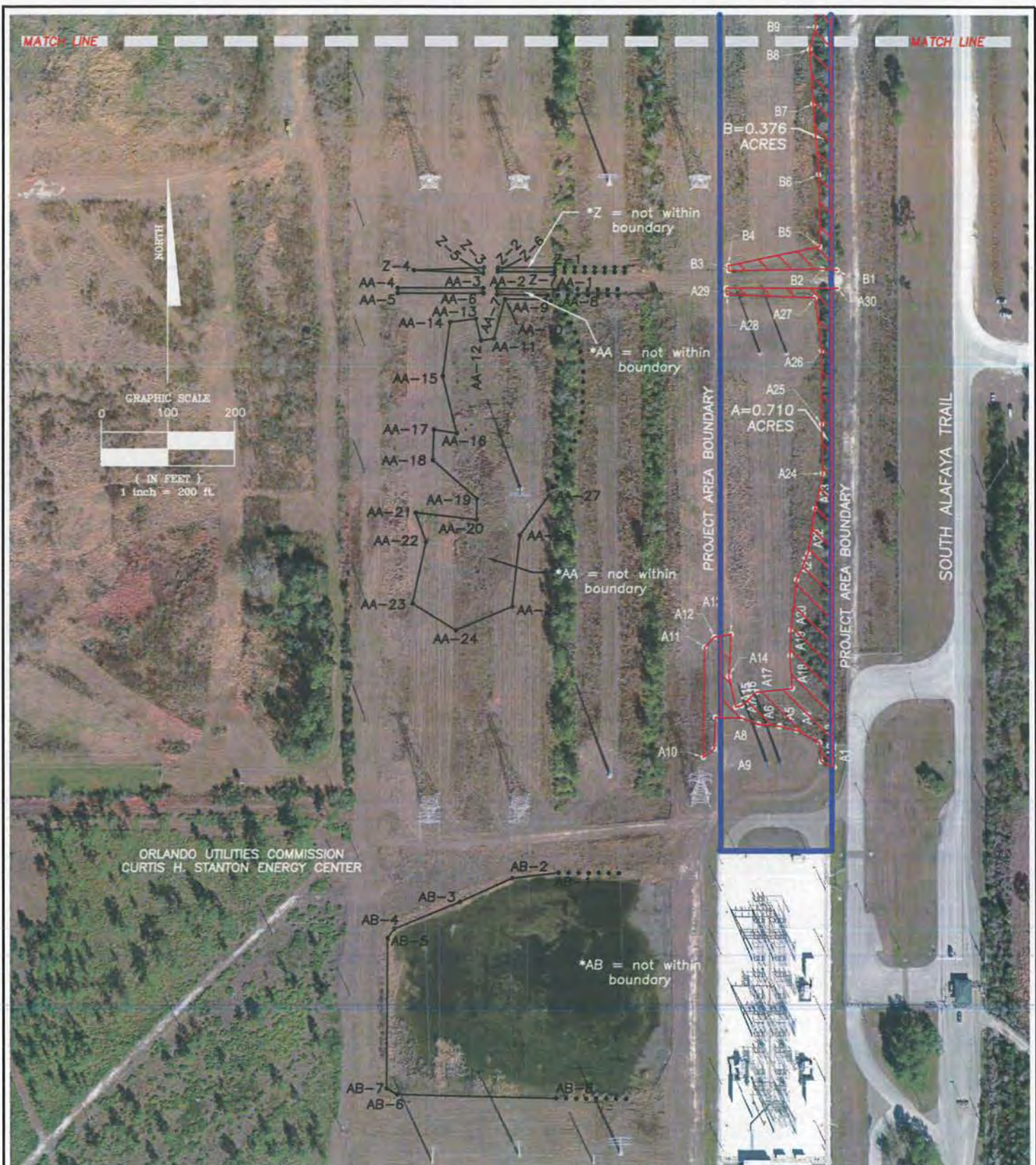
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(325) 336-5600



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PROJECT TITLE: SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION ORLANDO UTILITIES COMMISSION						DRAWN BY: P.E.W. DATE: Jan/23/2014		CHKD. BY: R.M.J. DATE: Jan/23/2014	
						JOB No. 6374.14.0714		SCALE: 1" = 200'	
								SHT. 19 OF 19	
DATE BY DESCRIPTION				DRAWING NAME: 0714 SEC Pershing 115KV r1.dwg					
REVISION									



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GOLDER ASSOCIATES
6026 NW 1st Place,
Gainesville,
Florida 31607
(325) 336-5600

ATTACHMENT D

ADJACENT PROPERTY OWNERS

ATTACHMENT D: ADJACENT PROPERTY OWNERS

MAP ID	PARCEL	OWNER	STREET ADDRESS	CITY	STATE	ZIP
1	302310000000013	VENTURA COUNTRY CLUB COMMUNITY HOMEOWNERS ASSN INC	3333 WOODGATE BLVD	ORLANDO	FL	32822
2	302311727800010	SOTO JUAN A	7505 QUAIL POND ST	ORLANDO	FL	32822
3	302311727101050	WOODS PATRICIA A	3818 SPOONBILL AVE	ORLANDO	FL	32822
4	302311685100071	SOUFFRONT MARIA RIVERA	3004 JON JON CT	ORLANDO	FL	32822
5	302311727800110	CINTRON CATALINO	7561 QUAIL POND ST	ORLANDO	FL	32822
6	302311727101020	VILLAGOMEZ ENRIQUE	10559 N US 19	GREENVILLE	FL	32331
7	302310303200911	SCHOOL BOARD OF ORANGE COUNTY FLORIDA	445 W AMELIA ST	ORLANDO	FL	32801
8	302310303201030	CITY OF ORLANDO	PO BOX 3193	ORLANDO	FL	32802
9	302312128000430	VALE WIDALYS	3216 RED WING CT	ORLANDO	FL	32829
10	302312128000290	NIEVES HECTOR	8444 MATTITUCK CIR	ORLANDO	FL	32829
11	302312187600450	MEJIA JOSE M	3152 CURRY WOODS CIR	ORLANDO	FL	32822
12	302312130004180	REYES ELIEZER	8916 HAVASU DR	ORLANDO	FL	32829
13	302312130004120	LANEY MARCUS BRADFORD	8834 HAVASU DR	ORLANDO	FL	32829
14	302312234006630	CORDEN EVELYN T	8017 LASO WAY	ORLANDO	FL	32822
15	302312234006960	RODRIGUEZ MARIANA	PO BOX 780022	ORLANDO	FL	32878
16	302312234006980	MCLACKLAN LISA	1744 MALON BAY DR	ORLANDO	FL	32828
17	302312126500040	ELLIS WILLIAM F	3649 SW 86TH TER	OCALA	FL	34481
18	302312129501210	CASTLEBURY JOE T	3478 FOX HOLLOW DR	ORLANDO	FL	32829
19	302311897300435	CARDONA BEATRICE H	PO BOX 410029	SAN FRANCISCO	CA	94141
20	302311897300460	CASTRO ELAINE PRISCILLA	7850 SAGEBRUSH PL	ORLANDO	FL	32822
21	302312128000420	CHIARO NANCY C LIFE ESTATE	311 OAK HILL DR	ALTAMONTE SPRINGS	FL	32701
22	302312128000370	ANTHONY MARY I	8476 MATTITUCK CIR	ORLANDO	FL	32829
23	302311890300390	TYSON RICCO T	2940 CURRY VILLAGE LN	ORLANDO	FL	32822
24	302311897300420	GARCIA CARMEN L	7874 SAGEBRUSH PL	ORLANDO	FL	32822
25	302312126500010	COLLINS MICHAEL S	8323 SCARBOROUGH CT	ORLANDO	FL	32829
26	302312234006610	MESA NORMA ACEVEDO	3815 BRYSTON DR	ORLANDO	FL	32822
27	302312126500001	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
28	302312129501280	LEWIS FAMILY TRUST	9447 W RUSTICA DR	BOISE	ID	83709

MAP ID	PARCEL	OWNER	STREET ADDRESS	CITY	STATE	ZIP
29	302312129501270	KIRLEW JANET L	3514 FOX HOLLOW DR	ORLANDO	FL	32829
30	302312128000270	DE FREITAS GILBERT M	8436 MATTITUCK CIR	ORLANDO	FL	32829
31	302312000000017	JUNEBY HANS B	8846 HAVASU DR	ORLANDO	FL	32829
32	302312234006970	LINHARES STEPHEN E	8141 LASO CT	ORLANDO	FL	32822
33	302312236600070	QUINTANA MARINA	1921 HEATHWOOD DR	WINTER PARK	FL	32792
34	302312236600080	MORALES HERIBERTO C	3810 JANIE CT	ORLANDO	FL	32822
35	302312126500110	LACORTE DENISE S	2102 10TH ST	ORLANDO	FL	32820
36	302312234006680	MUNIZ LEONIDA	8067 LASO WAY	ORLANDO	FL	32822
37	302312234006930	PASSMORE GARY L	8109 LASO CT	ORLANDO	FL	32822
38	302312234006950	BENAVIDES CARLOS A	8125 LASO CT	ORLANDO	FL	32822
39	302312129510000	CHICKASAW TRAILS HOMEOWNERS ASSN	C/O PREIDENTIAL GROUP SOUTH	ALTAMONTE SPRINGS	FL	32714
40	302312129501290	MUNOZ GILBERTO L	3526 FOX HOLLOW DR	ORLANDO	FL	32829
41	302312187600490	BETZ DAVID G	3168 CURRY WOODS CIR	ORLANDO	FL	32822
42	302312187600440	CARABALLO NEREIDA	3148 CURRY WOODS CIR	ORLANDO	FL	32822
43	302310303200510	ADVENTIST HEALTH SYSTEM/SUNBELT INC	601 E ROLLINS ST	ORLANDO	FL	32803
44	302310736100001	RESERVE AT PERSHING OAKS CONDOMINIUM ASSN INC	4408 HECTOR CT	ORLANDO	FL	32822
45	302311890300405	LOZANO MAGDA	7800 SAGEBRUSH PL	ORLANDO	FL	32822
46	302311890300445	WHITE BRENDA L	7824 SAGEBRUSH PL	ORLANDO	FL	32822
47	302311727100810	TOLEDO ANGEL M	7837 COOT ST	ORLANDO	FL	32822
48	302311727100850	ACOSTA MILENA	7813 COOT ST	ORLANDO	FL	32822
49	302311727100840	CAMAN ENTERPRISES LLC	5015 LOYOLA LN	ORLANDO	FL	32821
50	302312128000310	RICE BEVERLY ANN	8452 MATTITUCK CIR	ORLANDO	FL	32829
51	302311727101000	JIMENEZ VICTOR H	7619 COOT ST	ORLANDO	FL	32822
52	302311685100070	CARDONA SILVIO	1509 ABBERTON DR	ORLANDO	FL	32837
53	302311727800100	MEDINA MARIA J	7555 QUAIL POND ST	ORLANDO	FL	32822
54	302311685100080	JONES HAROLD DEAN	3012 JON JON CT	ORLANDO	FL	32822
55	302311685100073	CHAVES-SOLER ANGEL	3006 JON JON CT	ORLANDO	FL	32822
56	302311890300440	CASTILLO CARMEN I	7826 SAGEBRUSH PL	ORLANDO	FL	32822
57	302311727100800	CULILAP JUNAR	7843 COOT ST	ORLANDO	FL	32822
58	302311727100980	GIBSON TANA S	2316 ISLAND CLUB WAY	ORLANDO	FL	32822

MAP ID	PARCEL	OWNER	STREET ADDRESS	CITY	STATE	ZIP
59	302311897300465	VALDES JENNIFER	7848 SAGEBRUSH PL	ORLANDO	FL	32822
60	302311890300410	SIMMONS DETRICK T	7808 SAGEBRUSH PL	ORLANDO	FL	32822
61	302311890300415	DIAZ IVETTE L	7806 SAGEBRUSH PL	ORLANDO	FL	32822
62	302311727100770	REYES LEONARDO A	7917 COOT ST	ORLANDO	FL	32822
63	302311727100900	DIAZ JIMMY	10609 MERE PKWY	ORLANDO	FL	32832
64	302311727100940	ORTIZ CARMEN	7707 COOT ST	ORLANDO	FL	32822
65	312309020600420	ADCOCK JOHN J	3274 BREAKERS WAY	ORLANDO	FL	32825
66	312308017300001	ANDOVER LAKES PHASE 3 HOMEOWNERS ASSN INC	2269 LEE RD	WINTER PARK	FL	32789
67	312312000000002	REDDITT JOAN TR 30% INT	2647 BASS LAKE BLVD	ORLANDO	FL	32806
68	312309016700002	ANDOVER LAKES PHASE 2 HOMEOWNERS ASSN INC	4700 MILLENIA BLVD STE 515	ORLANDO	FL	32839
69	312307000000015	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
70	312308205100005	EMF FUND II LLC	69 LAKE EDEN DR STE 100A	BOYNTON BEACH	FL	33435
71	312308205100008	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
72	312308205100002	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
73	312307000000003	RELIANCE TRUST COMPANY TRUSTEE	C/O R JOHN NADJAFI ESQ	ORLANDO	FL	32801
74	312307000000005	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
75	312309020600006	ANDOVER CAY HOMEOWNERS ASSOCIATION INC	101 PARK PLACE BLVD STE 2	KISSIMMEE	FL	34741
76	312309000000004	CENTRAL FLORIDA YMCA FOUNDATION INC	433 N MILLS AVE	ORLANDO	FL	32803
77	312309016700003	ANDOVER LAKES PHASE 2 HOMEOWNERS ASSN INC	4700 MILLENIA BLVD STE 515	ORLANDO	FL	32839
78	312309000000011	CENTRAL FLORIDA YMCA FOUNDATION INC	433 N MILLS AVE	ORLANDO	FL	32803
79	302311897300430	MARTINEZ MILKO VIANO	7868 SAGEBRUSH PL	ORLANDO	FL	32822
80	302311890300400	OUTLAW JENNY L	7802 SAGEBRUSH PL	ORLANDO	FL	32822
81	302312000000090	STINSON KIM L	858 MOSSHART LN	ORLANDO	FL	32825
82	302312187600420	FOREMAN DORIS GRAHAM	3000 BRONX PARK E APT 5N	BRONX	NY	10467
83	302312234006670	GOMEZ MELBA L	8057 LASO WAY	ORLANDO	FL	32822

MAP ID	PARCEL	OWNER	STREET ADDRESS	CITY	STATE	ZIP
84	302312126500090	TRANTER RONALD B	8213 SCARBOROUGH CT	ORLANDO	FL	32829
85	302311727101040	THOMPSON FRED M	3808 SPOONBILL AVE	ORLANDO	FL	32822
86	302312126500030	CANNIZZARO VICTOR N TR	487 PARK AVE	MANHASSET	NY	11030
87	302312129501220	LE HAI M	3164 N JOG RD APT 9104	WEST PALM BEACH	FL	33411
88	302311727100910	MIDFIRST BANK	7725 COOT ST	ORLANDO	FL	32822
89	302311000000030	FLORIDA POWER CORP	PO BOX 14042	ST PETERSBURG	FL	33733
90						
91	302311547702000	MARBELLA COVE II L L L P	1551 SANDSPUR RD	MAITLAND	FL	32751
92	302311890300435	TRINCHITELLA FRANK J	7818 SAGEBRUSH PL	ORLANDO	FL	32822
93	302312000000065	SCHOOL BOARD OF ORANGE COUNTY FLORIDA	445 W AMELIA ST	ORLANDO	FL	32801
94	302312126500100	NUNEZ JOSEPH	8207 SCARBOROUGH CT	ORLANDO	FL	32829
95	312312000000007	ALAFAYA TH TRACT 9 LLC	C/O PARKS DEFILIPPO & ASSOC P A	MAITLAND	FL	32751
96	302311685100063	BARKSDALE MARY	3001 JON JON CT	ORLANDO	FL	32822
97	302312234006650	GUTIERREZ RICHARD	5242 FORMBY DR	ORLANDO	FL	32812
98	302312126500050	CORTES MIGUEL A	8237 SCARBOROUGH CT	ORLANDO	FL	32829
99	302311000000012	BANKSTON DEVELOPMENT GROUP INC 50%	PO BOX 2546	WINTER PARK	FL	32790
100	302311685100062	GREEN S G	1608 MORNINGSIDE DR	ORLANDO	FL	32806
101	302311890300425	CINTRON ADOLFO	7812 SAGEBRUSH PL	ORLANDO	FL	32822
102	302311685100053	GIRALDO FAUNIER A	3017 JON JON CT	ORLANDO	FL	32822
103	302312128000340	MILLER MARTIN W	8464 MATTITUCK CIR	ORLANDO	FL	32829
104	302312126500080	LANTIERI LISSETTE	117 LENA ANN DR	SAINT CLOUD	FL	34771
105	302310818533101	PREISSEL WILLIAM F	6878 STERLING GREENS CT APT 202	NAPLES	FL	34104
106	312309016800009	ANDOVER LAKES PHASE 2 HOMEOWNERS ASSN INC	4700 MILLENIA BLVD STE 515	ORLANDO	FL	32839
107	302310613302072	APONTE RIVERA MARIA E	FONTAINEBLEU PLAZA APT 1203	GUAYNABO	PR	969
108	302310613302012	WALTER SPILETIC TRUST	6128 SUNNYVALE DR	ORLANDO	FL	32822

MAP ID	PARCEL	OWNER	STREET ADDRESS	CITY	STATE	ZIP
109	302310613302021	INGVARSSON KRISTJAN	3900 SOUTHPOINTE DR APT 116	ORLANDO	FL	32822
110	302310613302052	ACEVEDO DE RAUSEO ANA MARIA	AV PRINCIPAL UIBANIZACION PRADOS DEL	MILAGROS CARACAS	XX	1080
111	302310613302062	STAFF STARFSMANNAFEVAG ICELANDAIR	5100 MULI 11	REYKJAVIK	XX	108
112	302310613302042	LARACUENTE JOEL ERIC RIVERA	PO BOX 28	VEGA BAJA	PR	694
113	302310613302022	PETERSON MARY FRANCES	3900 SOUTHPOINTE DR APT 123	ORLANDO	FL	32822
114	302310613302041	SPILETTIC JOE A	3900 SOUTHPOINTE DR APT 118	ORLANDO	FL	32822
115	302310613302032	BANK OF NEW YORK MELLON TRUSTEE	2900 N MADERA RD	SIMI VALLEY	CA	93065
116	302310613301031	CARR ALICIA J	3900 SOUTHPOINTE DR APT 103	ORLANDO	FL	32822
117	302310818533201	FREUDEMAN ROGER H	3998 ATRIUM DR	ORLANDO	FL	32822
118	302310818533206	BOYER SUZANNE	2102 PELICAN CT	TARPON SPRINGS	FL	34689
119	302310818534101	PARHAM BETTIE	3956 ATRIUM DR	ORLANDO	FL	32822
120	302310818534201	PREISSEL RICK	6878 STERLING GREENS CT APT 202	NAPLES	FL	34104
121	302310818534202	BRUEFACH/BOLOGNA TRUST	2551 SQUAW CRK	CLERMONT	FL	34711
122	302310818534203	VALETUTTI ANTHONY	6 GLEN HOLLOW DR APT A26	HOLTSVILLE	NY	11742
123	302310818535103	HALL JOHN	333 FIRST NH TPKE	NORTHWOOD	NH	3261
124	302310818533102	CIANFAGLIONE LUISA R	3986 ATRIUM DR	ORLANDO	FL	32822
125	302310818535107	FRANCES W REAVES TRUST	5508 FAIRFAX ST	ORLANDO	FL	32812
126	302310818536202	DORE STEVEN B	98 EAGLE DR	ROCHESTER	NH	3868
127	302310818533202	NAZARIO JOSE D	4000 ATRIUM DR	ORLANDO	FL	32822
128	302310818533205	THIBAUD BRUCE J	4006 ATRIUM DR UNIT 4	ORLANDO	FL	32822
129	302310818536102	PUGLIANO ANTHONY L	1515 RIVER RD	SAINT CLAIR	MI	48079
130	302310613301042	BELLANGER CLAUDE L	3900 SOUTHPOINTE DR APT 111	ORLANDO	FL	32822
131	302310818536206	DRAPEAU RONALD F	60 SHARON DR	WALLINGFORD	CT	6492
132	302310818536107	TUTTLE JUDY E	2557 SANDLEWOOD CIR	ORANGE PARK	FL	32065

MAP ID	PARCEL	OWNER	STREET ADDRESS	CITY	STATE	ZIP
133	302310613301061	PIMPAN PRAPAPORN	3900 SOUTHPOINTE DR APT 106	ORLANDO	FL	32822
134	302310818534204	DALLAIRE FRANCES S TR	83 DUTTON RD	PELHAM	NH	3076
135	302310818535102	FEDELE JOSEPH JR	8 CEDARCLIFF RD	STATEN ISLAND	NY	10301
136	302310818535104	GONZALEZ JOSE L	3934 ATRIUM DR	ORLANDO	FL	32822
137	302310818535106	CASTELLS MICHELLE	3938 ATRIUM DR	ORLANDO	FL	32822
138	302310818535105	ELSEY WAYNE	2133 LAKESHORE DR	OLD HICKORY	TN	37138
139	302310818535205	PARENT JOSEPHINE C LIFE ESTATE	114 EMERSON RD APT B204	LONGMEADOW	MA	1106
140	302310818536105	FEATHER JAMES E TR	19 WATERCRESS DR	ROCHESTER	NH	3868
141	302310613301012	CHARBONNEAU RENE A	84 MIDDLEBORO RD	EAST FREETOWN	MA	2717
142	302312130004200	JASIKIEWICZ JEREMY	8928 HAVASU DR	ORLANDO	FL	32829
143	302312234006640	BROWN HERBERT C	8027 LASO WAY	ORLANDO	FL	32822
144	302312236600060	WYSOCKI ERIC	3803 JANIE CT	ORLANDO	FL	32822
145	302312128000440	ELAM EVERETT J	3209 RED WING CT	ORLANDO	FL	32829
146	302311727100790	KOWALEWSKI JOANNE	7901 COOT ST	ORLANDO	FL	32822
147	302310889600008	VENTURA COUNTRY CLUB COMMUNITY HOMEOWNERS ASSN INC	C/O PROPERTY MANAGER	ORLANDO	FL	32822
148	302312128000300	BRIDWELL JAMES	8448 MATTITUCK CIR	ORLANDO	FL	32829
149	302312129501230	VELEZ RICHARD	3490 FOX HOLLOW DR	ORLANDO	FL	32829
150	312308374500007	YOUNG PINE HOMEOWNERS ASSOCIATION INC	1330 PALMETTO AVE	WINTER PARK	FL	32789
151	312309020600240	NEISWENDER STEVEN SCOTT	13051 GRAND BANK LN	ORLANDO	FL	32825
152	312308017400003	LAKE UNDERHILL JOINT VENTURE	1700 S BUMBY AVE	ORLANDO	FL	32806
153	312308000000010	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
154	312308000000013	CENTRAL FLORIDA YMCA FOUNDATION INC	433 N MILLS AVE	ORLANDO	FL	32803
155	302312126500070	PERDUE DEBRA A	8225 SCARBOROUGH CT	ORLANDO	FL	32829
156	302312000000064	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
157	302311727100760	ANTON STACEY A	7925 COOT ST	ORLANDO	FL	32822

MAP ID	PARCEL	OWNER	STREET ADDRESS	CITY	STATE	ZIP
158	312312000000008	ALAFAYA SF PROPERTIES LLC	C/O PARKS DEFILIPPO & ASSOC P A	MAITLAND	FL	32751
159	302310613302071	PEREZ ANGEL	3900 SOUTHPOINTE DR APT 121	ORLANDO	FL	32822
160	302310613302061	CASTIGLIONE LOUIS J	3375 SANTA MONICA DR	ORLANDO	FL	32822
161	302310818536205	GABRIELE NICHOLAS M	3922 ATRIUM DR	ORLANDO	FL	32822
162	302310613301032	RIVERA LUIS A	12435 HOLLY JANE CT	ORLANDO	FL	32824
163	302310613301022	RIDGWAY ELIZABETH	3900 SOUTHPOINTE DR APT 109	ORLANDO	FL	32822
164	302311727800040	DE LA ROSA JULIO J	7519 QUAIL POND ST	ORLANDO	FL	32822
165	302311727800030	MOJICA DENNIS	7515 QUAIL POND ST	ORLANDO	FL	32822
166	302310303200521	ADVENTIST HEALTH SYSTEM/SUNBELT INC	601 E ROLLINS ST	ORLANDO	FL	32803
167	302312128000360	PILIOS DIANA	C/O CONSTANDINA PILIOS	ORLANDO	FL	32829
168	302311897300450	YUN MANJAE	7856 SAGEBRUSH PL	ORLANDO	FL	32822
169	302311727100830	MENDEZ MELVYN	7825 COOT ST	ORLANDO	FL	32822
170	302311685100050	KAISER KATHRYN L	3013 JON JON CT	ORLANDO	FL	32822
171	302311727100960	SANCHEZ NOEMI	7643 COOT ST	ORLANDO	FL	32822
172	302311727100930	DAVID S WENGER TRUST 1/2 INT	1007 QUINWOOD LN	MAITLAND	FL	32751
173	312309020600410	ARMAS JACK H	3275 BREAKERS WAY	ORLANDO	FL	32825
174	302311000000019	CITY OF ORLANDO	PO BOX 3193	ORLANDO	FL	32802
175	302311685100051	MOORE SANDRA S	101 FOX CHASE RD	EASLEY	SC	29640
176	302311890300420	MARTINEZ MINERVA	7814 SAGEBRUSH PL	ORLANDO	FL	32822
177	312309020600250	DINH SEN THI	13050 GRAND BANK LN	ORLANDO	FL	32825
178	312309016800001	ANDOVER LAKES PHASE 2 HOMEOWNERS ASSN INC	4700 MILLENIA BLVD STE 515	ORLANDO	FL	32839
179	302312187600480	CASTILLO MONICA	2308 BEXLEY PL	CASSELBERRY	FL	32707
180	302312126500020	REPPENHAGEN CORDEL	8317 SCARBOROUGH CT	ORLANDO	FL	32829
181	302310818534104	SULLIVAN JOHN B	3780 VENTURA COVE DR	ORLANDO	FL	32822
182	302310818536101	OJEDA JUAN I	3900 ATRIUM DR	ORLANDO	FL	32822
183	312312000000004	CITY OF ORLANDO	PO BOX 3193	ORLANDO	FL	32802
184	302311727100780	JOHNSTON RONALD ANTHONY	7909 COOT ST	ORLANDO	FL	32822

MAP ID	PARCEL	OWNER	STREET ADDRESS	CITY	STATE	ZIP
185	302311897300475	MALDONADO ALEXANDRA	7842 SAGEBRUSH PL	ORLANDO	FL	32822
186	312308017300006	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
187	312308374500008	YOUNG PINE HOMEOWNERS ASSOCIATION INC	1330 PALMETTO AVE	WINTER PARK	FL	32789
188	312309020600001	ANDOVER CAY HOMEOWNERS ASSOCIATION INC	101 PARK PLACE BLVD STE 2	KISSIMMEE	FL	34741
189	322307000000001	CITY OF ORLANDO	PO BOX 3193	ORLANDO	FL	32802
190	302311685100072	AZULAY BARAK	6611 TIME SQUARE AVE APT 104	ORLANDO	FL	32835
191	302310303200981	SAS FOUNTAINS AT PERSHING PARK LTD	700 W MORSE BLVD STE 220	WINTER PARK	FL	32789
192	302311727100890	SUAREZ MATILDE	7737 COOT ST	ORLANDO	FL	32822
193	312309020600003	ANDOVER CAY HOMEOWNERS ASSOCIATION INC	101 PARK PLACE BLVD STE 2	KISSIMMEE	FL	34741
194	302310818536207	COOK CHARLES F	383 BURNT SWAMP RD	WRENTHAM	MA	2093
195	302310818535203	GANDIA PEDRO J	3946 ATRIUM DR	ORLANDO	FL	32822
196	302310613301052	GEORGE M GLADSTONE TRUST	8233 CLAY CT	STERLING HEIGHTS	MI	48313
197	302311727101030	HERNANDEZ ELVIN	7601 COOT ST	ORLANDO	FL	32822
198	302312128000280	ROMANO JOHN V	8440 MATTITUCK CIR	ORLANDO	FL	32829
199	302312187600430	JOHNSON CURTIS W	3144 CURRY WOODS CIR	ORLANDO	FL	32822
200	302312129501190	ADAMS MATTHEW PAUL	3466 FOX HOLLOW DR	ORLANDO	FL	32829
201	302312236600050	BODSHAUG LAURIE A	3809 JANIE CT	ORLANDO	FL	32822
202	302311727100860	KOLAKOWSKI THOMAS J	7807 COOT ST	ORLANDO	FL	32822
203	302311897300470	GARCIA SOTERO	7844 SAGEBRUSH PL	ORLANDO	FL	32822
204	312308000000012	CENTRAL FLORIDA YMCA FOUNDATION INC	433 N MILLS AVE	ORLANDO	FL	32803
205	302311727100880	PIERRE PETER	7743 COOT ST	ORLANDO	FL	32822
206	302311685100061	MEYER MARY ANN	3003 JON JON CT	ORLANDO	FL	32822
207	302311727800070	MATOS NELIDA	7537 QUAIL POND ST	ORLANDO	FL	32822
208	302311727100920	CASTRO MARIO	7719 COOT ST	ORLANDO	FL	32822
209	302311727800050	GONZALEZ REINALDO	7525 QUAIL POND ST	ORLANDO	FL	32822
210	302310613302031	INGVARSSON KRISTJAN	6573 AUTUMN COVE DR	ORLANDO	FL	32822
211	302310818534103	MUDAFORT JOSE M	15 ACCESS RD	BEVERLY	MA	1915
212	302310818533204	TOWNSEND CURTIS L	3328 BANNEKER DR NE	WASHINGTON	DC	20018

MAP ID	PARCEL	OWNER	STREET ADDRESS	CITY	STATE	ZIP
213	302310613301051	MARTINEZ FERNANDO L	3900 SOUTHPOINTE DR APT 105	ORLANDO	FL	32822
214	302310818536106	VILLEGAS LIZERETH	3910 ATRIUM DR	ORLANDO	FL	32822
215	302310818534107	GARUS MARY LOUISE	3968 ATRIUM DR	ORLANDO	FL	32822
216	302310000000017	VENTURA COUNTRY CLUB COMMUNITY HOMEOWNERS ASSN INC	C/O PROPERTY MANAGER	ORLANDO	FL	32822
217	302312129501200	SMITH RICHARD E	3472 FOX HOLLOW DR	ORLANDO	FL	32829
218	302311890300001	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
219	302310683900010	CITY OF ORLANDO	PO BOX 3193	ORLANDO	FL	32802
220	302310613301011	DOBSON FRANCESCA K	202 SQUINES LN	LONDON	XX	N32QT
221	302312234006660	RIVERA IDIO R	8047 LASO WAY	ORLANDO	FL	32822
222	302311727100990	MALDONADO RICHARD	7625 COOT ST	ORLANDO	FL	32822
223	302311685100060	FOUR WINDS ECCLESIA INC	3325 GLEN VILLAGE CT	ORLANDO	FL	32822
224	312308374701000	FALCON PINES APARTMENTS LP	225 NE MIZNER BLVD STE 400	BOCA RATON	FL	33432
225	312322000000001	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
226	312307000000006	FLORIDA POWER CORP	PO BOX 14042	ST PETERSBURG	FL	33733
227	302311685100052	HENRY MICHAEL L	PO BOX 780083	ORLANDO	FL	32878
228	302310613302051	MATEO HIRAM	3900 SOUTHPOINTE DR APT 119	ORLANDO	FL	32822
229	302310613301072	RIVERA LUIS R	3900 SOUTHPOINTE DR APT 114	ORLANDO	FL	32822
230	302310818533106	CRUZ VIRGEN	3994 ATRIUM DR UNIT 1633	ORLANDO	FL	32822
231	302310818533104	ELSEY WAYNE	2133 LAKESHORE DR	OLD HICKORY	TN	37138
232	302310818534106	VIDON CORP	3966 ATRIUM DR	ORLANDO	FL	32822
233	302310818536201	HEBERT RUSSELL J JR	2019 SEPLER CT	FERN PARK	FL	32730
234	302310818533107	BESWICK PHILIP GRANT	BRYNMOR BARIT RD EASTINGTON	GLOUCESTERSHIRE	XX	GL10
235	302312000000093	STAATS GEORGE	605 S ALDER AVE	ORLANDO	FL	32807
236	302312128000350	CARDENAS DAYAMI	8468 MATTITUCK CIR	ORLANDO	FL	32829
237	302312130004190	NELMS KAREN A	8922 HAVASU DR	ORLANDO	FL	32829
238	302312129501250	BONIFACIO JOSEPH	3502 FOX HOLLOW DR	ORLANDO	FL	32829
239	302312129712000	CHICKASAW TRAILS HOMEOWNERS ASSN	C/O PREIDENTIAL GROUP SOUTH	ALTAMONTE SPRINGS	FL	32714

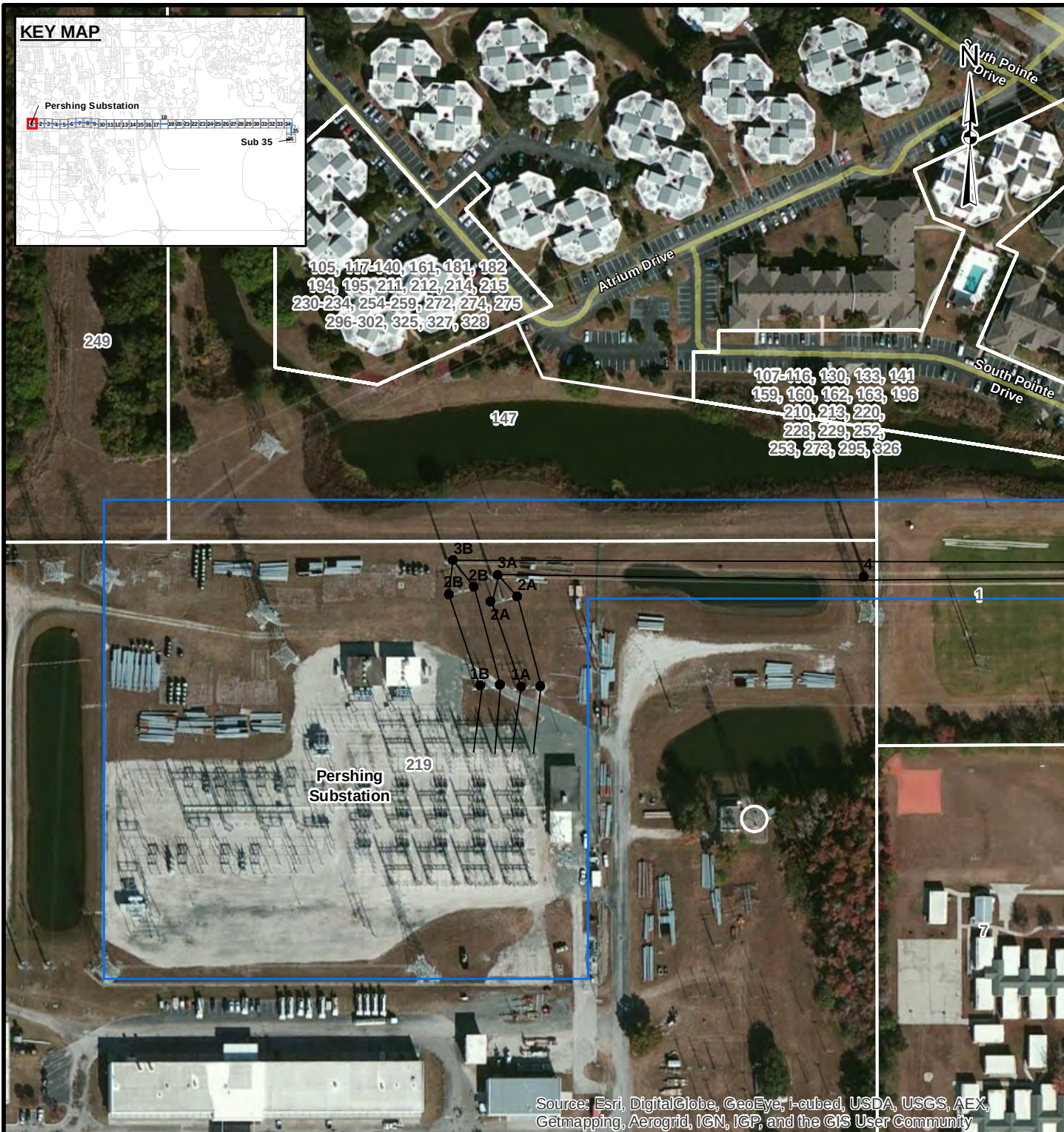
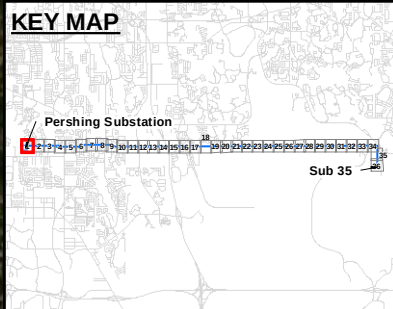
MAP ID	PARCEL	OWNER	STREET ADDRESS	CITY	STATE	ZIP
240	302311897300445	COBO EDINSON	7858 SAGEBRUSH PL	ORLANDO	FL	32822
241	302311727100950	PAGAN RENE	7701 COOT ST	ORLANDO	FL	32822
242	302311890300430	BENCOSME CESAR	7820 SAGEBRUSH PL	ORLANDO	FL	32822
243	312307000000004	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
244	312308017400001	LAKE UNDERHILL JOINT VENTURE	1700 S BUMBY AVE	ORLANDO	FL	32806
245	312307000000012	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
246	312309000000002	CENTRAL FLORIDA YMCA FOUNDATION INC	433 N MILLS AVE	ORLANDO	FL	32803
247	302311727800090	HUMPHREY LUNA	7549 QUAIL POND ST	ORLANDO	FL	32822
248	302312129501240	HOSKINS JILL L	3496 FOX HOLLOW DR	ORLANDO	FL	32829
249	302310000000018	LAKE FREDRICA INVESTMENTS LLC	4435 CURRY FORD RD	ORLANDO	FL	32812
250	312308374500001	YOUNG PINE HOMEOWNERS ASSOCIATION INC	1330 PALMETTO AVE	WINTER PARK	FL	32789
251	302311547701000	MARBELLA POINTE DEVELOPMENT GROUP L L L P	1551 SANDSPUR RD	MAITLAND	FL	32751
252	302310613301062	CERON VICTOR	11019 GROVESHIRE CT	OCOE	FL	34761
253	302310613302011	LEBRON JUAN R	PO BOX 9123	HUMACAO	PR	792
254	302310818533203	RUIZ LORRAINE	4002 ATRIUM DR	ORLANDO	FL	32822
255	302310818536103	ROY HILDA SUSIE	3904 ATRIUM DR	ORLANDO	FL	32822
256	302310818535204	DOVIDIO JANET A	220 FELLVIEW TER APT 225	STONEHAM	MA	2180
257	302310818534206	MASSER MARK	263 BEECH ST	KEARNY	NJ	7032
258	302310818534207	I TAKT EHF LAND TRUST	6143 SUNNYVALE DR	ORLANDO	FL	32822
259	302310818535101	PENNEY ROBERT A	3130 GARDEN CT	SAINT CLOUD	FL	34769
260	302310303200961	CITY OF ORLANDO	PO BOX 3193	ORLANDO	FL	32802
261	302311685100081	FOUR WINDS ECCLESIA INC	3325 GLEN VILLAGE CT	ORLANDO	FL	32822
262	302310303200980	CITY OF ORLANDO	PO BOX 3193	ORLANDO	FL	32802
263	302311897300415	ALMAGUER JENNY	1081 SUMMIT AVE	JERSEY CITY	NJ	7307
264	302312187600510	AMEZQUITA SERGIO	PO BOX 571174	ORLANDO	FL	32857
265	302310303200950	VENTURA COUNTRY CLUB COMMUNITY HOMEOWNERS ASSN INC	3333 WOODGATE BLVD	ORLANDO	FL	32822
266	312309020500003	ANDOVER CAY HOMEOWNERS ASSOCIATION INC	101 PARK PLACE BLVD STE 2	KISSIMMEE	FL	34741

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267	302311817600001	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
268	312308374500002	YOUNG PINE HOMEOWNERS ASSOCIATION INC	1330 PALMETTO AVE	WINTER PARK	FL	32789
269	312308205100001	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
270	302311727800020	WESTLY TRUST	2387 KIMBERWICKE CT	OVIEDO	FL	32765
271	312308017300002	ANDOVER LAKES PHASE 3 HOMEOWNERS ASSN INC	2269 LEE RD	WINTER PARK	FL	32789
272	302310818534105	CRANDALL SHIRLEY I TR	16559 GALEHOUSE RD	DOYLESTOWN	OH	44230
273	302310613301071	SZKUDLAPSKI EDWARD H	6 GLENMORE DR	GLEN MILLS	PA	19342
274	302310818534205	DELGADO ZULEMA	3978 ATRIUM DR APT 4	ORLANDO	FL	32822
275	302310818536104	MICLAU CARLOTTA	7699 ALDERSYDE DR	CLEVELAND	OH	44130
276	302311727101010	DAVID S WENGER TRUST 1/2 INT	1007 QUINWOOD LN	MAITLAND	FL	32751
277	302310303201000	IGLESIA CASA DEL ALFARERO INC	7051 PERSHING AVE	ORLANDO	FL	32822
278	302312130004110	RICE JOSEPH A	8828 HAVASU DR	ORLANDO	FL	32829
279	302312234006940	RAMOS JORGE M	8117 LASO CT	ORLANDO	FL	32822
280	302311897300455	MIRANDE BRANDY J	7854 SAGEBRUSH PL	ORLANDO	FL	32822
281	312308017300005	ANDOVER LAKES PHASE 3 HOMEOWNERS ASSN INC	2269 LEE RD	WINTER PARK	FL	32789
282	302312187600500	BODEMANN CAROLYN M	3172 CURRY WOODS CIR	ORLANDO	FL	32822
283	302311727800060	NOBLE SHAUN M	7531 QUAIL POND ST	ORLANDO	FL	32822
284	302312128000330	FERNANDEZ JUAN D	8460 MATTITUCK CIR	ORLANDO	FL	32829
285	312309016800003	ANDOVER LAKES PHASE 2 HOMEOWNERS ASSN INC	4700 MILLENIA BLVD STE 515	ORLANDO	FL	32839
286	312312000000005	ALAFAYA MF TRACT 8 LLC	C/O PARKS DEFILIPPO & ASSOC P A	MAITLAND	FL	32751
287	302311727100870	GRAVES GARY R	7801 COOT ST	ORLANDO	FL	32822
288	312308374500003	YOUNG PINE HOMEOWNERS ASSOCIATION INC	1330 PALMETTO AVE	WINTER PARK	FL	32789
289	312308205100003	EMF FUND II LLC	69 LAKE EDEN DR STE 100A	BOYNTON BEACH	FL	33435
290	312308017400002	ORANGE COUNTY BCC	C/O REAL ESTATE MNGT DEPT	ORLANDO	FL	32802
291	302312187600460	ZUCHEGNO ANTHONY R	3156 CURRY WOODS CIR	ORLANDO	FL	32822

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292	302312234006620	VELAZQUEZ ANGEL L SR	8007 LASO WAY	ORLANDO	FL	32822
293	302312000000058	KAIDER THOMAS J	3271 S CHICKASAW TRL	ORLANDO	FL	32829
294	302311890300395	LOWE THERESA A	2938 CURRY VILLAGE LN	ORLANDO	FL	32822
295	302310613301021	COLACIOPPO ERIC V	3900 SOUTHPOINTE DR APT 102	ORLANDO	FL	32822
296	302310818533103	FERNANDEZ MARIA E	3988 ATRIUM DR	ORLANDO	FL	32822
297	302310818535201	GATTO KAIRI ELISE	1109 KNOLLWOOD DR	DAVENPORT	FL	33837
298	302310818536204	BRESLIN CHARLES PAUL	6 STONEYWOOD PREHEN	LONDONDERRY	XX	BT47
299	302310818535206	CROSNO JEFFREY D	3952 ATRIUM DR	ORLANDO	FL	32822
300	302310818533105	DIEZ ADALZIRA L	3992 ATRIUM DR	ORLANDO	FL	32822
301	302310818534102	SOTO JOSE A	3958 ATRIUM DR	ORLANDO	FL	32822
302	302310818535207	NICHOLAS KEVIN	3900 SWISS AVE APT 216	DALLAS	TX	75204
303	302311685100082	JAMILLA CONRAD J	3018 JON JON CT	ORLANDO	FL	32822
304	302311727800080	VIVONA RUDY	1074 CEASARS CT	MOUNT DORA	FL	32757
305	302310303201061	GREEN HILL PRESBYTERIAN CHURCH INC	7255 PERSHING AVE	ORLANDO	FL	32822
306	302312128000410	SHEGOBIND STANTON	3208 RED WING CT	ORLANDO	FL	32829
307	302312187600470	MESSING JAMES	3160 CURRY WOODS CIR	ORLANDO	FL	32822
308	302312126500060	BOWLING MICHAEL E	8231 SCARBOROUGH CT	ORLANDO	FL	32829
309	302312129900002	CHICKASAW TRAILS HOMEOWNERS ASSN	C/O PREIDENTIAL GROUP SOUTH	ALTAMONTE SPRINGS	FL	32714
310	302312000000048	CITY OF ORLANDO	PO BOX 3193	ORLANDO	FL	32802
311	302311727100970	NAZARIO CARLOS G	7637 COOT ST	ORLANDO	FL	32822
312	302311897300440	LLORENS FERNANDO R	7862 SAGEBRUSH PL	ORLANDO	FL	32822
313	302311727100820	EUBANKS WENDY	7831 COOT ST	ORLANDO	FL	32822
314	302311685100083	FOUR WINDS ECCLESIA INC	3325 GLEN VILLAGE CT	ORLANDO	FL	32822
315	302311000000023	TABERNACLE OF FAITH OF ORLANDO OF THE CHRISTIAN AND MISSIONARY ALLIANCE INC	PO BOX 720194	ORLANDO	FL	32872
316	302311897300425	MURILLO JUVENTINO O	7870 SAGEBRUSH PL	ORLANDO	FL	32822
317	302312129501260	MASANGKAY LEONARDO T	3508 FOX HOLLOW DR	ORLANDO	FL	32829
318	302311727100750	VIDICA LLC	1970 E OSCEOLA PKWY	KISSIMMEE	FL	34743

MAP ID	PARCEL	OWNER	STREET ADDRESS	CITY	STATE	ZIP
319	312309020600002	ANDOVER CAY HOMEOWNERS ASSOCIATION INC	101 PARK PLACE BLVD STE 2	KISSIMMEE	FL	34741
320	312308205100006	EMF FUND II LLC	69 LAKE EDEN DR STE 100A	BOYNTON BEACH	FL	33435
321	312307000000009	ORLANDO/ORANGE COUNTY EXPY AUTHORITY	4974 ORL TOWER RD	ORLANDO	FL	32807
322	302311897300410	RAMOS ROBERTO	7880 SAGEBRUSH PL	ORLANDO	FL	32822
323	302312128000320	BURKE NICHOLAS K	8456 MATTITUCK CIR	ORLANDO	FL	32829
324	302312000000009	SCHOOL BOARD OF ORANGE COUNTY FLORIDA	445 W AMELIA ST	ORLANDO	FL	32801
325	302310818535202	BARROW DOUGLAS A	3944 ATRIUM DR	ORLANDO	FL	32822
326	302310613301041	AVELINO SERGIO	RUA RIO JUTAI 1139 APTO 1004	MANAUS-AM	XX	69053
327	302310818536203	WHITE LAVORA S	3918 ATRIUM DR	ORLANDO	FL	32822
328	302310818533207	BROWN TARIQ J	4010 ATRIUM DR	ORLANDO	FL	32822

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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Parcels

REFERENCES

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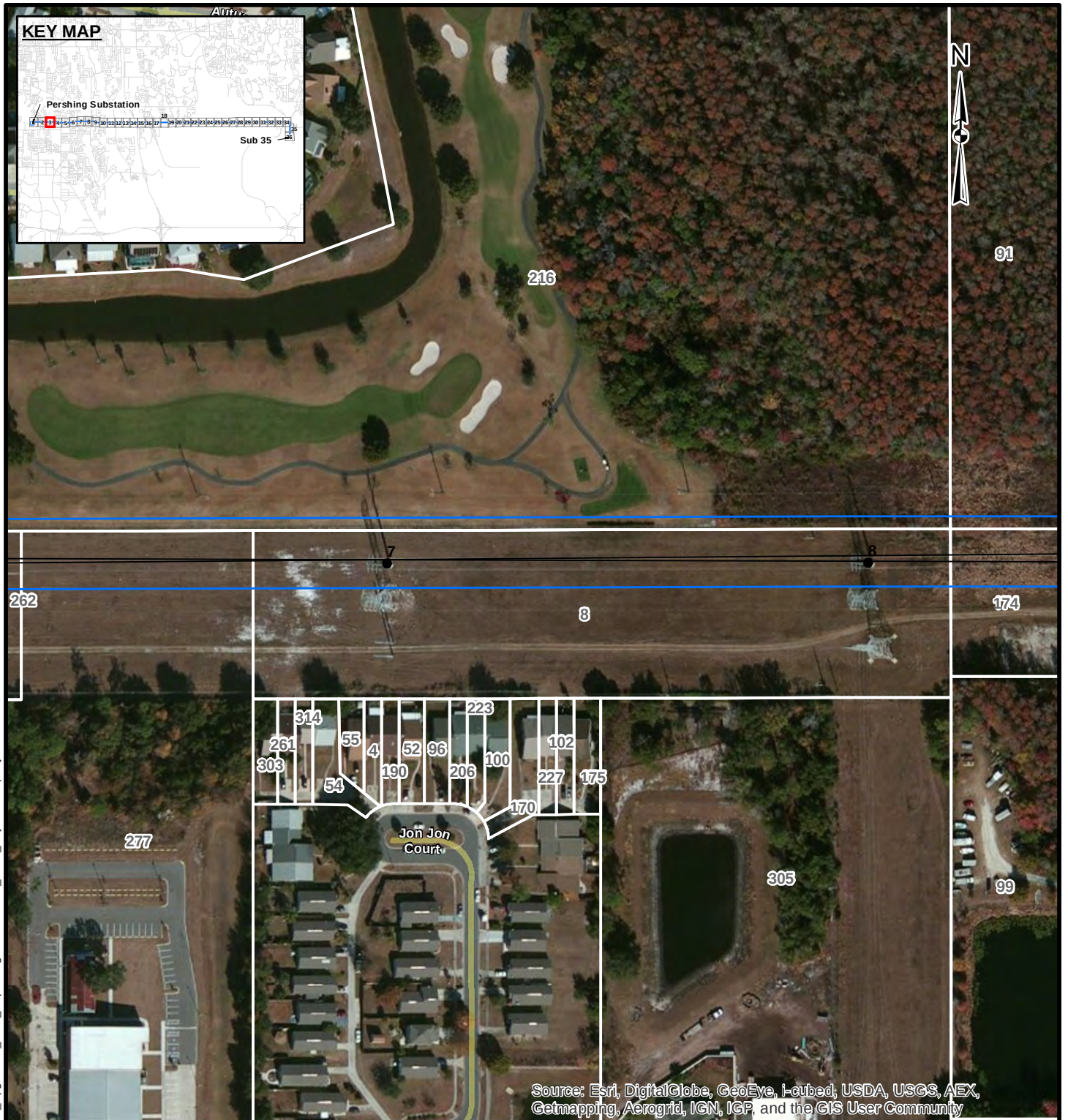
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LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- ▭ Project Area
- ▭ Parcels

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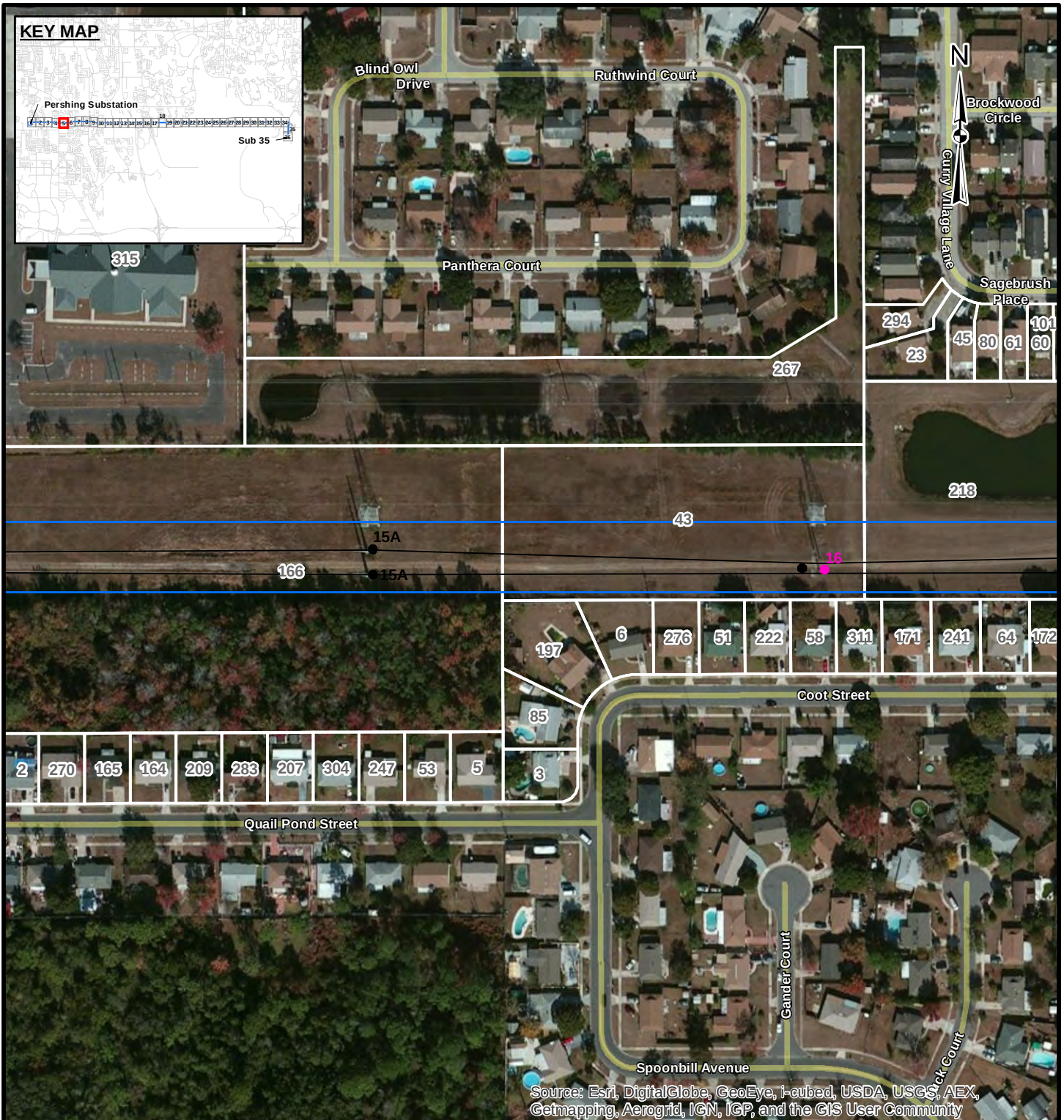
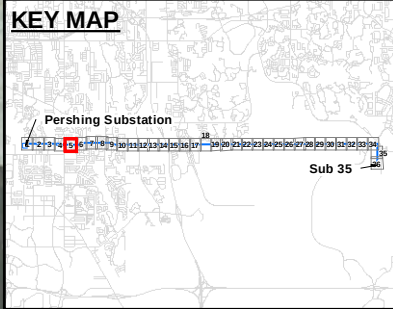
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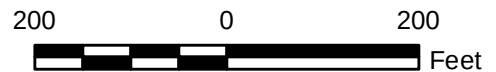
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Parcels

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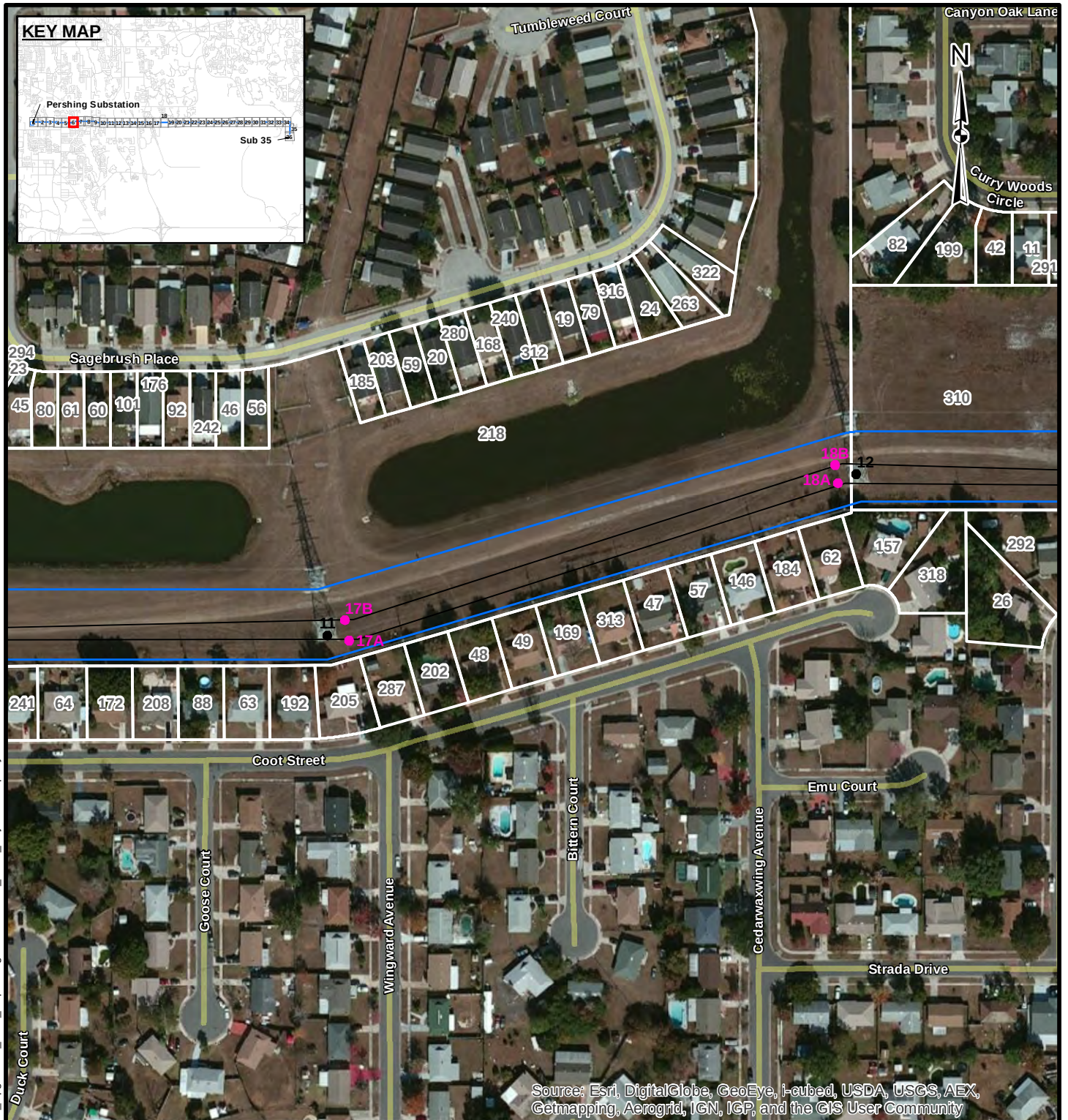
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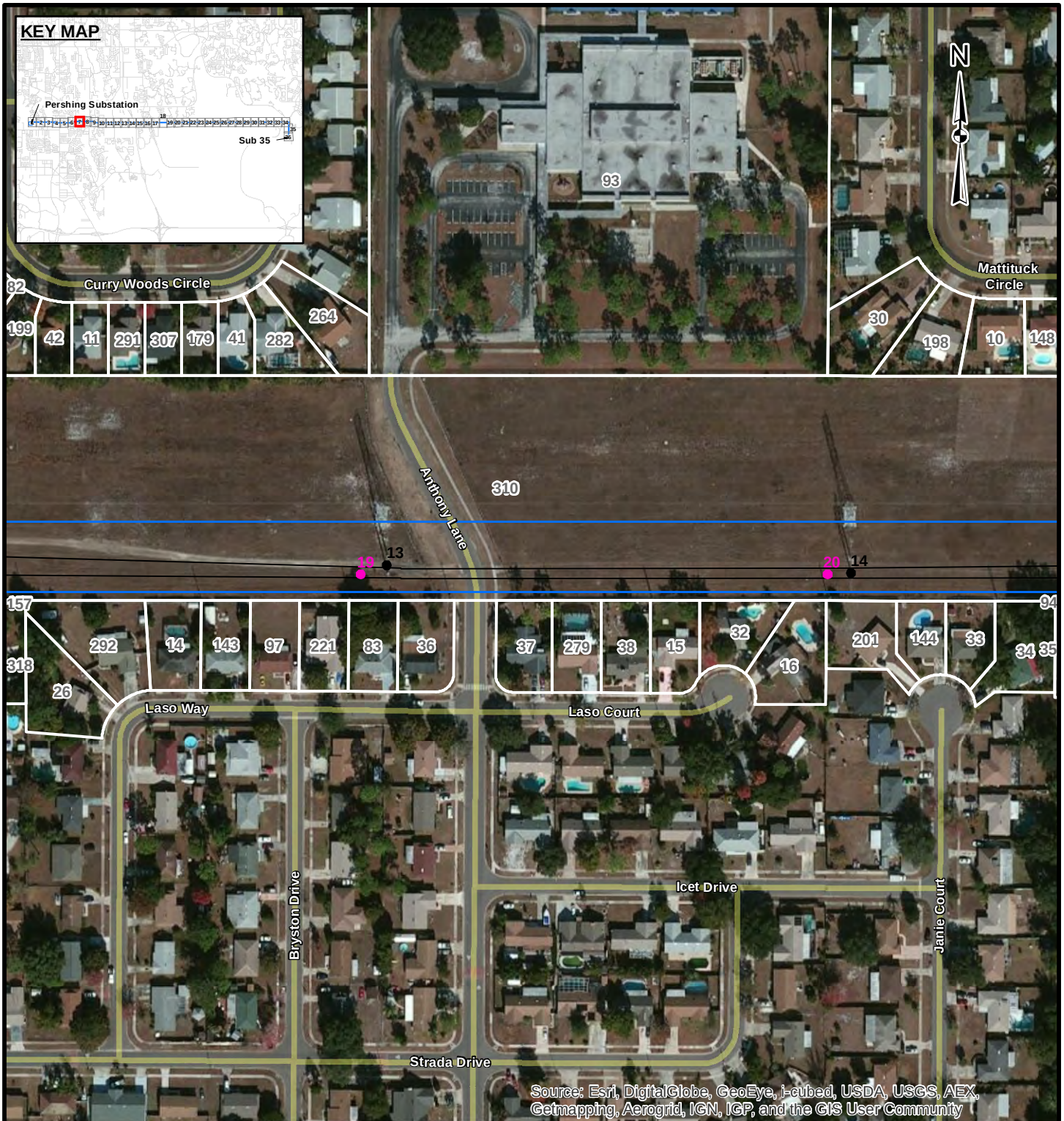


																																																	
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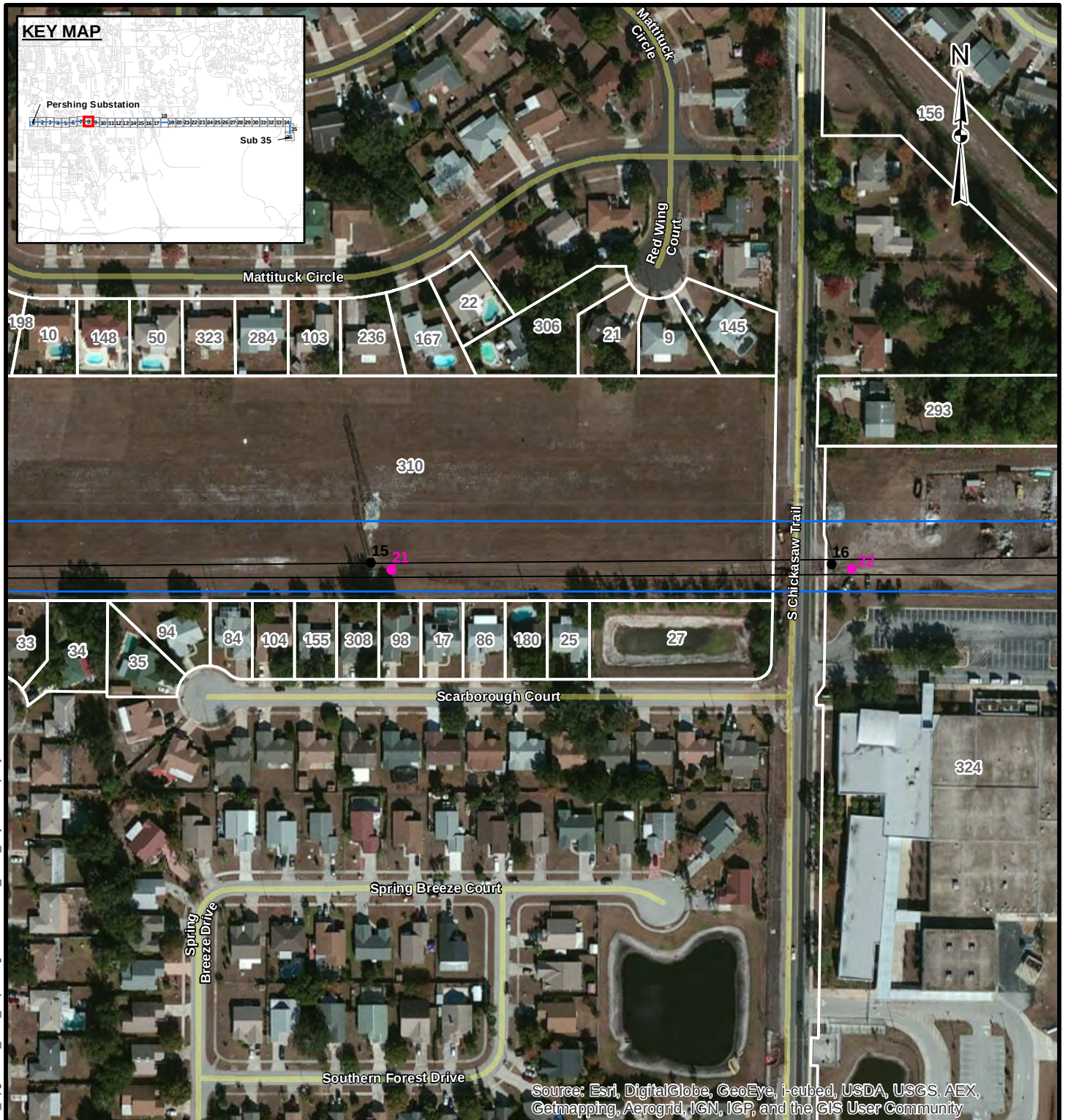
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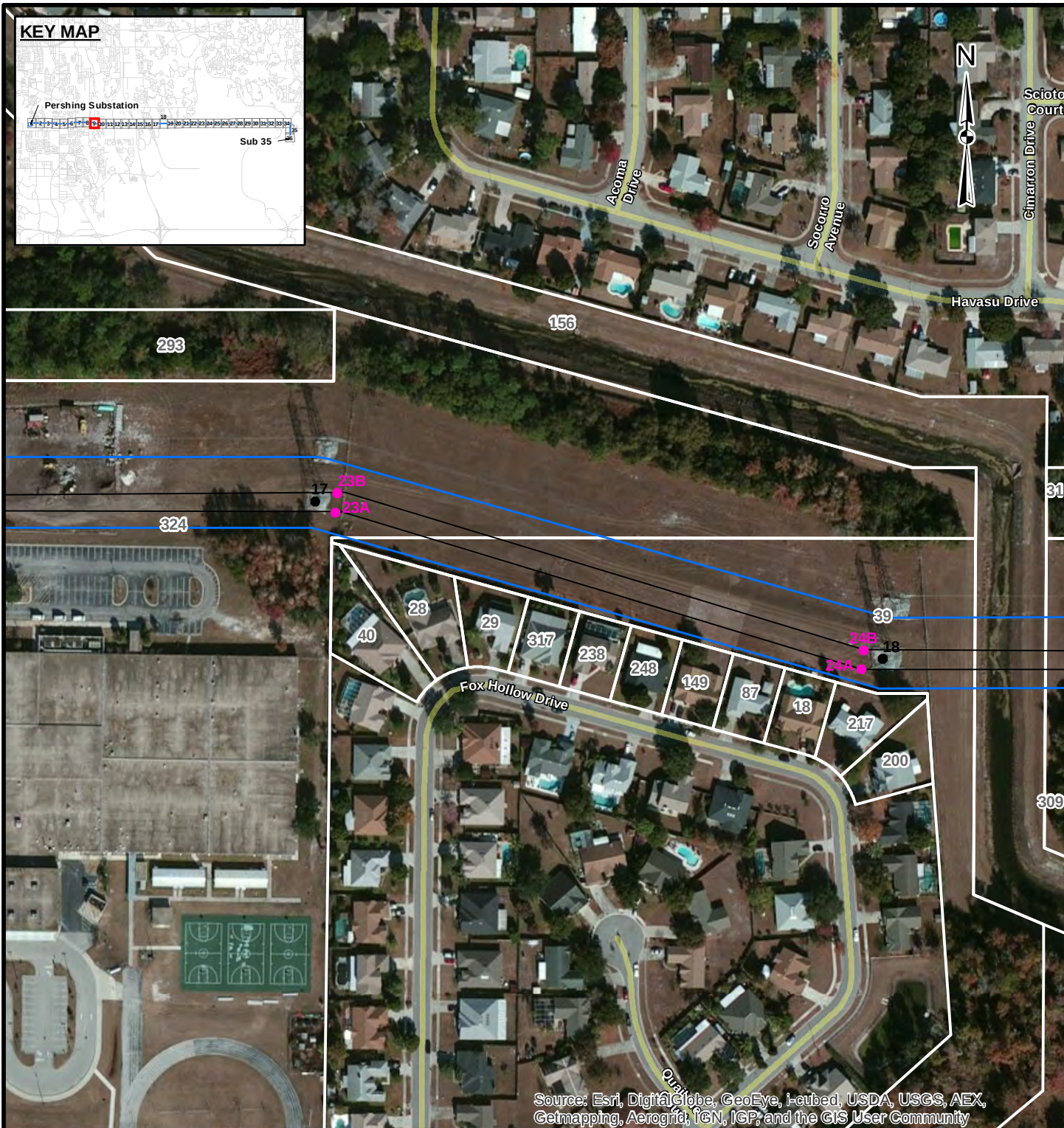
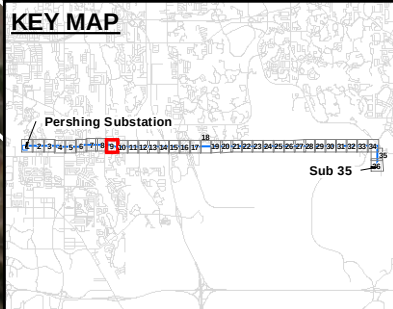
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Parcels

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Parcels, Orange County, 2012

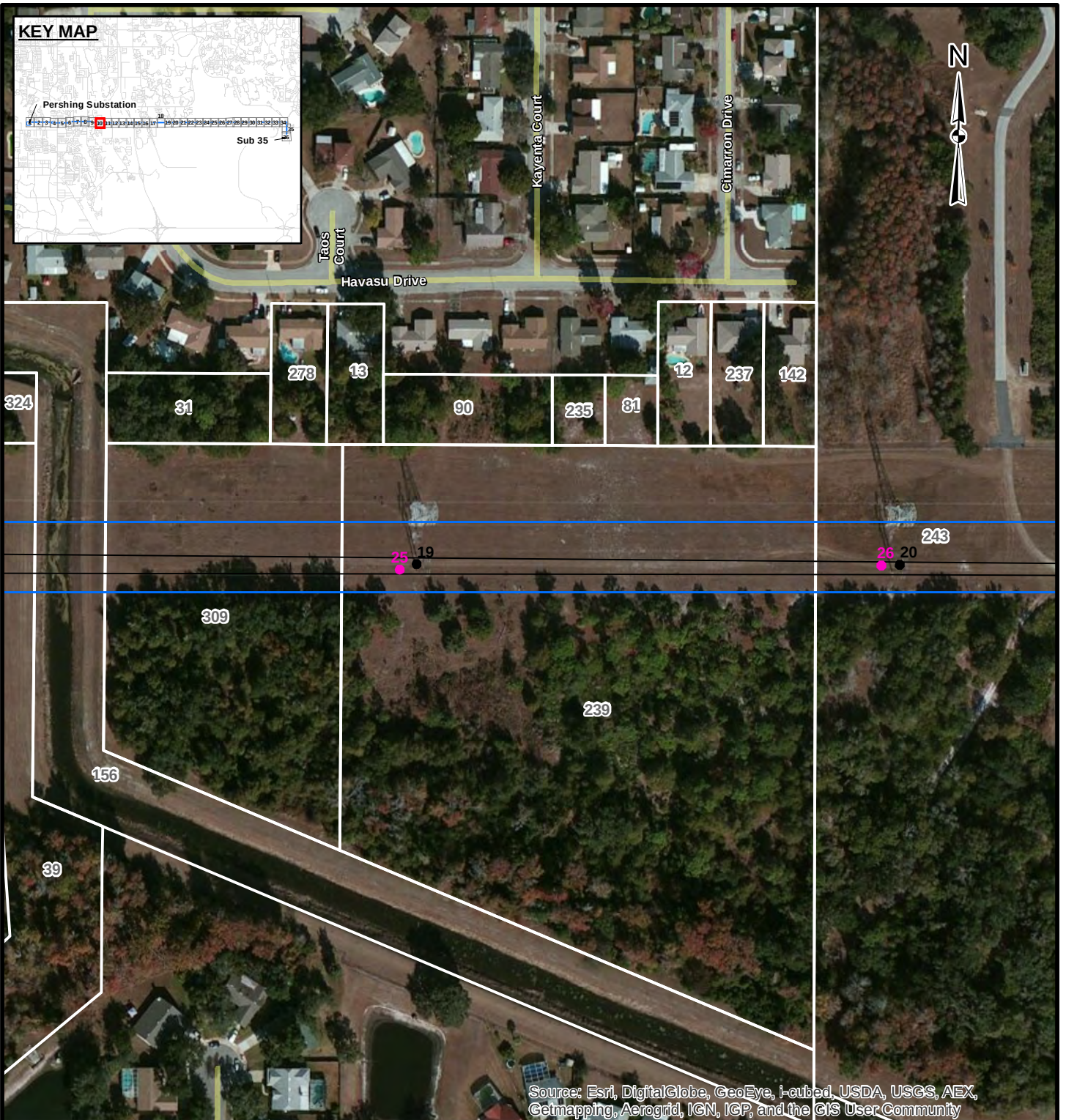
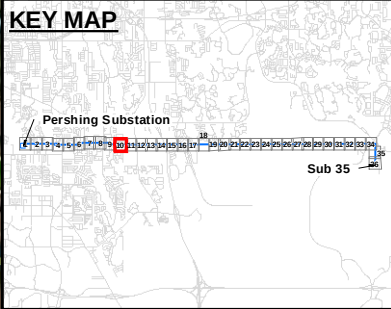
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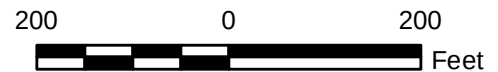
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Parcels

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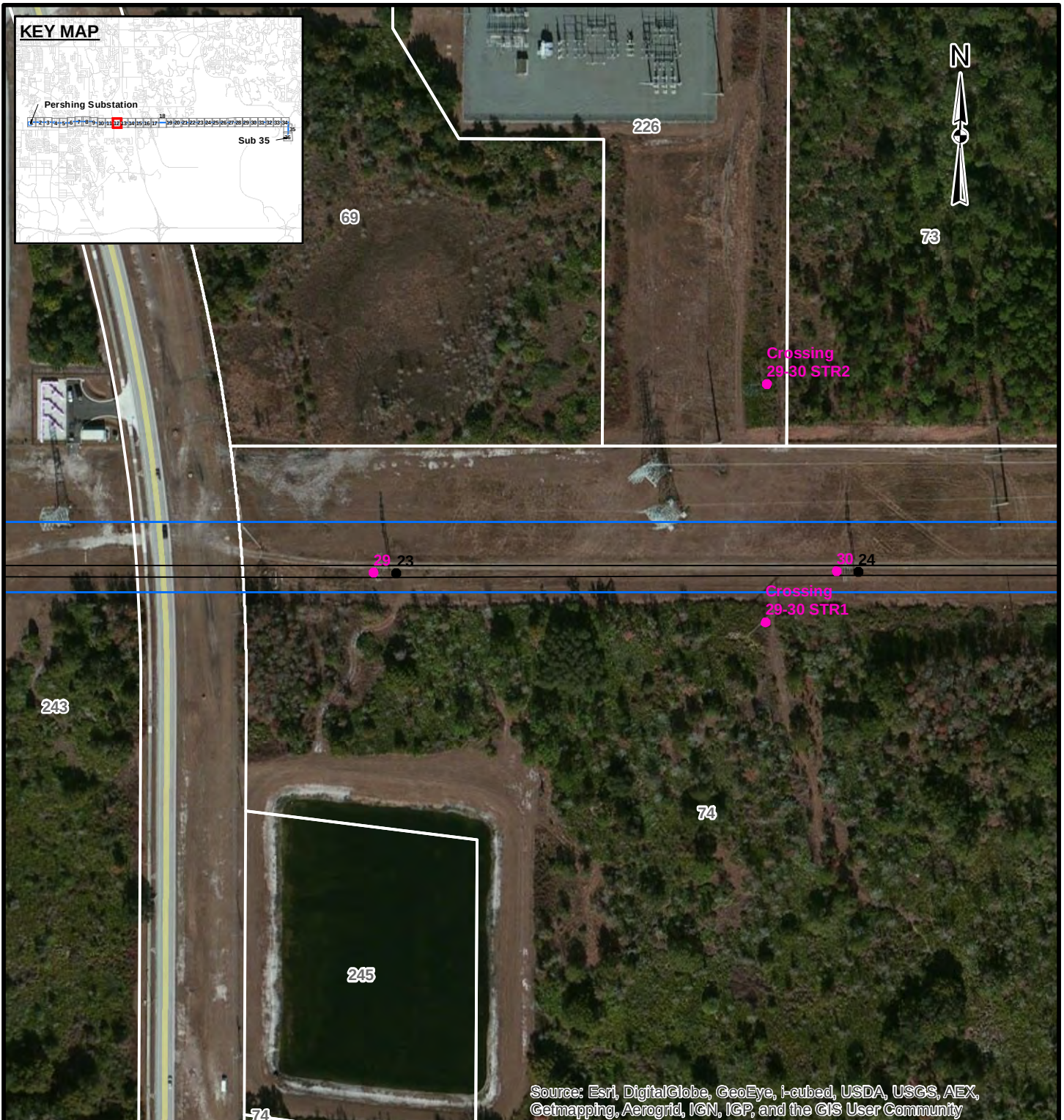
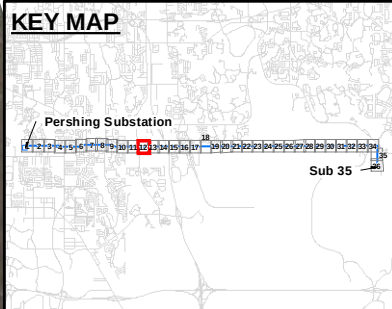


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Associates**

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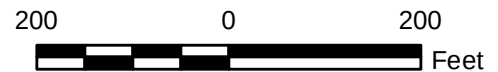
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- Existing Transmission Structures
- New Structures
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- Project Area
- Parcels

REFERENCES

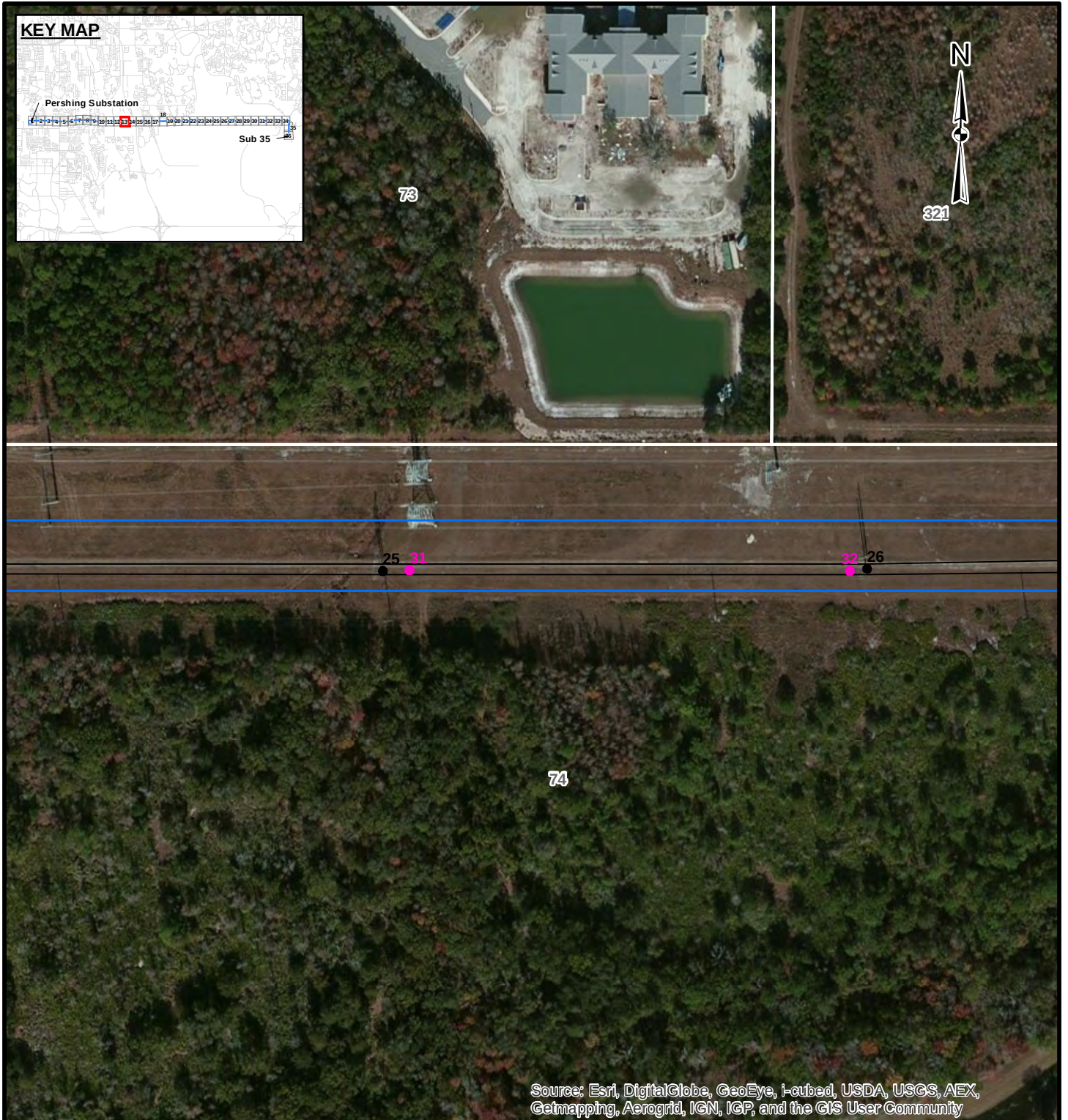
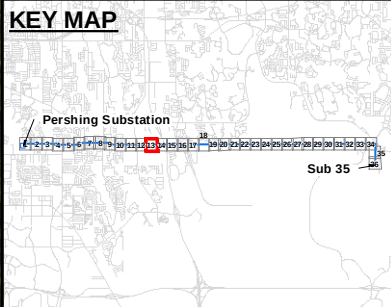
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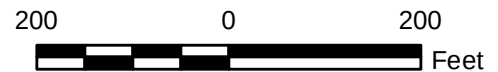
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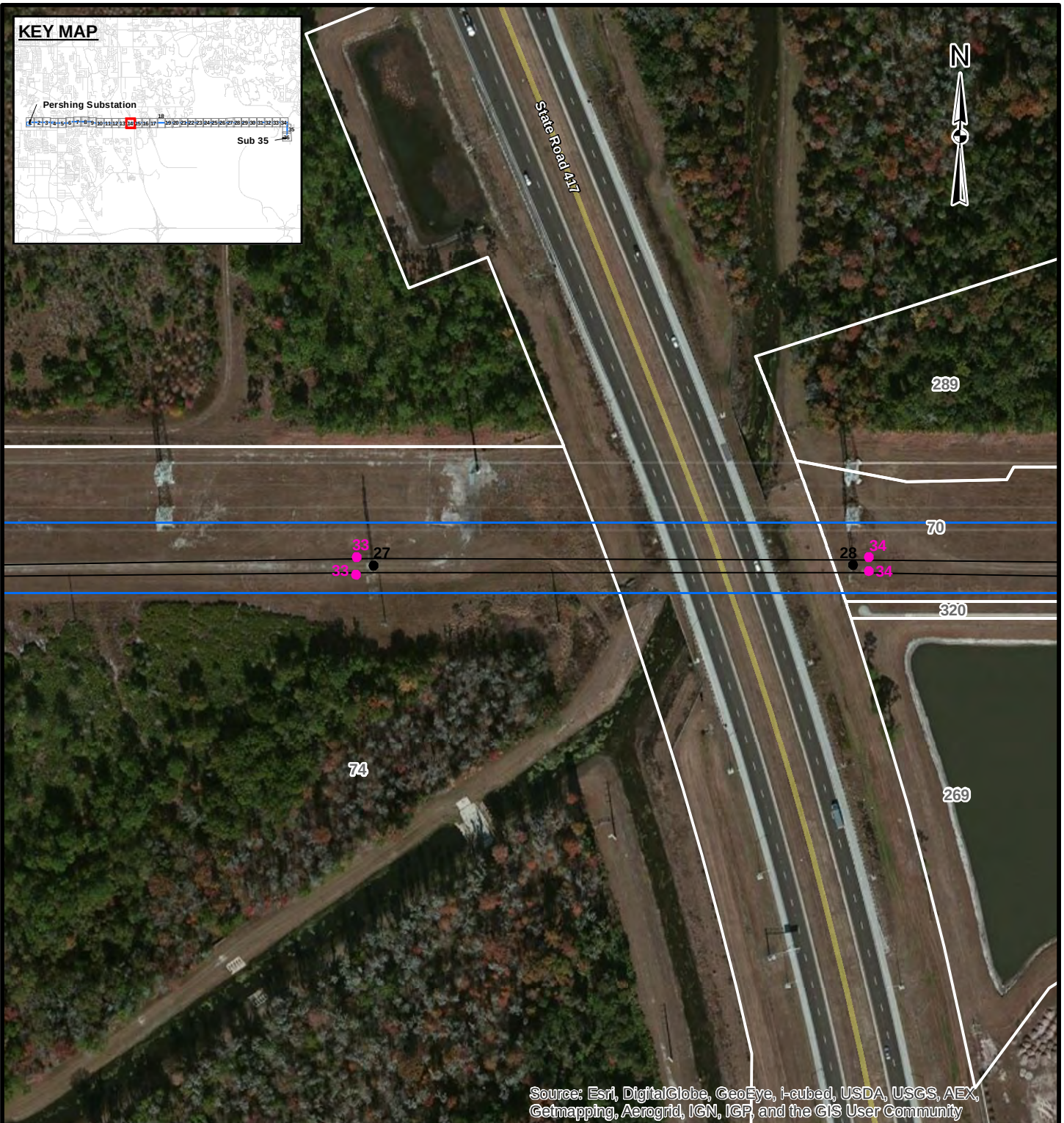
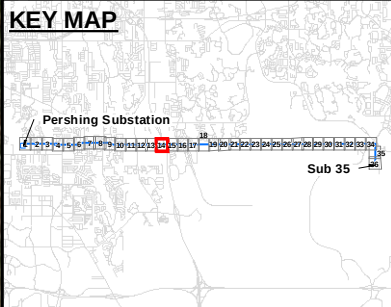
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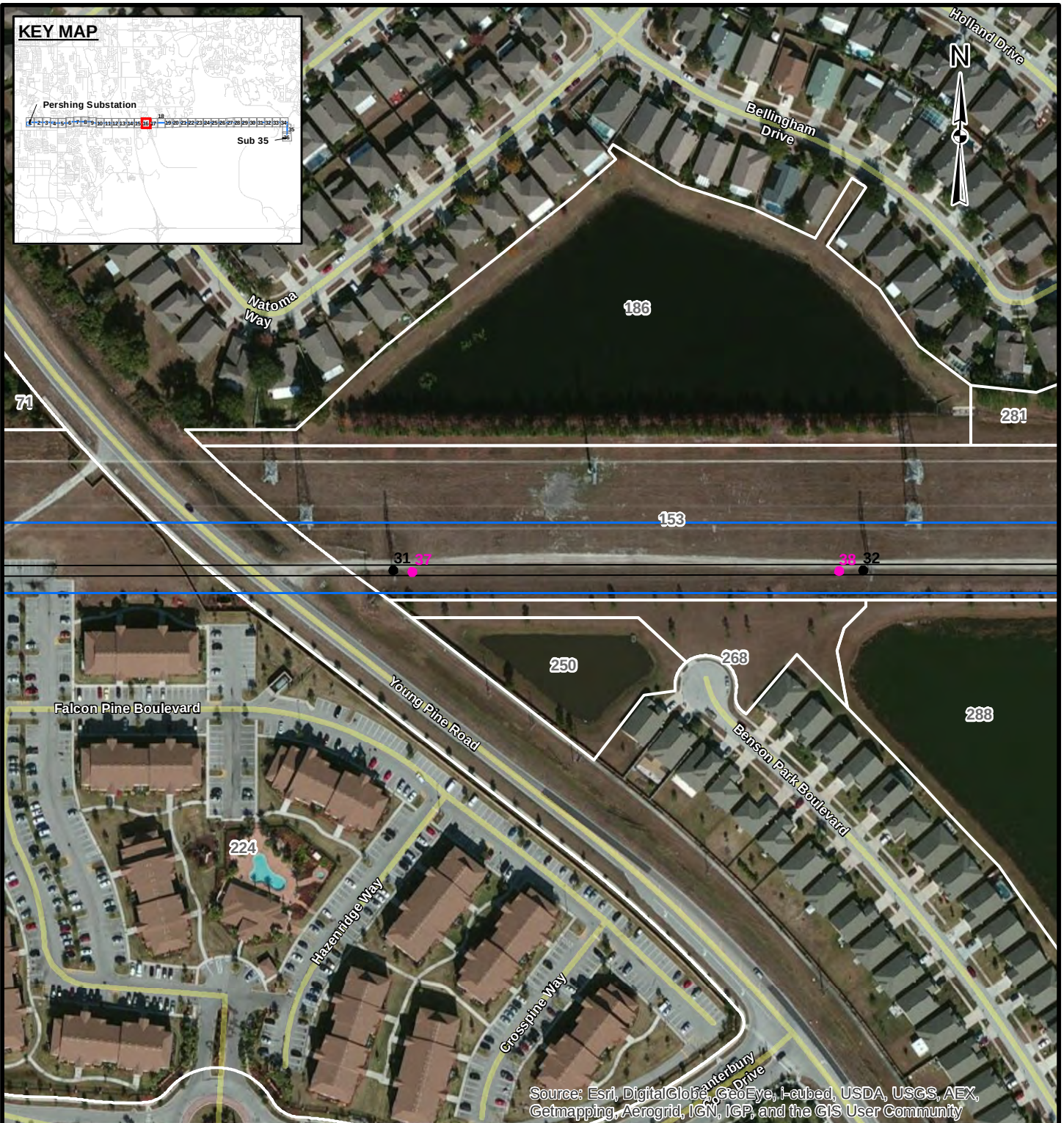
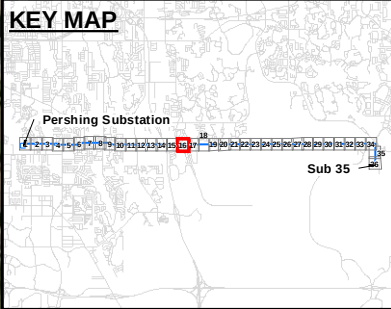
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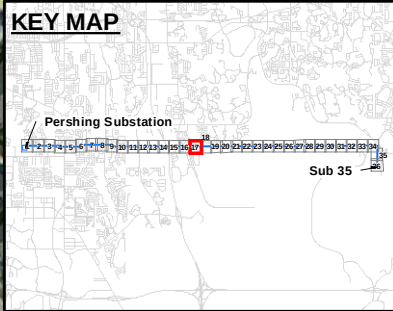
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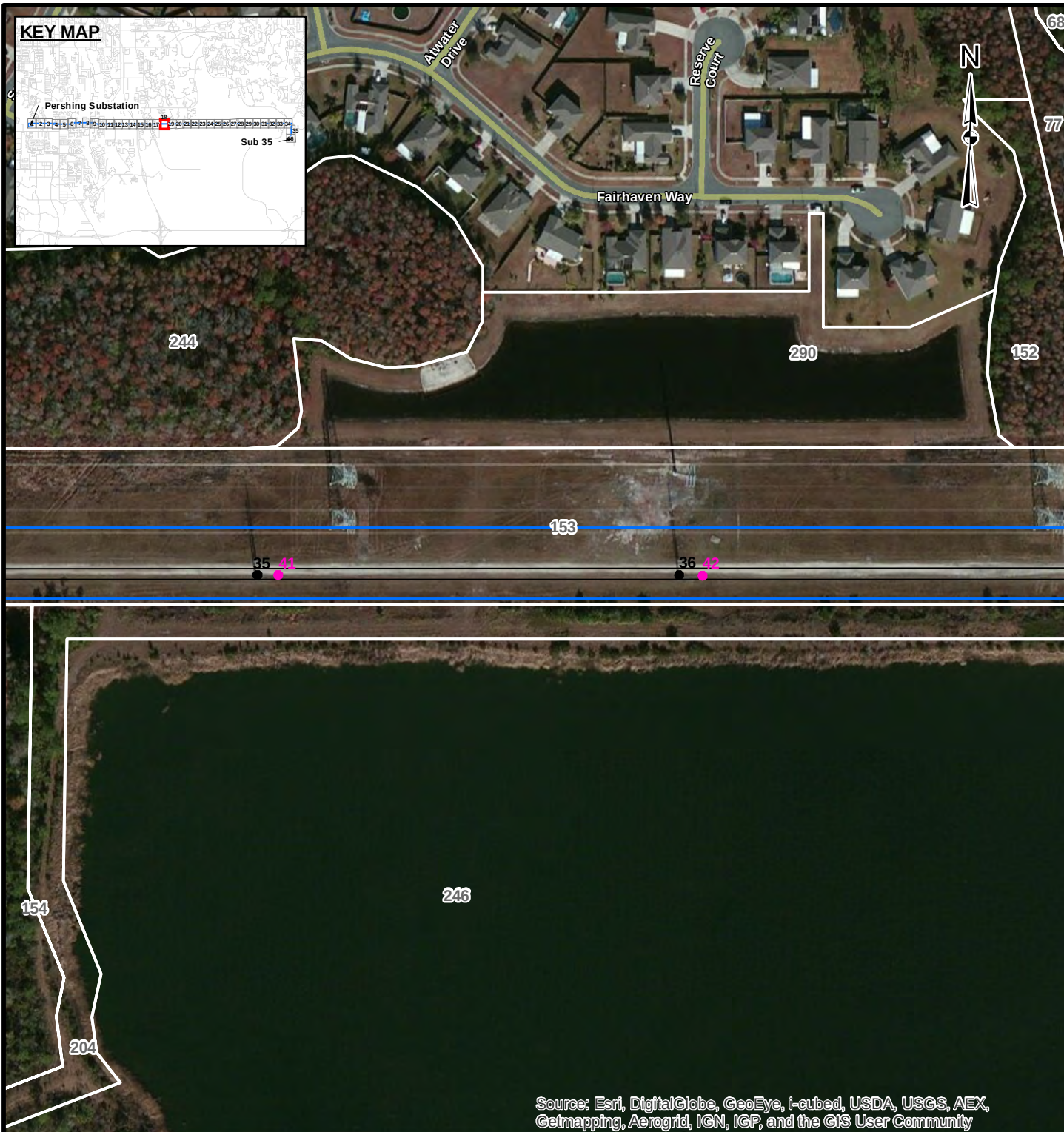
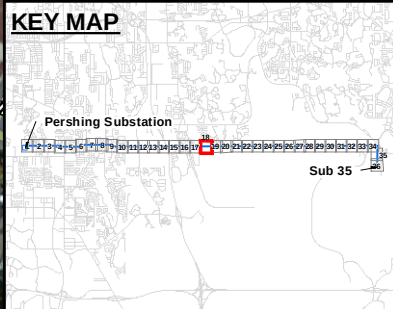
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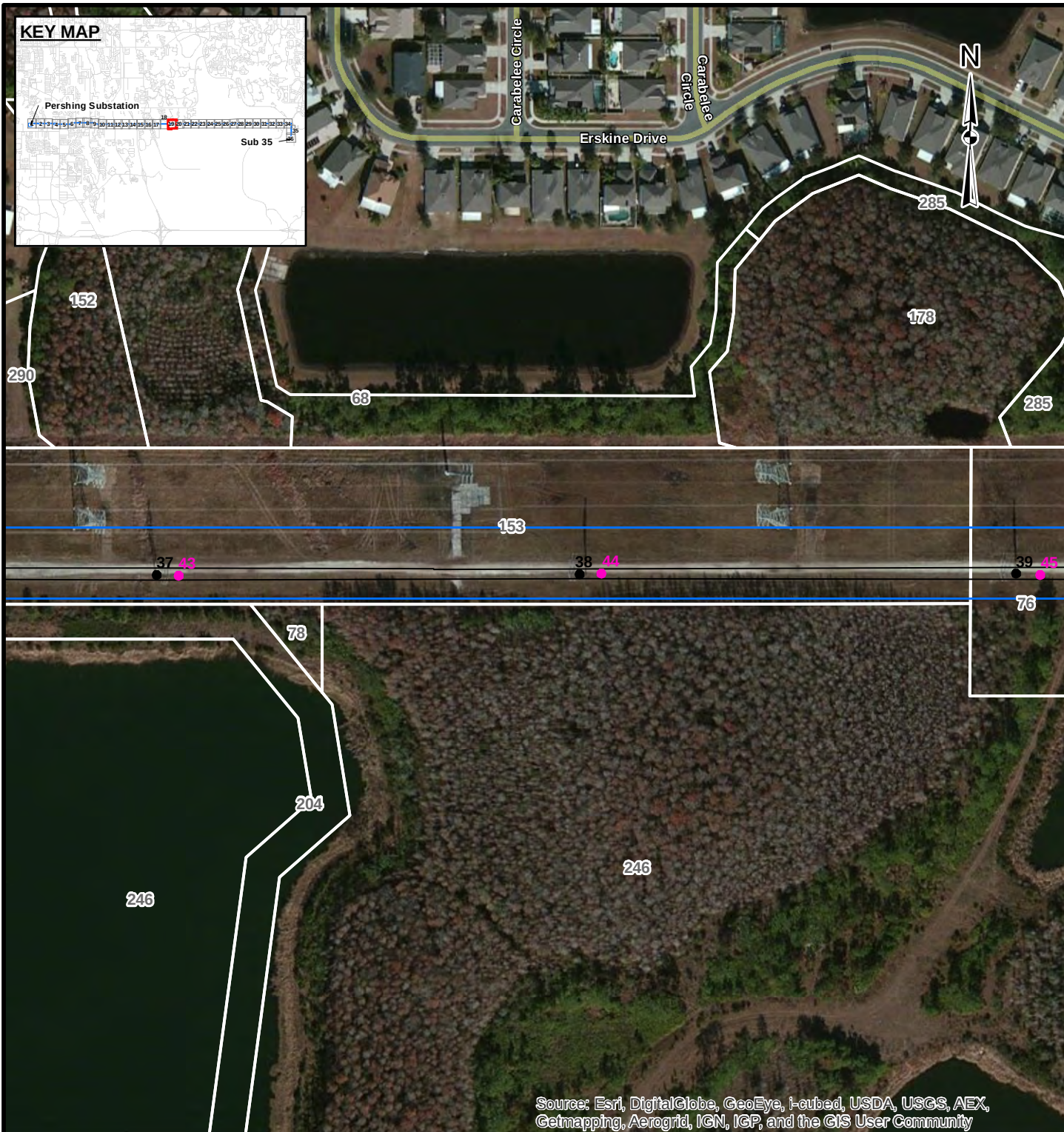
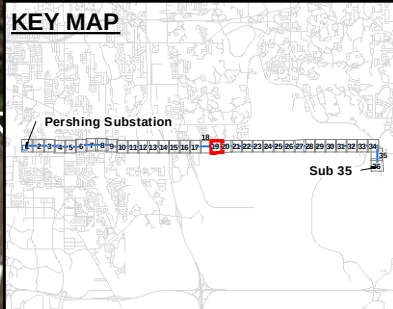
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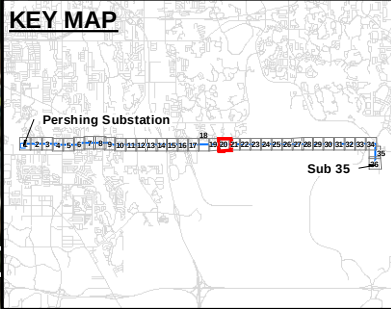
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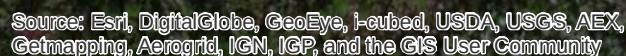
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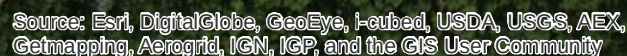
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**Golder
Associates**

PROJECT No. 1301332			FILE No. 1301332_B007	
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CHECK	KAB	24 Jan. 2014		
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Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983



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Associates**



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Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983



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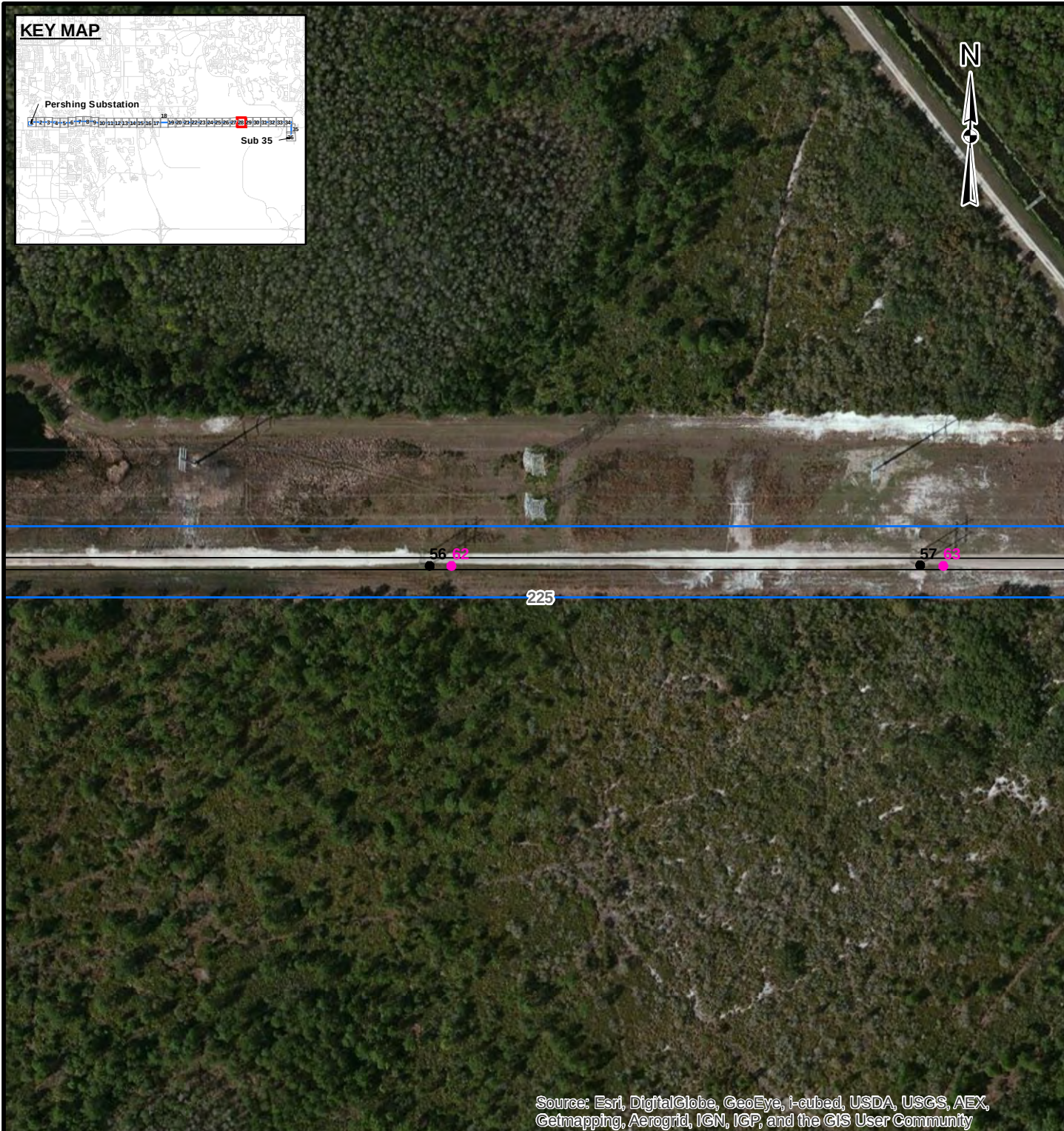
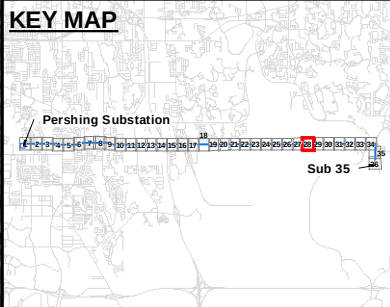
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Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983



**Golder
Associates**

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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

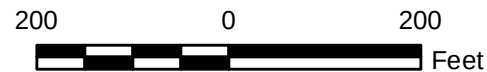
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Parcels

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Parcels, Orange County, 2012

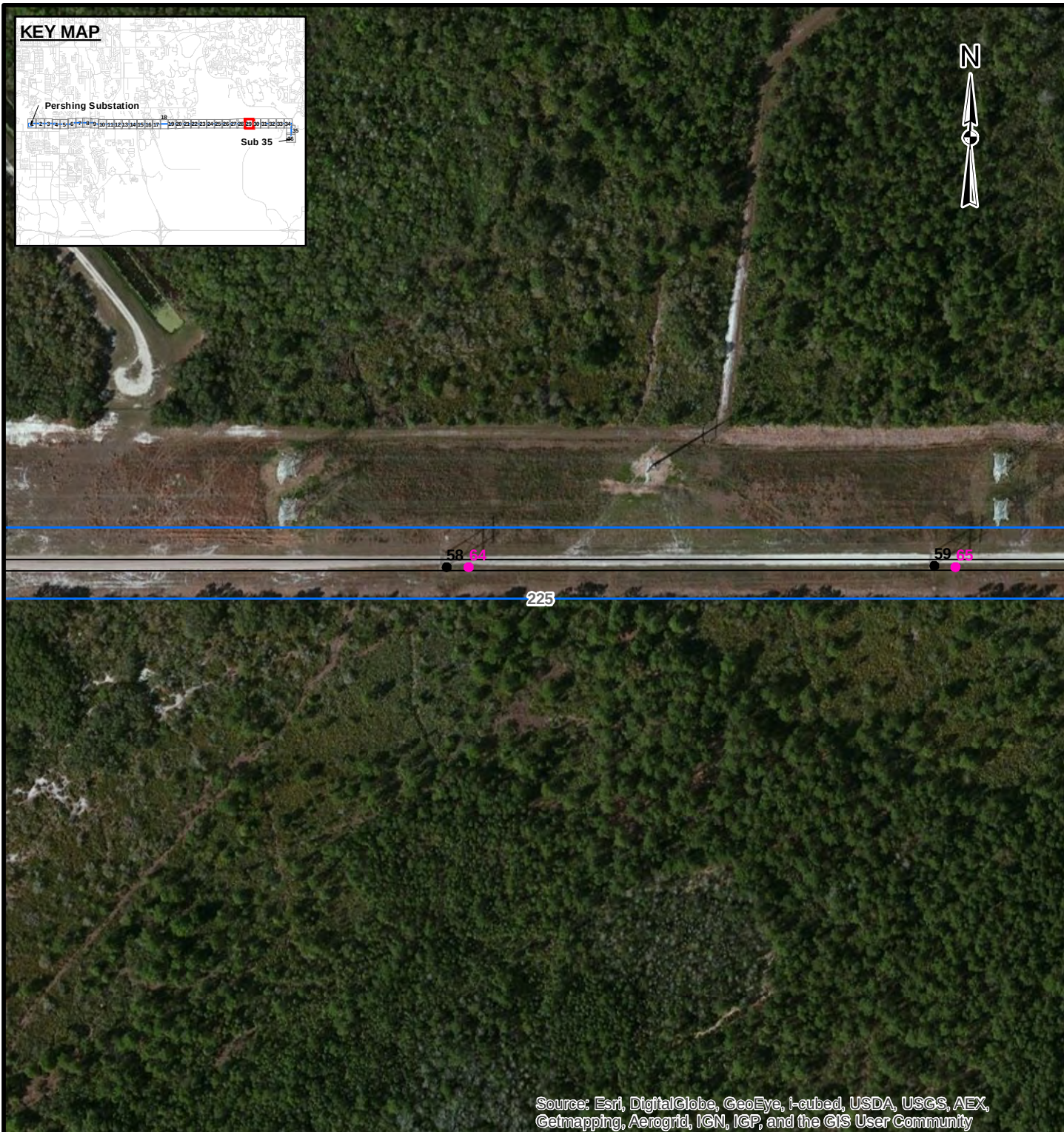
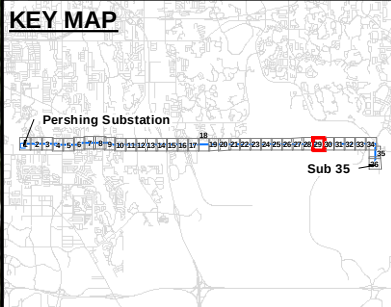
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Projection: Transverse Mercator
Datum: North American 1983



													
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			DESIGN	KAB	11 Dec. 2013		SCALE: AS SHOWN		REV. 0				
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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Parcels

REFERENCES

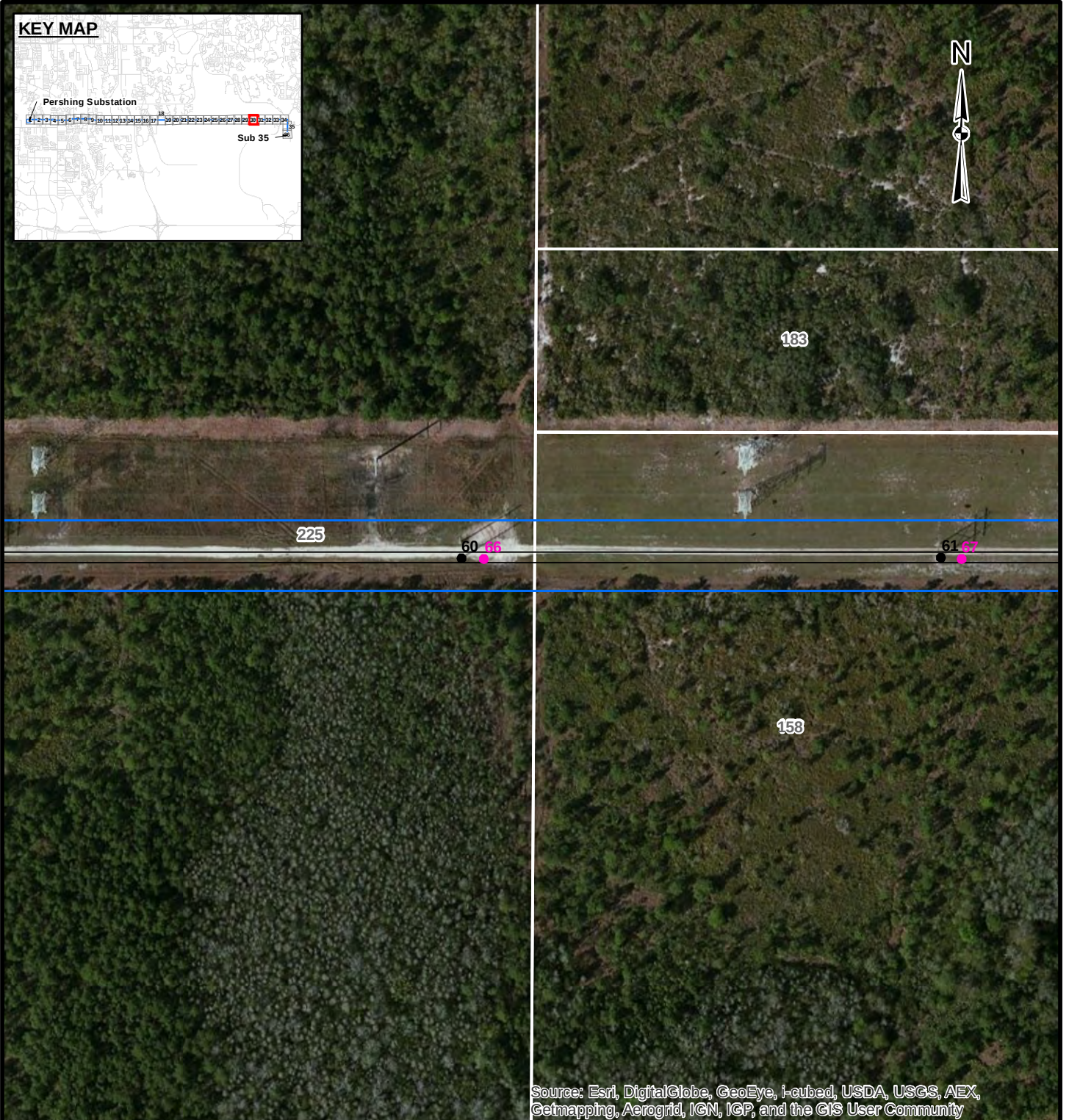
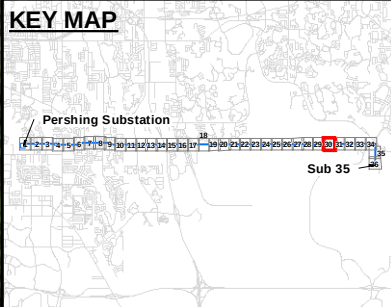
1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Parcels, Orange County, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983



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Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

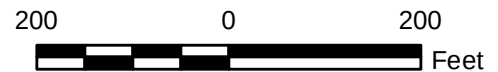
LEGEND

- Existing Transmission Structures
- New Structures
- Transmission Line
- Project Area
- Parcels

REFERENCES

1. Project Area, Substations, SAIC / Golder Associates Inc., 2013
2. Parcels, Orange County, 2012

Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
Datum: North American 1983



																															
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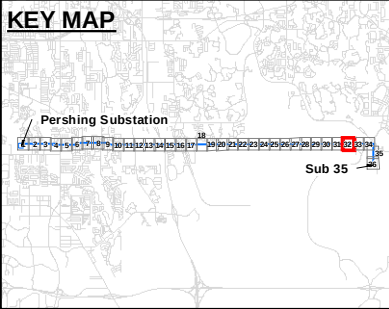
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Coordinate System: NAD 1983 StatePlane Florida East FIPS 0901 Feet
Projection: Transverse Mercator
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**Golder
Associates**

ATTACHMENT D
Page 31 of 36



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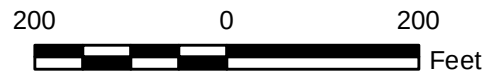
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- Existing Transmission Structures
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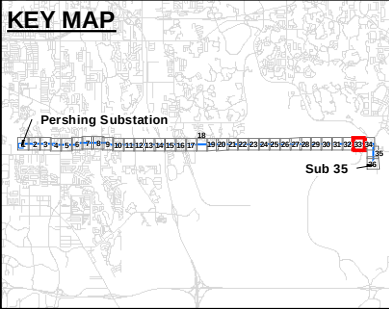
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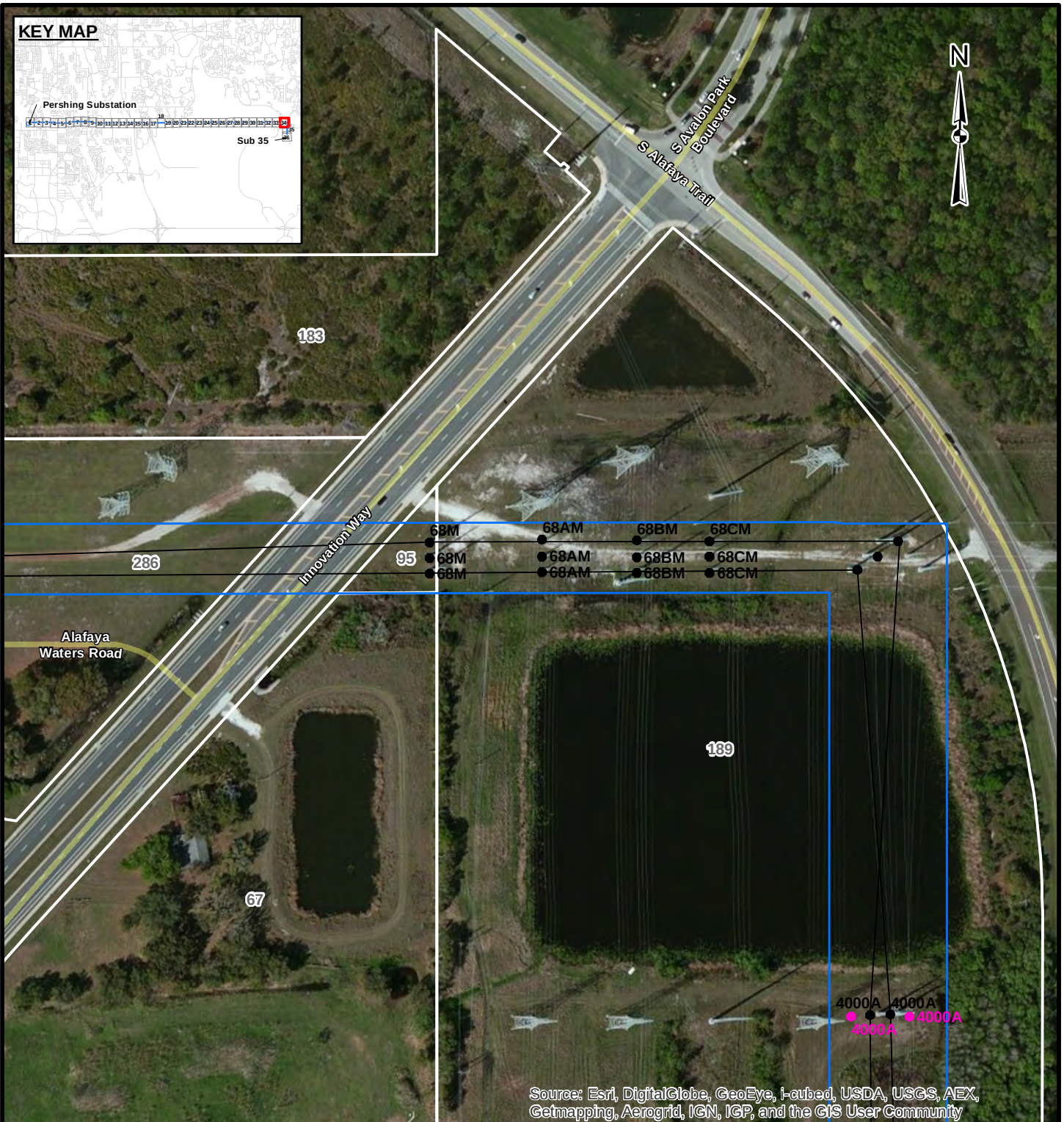
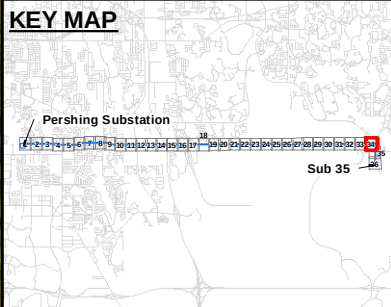
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ATTACHMENT D
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LEGEND

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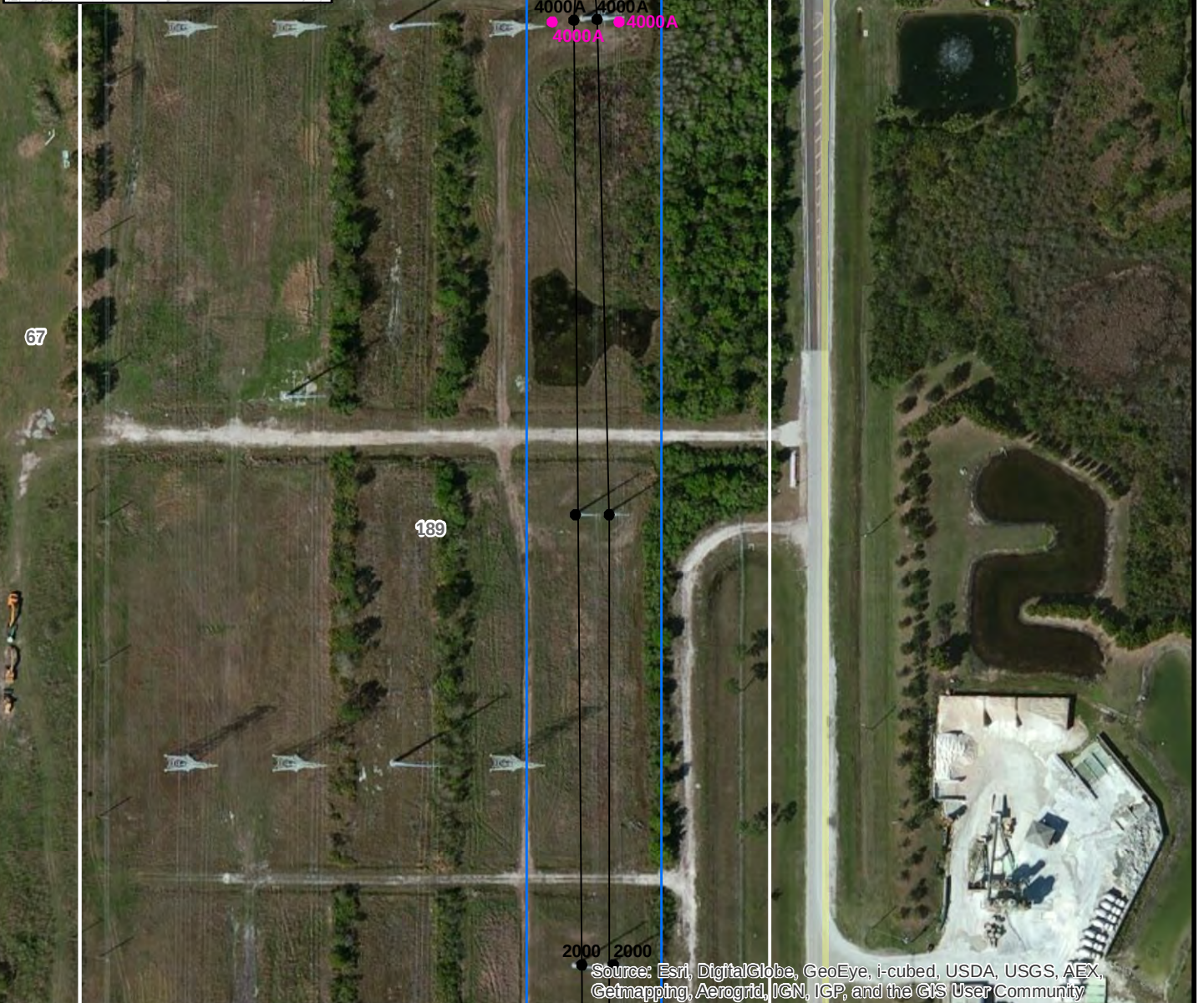
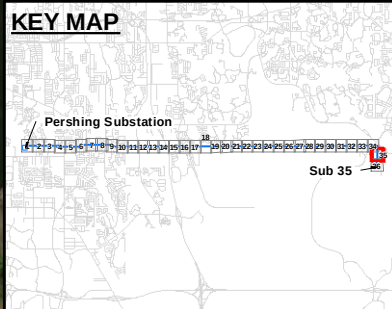
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REVIEW			KAB	Page 35 of 36		

ATTACHMENT E

USACE WETLAND DATASHEETS

UMAM FUNCTIONAL ASSESSMENT FORMS

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>10 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>630/643/511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Acer rubrum</i>	Shrub	FAC	8 <i>Typha latifolia</i>	GC	OBL
2 <i>Magnolia virginiana</i>	Shrub	FACW	9		
3 <i>Ilex cassine</i>	Shrub	FACW	10		
4 <i>Myrica cerifera</i>	Shrub	FAC	11		
5 <i>Eriophorum angustifolium</i>	GC	FACW	12		
6 <i>Panicum repens</i>	GC	FACW	13		
7 <i>Ludwigia leptocarpa</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditch/wet prairie/mixed forested wetland within and adjacent to existing transmission line ROW.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0-2"</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>	Drainage Class: <u>Deep, very poorly drained.</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? <u>Yes</u> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 3/1			Fine sand; granular
2-18	Eg	10 YR 7/2	10YR 3/2		Fine sand; loose
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☒ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No		
Remarks:		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>10 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>630/511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Acer rubrum</i>	Shrub	FAC	8		
2 <i>Sabal palmetto</i>	Shrub	FAC	9		
3 <i>Pinus elliotii</i>	Shrub	FACW	10		
4 <i>Myrica cerifera</i>	Shrub	FAC	11		
5 <i>Baccharis halimifolia</i>	Shrub	FAC	12		
6 <i>Juncus effusus</i>	GC	FACW	13		
7 <i>Thelypteris kunthii</i>	GC	FACW	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditch and forested wetland, connects to wetland A through culvert.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 24"</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>St. Johns Fine Sand</u>	Drainage Class: _____				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? <u>Yes</u> Circle <u>No</u>				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-10	A1	10YR 2/1			mucky sand
10-14	A2	10 YR 3/1			loose sand
14-22	E	10 YR 6/1	10 YR 4/1		loose sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☒ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Hydric Soils Present? ☒ Yes ☐ No
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No		
Remarks:		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>10 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>630/641/511/534</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland C/C2/C3</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Acer rubrum</i>	Shrub	FAC	8 <i>Typha latifolia</i>	GC	OBL
2 <i>Taxoidum ascendens</i>	Shrub	OBL	9 <i>Hydrocotyle umbellata</i>	GC	OBL
3 <i>Ilex cassine</i>	Shrub	FACW	10		
4 <i>Myrica cerifera</i>	Shrub	FAC	11		
5 <i>Sapium sebiferum</i>	Shrub	FAC	12		
6 <i>Panicum repens</i>	GC	FACW	13		
7 <i>Pontederia cordata</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditch, forested wetland, marsh, and reservoir within transmission line ROW.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0-48"+</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Smyrna Fine Sand</u>	Drainage Class: <u>very poorly drained</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10 YR 2/1			Crushed sand
3-6	A2	10 YR 3/1			Crushed sand
6-13	E	10 YR 5/1	10 YR 3/1		Loose sand
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Hydric Soils Present? ☒ Yes ☐ No
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No		
Remarks:		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>11 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511/643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland D</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Bacopa caroliniana</i>	GC	OBL	8		
2 <i>Proserpinaca sp.</i>	GC	OBL	9		
3 <i>Rhynchospora cephalantha</i>	GC	OBL	10		
4 <i>Euthamia caroliniana</i>	GC	FAC	11		
5 <i>Drosera sp.</i>	GC	FACW	12		
6 <i>Andropogon glomeratus</i>	GC	FACW	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Swale/wet prairie adjacent to cypress dominated forested wetland

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands
Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: <u>0-4"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>	Drainage Class: <u>Deep, very poorly drained.</u> Circle							
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No							
Profile Description:								
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.			
0-4	A	10 YR 3/1			Fine sand; granular			
2-18	Eg	10 YR 7/2	10YR 3/2		Fine sand; loose			
Hydric Soil Indicators: <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime </td> <td style="width: 33%; vertical-align: top;"> ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☒ Organic Streaking in Sandy Soils </td> <td style="width: 33%; vertical-align: top;"> ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks) </td> </tr> </table>						☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime	☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☒ Organic Streaking in Sandy Soils	☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)
☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime	☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☒ Organic Streaking in Sandy Soils	☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)						
Remarks: _____								

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Hydric Soils Present? ☒ Yes ☐ No
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No		
Remarks: _____		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>11 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511/643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland E</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Rhynchospora cephalantha</i>	GC	OBL	8		
2 <i>Fuirena</i> sp.	GC	OBL	9		
3 <i>Juncus effusus</i>	GC	FACW	10		
4 <i>Juncus scirpoides</i>	GC	FACW	11		
5 <i>Drosera</i> sp.	GC	OBL	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Swale/wet prairie adjacent to mixed cypress/hardwood forested wetland

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: <u>0-4"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☒ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Sanibel muck</u>	Drainage Class: <u>very poorly drained</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, Subangular, blocky
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

Form Content Approved by HQUSACE 3/92

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>11 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland F, G, H, I, J, K</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	GC	FACW	8 <i>Amphicarpum muhlengerianum</i>	GC	FACW
2 <i>Panicum repens</i>	GC	FACW	9 <i>Euthamia caroliniana</i>	GC	FAC
3 <i>Hydrocotyle umbellata</i>	GC	OBL	10 <i>Eupatorium capillifolium</i>	GC	FACU
4 <i>Drosera</i> sp.	GC	OBL	11 <i>Panicum hemitomon</i>	GC	OBL
5 <i>Fuirena</i> sp.	GC	OBL			
6 <i>Andropogon glomeratus</i>	GC	FACW	12		
7 <i>Rhynchospora cephalantha</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 91%

Remarks: Wetlands F through K area wet prairies within the cleared transmission line ROW adjacent to forested wetland systems located south of the ROW

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0-2"</u> (In.) Depth to Free Water in Pit: <u>0-4"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☒ Other (explain in remarks)
Remarks: <u>Infrequently inundated wet prairie systems upon saturated soils</u>	

SOILS

Map Unit Name (Series and Phase): <u>Basinger/Sanibel/Smyrna Fine Sands</u>	Drainage Class: <u>Deep, very poorly drained.</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 3/1			Fine sand; granular
2-18	Eg	10 YR 7/2	10YR 3/2		Fine sand; loose
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☒ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>12 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland L</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Panicum repens</i>	GC	FACW	8		
2 <i>Phyla nodiflora</i>	GC	FACW	9		
3 <i>Centella asiatica</i>	GC	FACW	10		
4 <i>Hydrocotyle umbellata</i>	GC	OBL	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditch adjacent to Young Pine Road.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 12"</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Smyrna Fine Sand</u>	Drainage Class: <u>very poorly drained</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10 YR 2/1			Crushed sand
3-6	A2	10 YR 3/1			Crushed sand
6-13	E	10 YR 5/1	10 YR 3/1		Loose sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>12 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland M, N, O, P, Q</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Panicum repens</i>	GC	FACW	8 <i>Hypericum</i> sp.	GC	FACW
2 <i>Hydrocotyle umbellata</i>	GC	OBL	9		
3 <i>Drosera</i> sp.	GC	OBL	10		
4 <i>Panicum hemitomon</i>	GC	OBL	11		
5 <i>Andropogon glomeratus</i>	GC	FACW	12		
6 <i>Euthamia caroliniana</i>	GC	FAC	13		
7 <i>Lachnanthes caroliniana</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Wetlands M through Q area wet prairies within the cleared transmission line ROW adjacent to forested wetland systems located south of the ROW

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0-2"</u> (In.) Depth to Free Water in Pit: <u>0-4"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
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Remarks: Infrequently inundated wet prairie systems upon saturated soils

SOILS

Map Unit Name (Series and Phase): <u>Basinger/Sanibel/Smyrna Fine Sands</u>	Drainage Class: <u>Deep, very poorly drained.</u> Circle
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 3/1			Fine sand; granular
2-18	Eg	10 YR 7/2	10YR 3/2		Fine sand; loose

Hydric Soil Indicators:	☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☒ Organic Streaking in Sandy Soils	☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)
☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime		

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No		

Remarks: _____

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>13 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Bullock</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>630</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland R</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Taxodium ascendens</i>	C	OBL			
2 <i>Acer rubrum</i>	C	FAC			
3 <i>Magnolia virginiana</i>	C	FACW			
4 <i>Pinus elliotii</i>	C	FACW			
5 <i>Myrica cerifera</i>	C	FACE			
6					
7					

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Edge of forested wetland near intersection of transmission line ROW and S Econlockhatchee Trail

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0-6 "</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>	Drainage Class: <u>Deep, very poorly drained.</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 3/1			Fine sand; granular
2-18	Eg	10 YR 7/2	10YR 3/2		Fine sand; loose
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☒ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

Form Content Approved by HQUSACE 3/92

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>13 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Bullock</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland S</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <u>Panicum hemitomon</u>	GC	OBL	8		
2 <u>Eupatorium capillifolium</u>	GC	FACU	9		
3 <u>Woodwardia virginica</u>	GC	OBL	10		
4 <u>Spartina bakeri</u>	GC	FACW	11		
5 <u>Acer rubrum</u>	GC	FAC	12		
6 <u>Magnolia virginiana</u>	GC	FACW	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 83%

Remarks: Edge of marsh extending off-ROW to the south.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>	Drainage Class: <u>Deep, very poorly drained.</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? <u>Yes</u> No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 3/1			Fine sand; granular
2-18	Eg	10 YR 7/2	10YR 3/2		Fine sand; loose
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☒ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>13 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Bullock</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511/643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland T and U</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha latifolia</i>	GC	OBL	8 <i>Sarurus cernuus</i>	GC	OBL
2 <i>Pontederia cordata</i>	GC	OBL	9		
3 <i>Panicum hemitomon</i>	GC	OBL	10		
4 <i>Ludwigia peruviana</i>	GC	OBL	11		
5 <i>Juncus effusus</i>	GC	OBL	12		
6 <i>Andropogon glomeratus</i>	GC	FACW	13		
7 <i>Xyris sp.</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditch/wet prairie, connects under existing access road through culvert.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0-4"</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Sanibel muck</u>	Drainage Class: <u>very poorly drained</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, Subangular, blocky
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site:	Pershing to Stanton T-line	Date:	13 Dec 2013
Applicant/Owner:	OUC	County:	Orange
Investigator:	Bullock	State:	Florida
Do Normal Circumstances exist on the site?	☒ Yes ☐ No	Community ID:	617
Is the site significantly disturbed (Atypical Situation)?	☒ Yes ☐ No	Transect ID:	
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐ Yes ☒ No	Plot ID:	Wetland V

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Panicum hemitomon</i>	GC	OBL	8		
2 <i>Sapum sebiferum</i>	Shrub	FAC	9		
3 <i>Ilex cassine</i>	Shrub	FACW	10		
4 <i>Woodwardia virginica</i>	GC	OBL	11		
5 <i>Eupatorium capillifolium</i>	GC	FACU	12		
6 <i>Sambucus canadensis</i>	Shrub	FACW	13		
7 <i>Rhexia</i> sp.	GC	FACW	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 86%

Remarks: Edge of mixed wetland hardwood

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: 0-2" (In.) Depth to Free Water in Pit: 0" (In.) Depth to Saturated Soil: 0" (In.)		
Remarks:		

SOILS

Map Unit Name (Series and Phase): Sanibel muck	Drainage Class: very poorly drained	Circle			
Taxonomy (Subgroup):	Field Observations Confirm Mapped Type?	Yes No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, subangular, blocky
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes ☐ No	Is this Sampling Point Within a Wetland?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes ☐ No		
Hydric Soils Present?	☒ Yes ☐ No		
Remarks:			

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>		Date: <u>13 Dec 2013</u>
Applicant/Owner: <u>OUC</u>		County: <u>Orange</u>
Investigator: <u>Bullock</u>		State: <u>Florida</u>
Do Normal Circumstances exist on the site?	☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)?	☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐ Yes ☒ No	Plot ID: <u>Wetland W</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <u>Panicum hemitomon</u>	GC	OBL			
2 <u>Rhexia sp.</u>	GC	FACW			
3 <u>Cyperus sp.</u>	GC	FACW			
4 <u>Eupatorium capillifolium</u>	GC	FACU			
5 <u>Pontederia cordata</u>	GC	OBL			
6 _____					
7 _____					

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 80%

Remarks: _____

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0-2 "</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Sanibel muck</u>		Drainage Class: <u>very poorly drained</u>	Circle		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? <u>Yes</u>	No		
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, Subangular, blocky
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☒ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes ☐ No	Is this Sampling Point Within a Wetland?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes ☐ No		
Hydric Soils Present?	☒ Yes ☐ No		
Remarks: _____			

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>		Date: <u>13 Dec 2013</u>
Applicant/Owner: <u>OUC</u>		County: <u>Orange</u>
Investigator: <u>Bullock</u>		State: <u>Florida</u>
Do Normal Circumstances exist on the site?	☒ Yes ☐ No	Community ID: <u>510</u>
Is the site significantly disturbed (Atypical Situation)?	☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐ Yes ☒ No	Plot ID: <u>Wetland X</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <u>Hydrocotyle umbellata</u>	GC	OBL			
2 <u>Centella asiatica</u>	GC	FACW			
3 <u>Eupatorium capillifolium</u>	GC	FACU			
4 _____					
5 _____					
6 _____					
7 _____					

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 75%

Remarks: Man-made drainage canal, routinely maintained.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0</u> " (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0</u> " (In.)		
Remarks: _____		

SOILS

Map Unit Name (Series and Phase): <u>Felda Fine Sand, Depressional, frequently flooded</u>		Drainage Class: <u>poorly to v. poorlydrained</u>	Circle		
Taxonomy (Subgroup): _____		Field Observations Confirm Mapped Type? <u>Yes</u>	No		
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 2/1			Fine sand; granular
4-35	Eg	10 YR 7/2	10YR 6/4		Fine sand; loose

Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime	☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils	☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)
Remarks: _____		

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes ☐ No	Is this Sampling Point Within a Wetland?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes ☐ No		
Hydric Soils Present?	☒ Yes ☐ No		
Remarks: _____			

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>13 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Bullock</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>621</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland Y</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Taxodium ascendens</i>	C	OBL	8 <i>Momordica charantia</i>	V	U
2 <i>Schinus terebinthifolius</i>	Shrub	FAC			
3 <i>Sambucus canadensis</i>	Shrub	FACW			
4 <i>Nyssa sylvatica</i>	C	OBL			
5 <i>Sabal palmetto</i>	C	FAC			
6 <i>Dioscorea bulbifera</i>	V	U			
7 <i>Urena lobata</i>	GC	FACU			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 63%

Remarks: Drained cypress dome

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 "</u> (In.) Depth to Free Water in Pit: <u>6"</u> (In.) Depth to Saturated Soil: <u>4"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Felda Fine Sand, Depressional, frequently flooded</u>	Drainage Class: <u>poorly to v. poorlydrained</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 2/1			Fine sand; granular
4-35	Eg	10 YR 7/2	10YR 6/4		Fine sand; loose
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>17 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Bullock</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland Z</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <u>Alternanthera philoxeroides</u>	GC	OBL			
2 <u>Polygonum sp.</u>	GC	FACW			
3 <u>Juncus effusus</u>	GC	FACW			
4 <u>Ludwigia sp.</u>	GC	FACW			
5 <u>Hydrocotyle umbellata</u>	GC	OBL			
6 _____					
7 _____					

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditch crossing ROW north-south, connects through culvert underneath access road to Wetland AA and forested wetland to the south

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0-4"</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Sanibel muck</u>	Drainage Class: very poorly drained Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, Subangular, blocky
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>17 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Bullock</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511/643/641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland AA</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Urochloa mutica</i>	GC	FACW			
2 <i>Sambucus canadensis</i>	Shrub	FACW			
3 <i>Bidens alba</i>	GC	FACW			
4 <i>Schinus terebinthifolius</i>	Shrub	FAC			
5 <i>Ludwigia sp.</i>	GC	FACW			
6 <i>Panicum repens</i>	GC	FACW			
7 <i>Paspalum notatum</i>	GC	FACU			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 86%

Remarks: Swale/wet prairie/marsh adjacent to mixed wetland hardwoods south of transmission line ROW.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0-6"</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Sanibel muck</u>	Drainage Class: <u>very poorly drained</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, Subangular, blocky
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>17 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Bullock</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland AB</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Panicum repens</i>	GC	FACW			
2 <i>Panicum hemitomon</i>	GC	OBL			
3 <i>Paspalum notatum</i>	GC	FACU			
4 <i>Hydrocotyle umbellata</i>	GC	OBL			
5 <i>Ludwigia</i> sp.	GC	FACW			
6 <i>Typha latifolia</i>	GC	OBL			
7 <i>Pontederia cordata</i>	GC	OBL			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 86%

Remarks: _____

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0-2"</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Sanibel muck</u>	Drainage Class: <u>very poorly drained</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, Subangular, blocky
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☒ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>17 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland AC</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Bacopa caroliniana</i>	GC	OBL			
2 <i>Cyperus sp.</i>	GC	FACW			
3 <i>Ludwigia peruviana</i>	GC	OBL			
4 <i>Erigeron strigosus</i>	GC	FAC			
5 <i>Solidago sp.</i>	GC	FACW			
6 <i>Panicum repens</i>	GC	FACW			
7 <i>Andropogon glomeratus</i>	GC	FACW			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Cleared wet prairie connected to cypress dome located to north of transmission ROW

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0-1"</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Sanibel muck</u>	Drainage Class: <u>very poorly drained</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, Subangular, blocky
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☒ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

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DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>18 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>534</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland AD</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Ludwigia octovalvis</i>	GC	OBL			
2 <i>Cyperus surinamensis</i>	GC	FACW			
3 <i>Phyla nodiflora</i>	GC	FAC			
4 <i>Sacciolepus indica</i>	GC	FAC			
5					
6					
7					

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Stormwater pond adjacent to Pershing substation

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0-36"+</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>	Drainage Class: <u>Deep, very poorly drained.</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 3/1			Fine sand; granular
2-18	Eg	10 YR 7/2	10YR 3/2		Fine sand; loose
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☒ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Pershing to Stanton T-line</u>	Date: <u>18 Dec 2013</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>534</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland AE</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Ludwigia peruviana</i>	GC	OBL			
2 <i>Ludwigia octovalvis</i>	GC	OBL			
3 <i>Sambucus canadensis</i>	Shrub	FACW			
4 <i>Sapium sebiferum</i>	Shrub	FAC			
5 <i>Woodwardia virginica</i>	GC	OBL			
6 <i>Panicum hemitomon</i>	GC	OBL			
7 <i>Acer rubrum</i>	Shrub	FAC			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Borrow pond extending north of transmission line ROW associated with adjacent subdivision

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0-48"+</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>	Drainage Class: <u>Deep, very poorly drained.</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 3/1			Fine sand; granular
2-18	Eg	10 YR 7/2	10YR 3/2		Fine sand; loose
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☒ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

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DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *C</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Pontederia cordata</i>	GC	OBL	8		
2 <i>Rhynchospora cephalantha</i>	GC	OBL	9		
3 <i>Fuirena pumila</i>	GC	OBL	10		
4 <i>Hydrocotyle umbellata</i>	GC	FACW	11		
5 <i>Centella asiatica</i>	GC	FACW	12		
6 <i>Bacopa caroliniana</i>	GC	OBL	13		
7 <i>Drosera</i> spp.	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Wetland is in heavily grazed pasture and has been ditched.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0</u> (In.) Depth to Free Water in Pit: <u>0</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: <u>Algal mats.</u>	

SOILS

Map Unit Name (Series and Phase): <u>St. Johns Fine Sand</u>	Drainage Class: <u>very poorly drained</u> Circle				
Taxonomy (Subgroup): <u>Hyperthermic Typic Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-10	A1	10 YR 2/1	10YR 6/1		Fine sand, granular
10-14	A2	10 YR 3/1			Fine sand, single grained, loose
14-22	E	10 YR 6/1	10 YR 4/1		Fine sand, single grained, loose
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *D</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Bacopa caroliniana</i>	GC	OBL	8	GC	FACW
2 <i>Proserpinaca</i> spp.	GC	OBL	9		
3 <i>Rhynchospora cephalantha</i>	GC	OBL	10		
4 <i>Eleocharis</i> spp.	GC	OBL	11		
5 <i>Panicum repens</i>	GC	FACW	12		
6 <i>Osmunda regalis</i>	GC	OBL	13		
7 <i>Andropogon glomeratus</i>	GC	FACW	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Wet ditch along edge of T-line ROW.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0</u> (In.) Depth to Free Water in Pit: <u>0</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Pomello Fine Sand</u>	Drainage Class: <u>moderately well drained</u> Circle				
Taxonomy (Subgroup): <u>Hyperthermic Oxyaquic Alorthods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-6	A	10 YR 2/1			Fine sand; granular
6-25	E	10 YR 6/1			Fine sand; loose
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils ☒ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Hydric Soils Present? ☒ Yes ☐ No
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No		
Remarks:		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>		Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>		County: <u>Orange</u>
Investigator: <u>Arrants</u>		State: <u>Florida</u>
Do Normal Circumstances exist on the site?	☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)?	☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐ Yes ☒ No	Plot ID: <u>Wetland *E</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	GC	FACW	8		
2 <i>Centella asiatica</i>	GC	FACW	9		
3 <i>Juncus effusus</i>	GC	OBL	10		
4 <i>Scirpus cyperinus</i>	GC	OBL	11		
5 <i>Juncus scirpoides</i>	GC	FACW	12		
6 <i>Sarracenia minor</i>	GC	OBL	13		
7 <i>Drosera</i> spp.	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Area heavily grazed by cattle.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: <u>0"</u> (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☒ Other (explain in remarks)
Remarks: <u>Algal matting.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Sanibel muck</u>		Drainage Class: <u>very poorly drained</u>		Circle	
Taxonomy (Subgroup): <u>Hyperthermic Histic Humaquepts</u>		Field Observations Confirm Mapped Type?		Yes No	
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, Subangular, blocky
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes ☐ No	Is this Sampling Point Within a Wetland?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes ☐ No		
Hydric Soils Present?	☒ Yes ☐ No		
Remarks:			

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DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *F</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	GC	OBL	8 <i>Typha</i> spp.	GC	OBL
2 <i>Panicum repens</i>	GC	OBL	9 <i>Ludwigia peruviana</i>	Shrub	OBL
3 <i>Eleocharis</i> spp.	GC	OBL	10		
4 <i>Drosera</i> spp.	GC	OBL	11		
5 <i>Aster carolinianus</i>	GC	OBL	12		
6 <i>Andropogon glomeratus</i>	GC	FACW	13		
7 <i>Pontederia cordata</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 48+"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☒ Other (explain in remarks)
Remarks: <u>Open water with resident alligator.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Sanibel muck, Smyrna fine sands</u>	Drainage Class: <u>poorly to v. poorlydrained</u> Circle				
Taxonomy (Subgroup): <u>Spodic Psammaquent, Histic Humaquepts, Aeris Alaquods</u>	Field Observations Confirm Mapped Type? Yes ☒ No ☐				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-2	Ag	10 YR 3/1	10YR 7/2		Rubbed fine sand; weak fine granular
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
0-3	A1	10YR 2/1			Crushed sand, coarse granular
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Hydric Soils Present? ☒ Yes ☐ No
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No		
Remarks: _____		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *G</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Eleocharis</i> spp.	GC	OBL	8		
2 <i>Bacopa caroliniana</i>	GC	OBL	9		
3 <i>Panicum repens</i>	GC	FACW	10		
4 <i>Andropogon glomeratus</i>	GC	FACW	11		
5 <i>Myrica cerifera</i>	Shrub	FAC+	12		
6 <i>Pontederia cordata</i>	GC	OBL	13		
7 <i>Typha latifolia</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Seperated from Wetland F by access road to Water Treatment Facility. Also contains small pocket of freshwater marsh.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands	Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 – 12"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)		
Remarks: _____		

SOILS

Map Unit Name (Series and Phase): <u>Smyrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u>	Circle			
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? <u>Yes</u>	No			
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators: ☐ Histosol ☒ Reducing Conditions ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Histic Epipedon ☒ Gleyed or Low-Chroma Colors ☐ Listed on National Hydric Soils List ☐ Sulfidic Odor ☐ Concretions ☐ Listed on Local Hydric Soils List ☐ Aquic Moisture Regime ☒ Organic Streaking in Sandy Soils ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

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DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry-Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *H</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Eleocharis</i> spp.	GC	OBL	8		
2 <i>Bacopa caroliniana</i>	GC	OBL	9		
3 <i>Panicum repens</i>	GC	FACW	10		
4 <i>Andropogon glomeratus</i>	GC	FACW	11		
5 <i>Myrica cerifera</i>	Shrub	FAC+	12		
6 <i>Pontederia cordata</i>	GC	OBL	13		
7 <i>Typha latifolia</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Seperated from Wetland F by access road to Water Treatment Facility.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 12"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Smyrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☒ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Remarks:		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *J</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Ludwigia octovalvis</i>	GC	OBL	8		
2 <i>Eleocharis</i> spp.	GC	OBL	9		
3 <i>Fuirena pumila</i>	GC	OBL	10		
4 <i>Proserpinaca</i> spp.	GC	OBL	11		
5 <i>Ludwigia arcuata</i>	GC	OBL	12		
6 <i>Lycopodium cernuum</i>	GC	FACW	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Depression in t-line.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0</u> " (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0</u> " (In.)	
Remarks: <u>Algal mats.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes ☒ No ☐				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: <u>Algal mats.</u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Hydric Soils Present? ☒ Yes ☐ No
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No		
Remarks: _____		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *K</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Fuirena pumila</i>	GC	OBL	8		
2 <i>Juncus repens</i>	GC	OBL	9		
3 <i>Eleocharis</i> spp.	GC	OBL	10		
4 <i>Drosera</i> spp.	GC	OBL	11		
5 <i>Rhynchospora cephalantha</i>	GC	OBL	12		
6 <i>Ludwigia arcuata</i>	GC	OBL	13		
7 <i>Proserpinaca</i> spp.	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Isolated depressional wetland.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 6"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>	Drainage Class: <u>poorly to v. poorly drained</u> Circle				
Taxonomy (Subgroup): <u>Spodic Psammaquents</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-2	Ag	10 YR 3/1	10YR 7/2		Fine sand; granular
2-18	Eg	10YR 7/2	10 YR 3/2		Lt. Gray fine sand
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>				Date: <u>20 Nov 09</u>	
Applicant/Owner: <u>OUC</u>				County: <u>Orange</u>	
Investigator: <u>Arrants</u>				State: <u>Florida</u>	
Do Normal Circumstances exist on the site?	☒	Yes	☐	No	Community ID: <u>641</u>
Is the site significantly disturbed (Atypical Situation)?	☒	Yes	☐	No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐	Yes	☒	No	Plot ID: <u>Wetland *L</u>

VEGETATION

Dominant Plant Species		Stratum	Indicator	Dominant Plant Species		Stratum	Indicator
1	<i>Fuirena pumila</i>	GC	OBL	8			
2	<i>Xyris</i> spp.	GC	OBL	9			
3	<i>Eleocharis</i> spp.	GC	OBL	10			
4	<i>Hydrocotyle umbellata</i>	GC	OBL	11			
5	<i>Rhynchospora cephalantha</i>	GC	OBL	12			
6	<i>Bacopa caroliniana</i>	GC	OBL	13			
7	<i>Drosera</i> spp.	GC	OBL	14			
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%							
Remarks: Depressional wetland that connects to cypress dominated wetland north of t-line.							

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available		Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands		<i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)	
Field Observations: Depth of Surface Water: _____ (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: _____ (In.)		Remarks:			

SOILS

Map Unit Name (Series and Phase):		Basinger Fine Sand, Depressional		Drainage Class: poorly to v. poorlydrained		Circle	
Taxonomy (Subgroup):		Spodic Psammaquents		Field Observations Confirm Mapped Type?		Yes No	
Profile Description:							
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.		
0-2	Ag	10 YR 3/1	10YR 7/2		Fine sand; granular		
2-18	Eg	10YR 7/2	10 YR 3/2		Lt. Gray fine sand		
Hydric Soil Indicators:							
☐	Histosol	☒	Reducing Conditions	☐	High Organic Content in Surface Layer in Sandy Soils		
☐	Histic Epipedon	☒	Gleyed or Low-Chroma Colors	☐	Listed on National Hydric Soils List		
☐	Sulfidic Odor	☐	Concretions	☐	Listed on Local Hydric Soils List		
☒	Aquic Moisture Regime	☐	Organic Streaking in Sandy Soils	☐	Other (explain in remarks)		
Remarks:							

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒	Yes	☐	No	Is this Sampling Point Within a Wetland?	☒	Yes	☐	No
Wetland Hydrology Present?	☒	Yes	☐	No					
Hydric Soils Present?	☒	Yes	☐	No					
Remarks:									

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *M</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Pontederia cordata</i>	GC	OBL	8		
2 <i>Panicum hemitomon</i>	GC	FACW	9		
3 <i>Cephalanthus occidentalis</i>	shrub	OBL	10		
4 <i>Hydrocotyle umbellata</i>	GC	OBL	11		
5 <i>Rhynchospora cephalantha</i>	GC	OBL	12		
6 <i>Juncus effusus</i>	GC	FACW	13		
7 <i>Drosera</i> spp.	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditch connecting cypress strands north and south of the t-line. Ditch runs through culvert under the accss road.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 6"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Sanibel muck</u>	Drainage Class: <u>very poorly drained</u> Circle				
Taxonomy (Subgroup): <u>Hyperthermic Histic Humaquepts</u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
7-9	Oa2	5YR 2/2	10YR 6/4		Muck, Subangular, blocky
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Hydric Soils Present? ☒ Yes ☐ No		
Remarks:		

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *O</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Rhynchospora cephalantha</i>	GC	OBL	8 <i>Bacopa caroliniana</i>	GC	OBL
2 <i>Panicum repens</i>	GC	OBL	9 <i>Hydrocotyle umbellata</i>	GC	FACW
3 <i>Eleocharis</i> spp.	GC	OBL	10		
4 <i>Drosera</i> spp.	GC	OBL	11		
5 <i>Lachnanthes caroliniana</i>	GC	FACW	12		
6 <i>Proserpinaca</i> spp.	GC	OBL	13		
7 <i>Bacopa monerli</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of wetland is dominated by wet prairie with smaller sections of ditches (511) and freshwater marsh (641).

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 – 12"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☒ FAC-Neutral Test ☒ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Samsula muck, Smyrna fine sands</u>	Drainage Class: <u>poorly to v. poorly drained</u> Circle				
Taxonomy (Subgroup): <u>Spodic Psammaquent, Terric Haplosaprists, Aeris Alaquods</u>	Field Observations Confirm Mapped Type? Yes ☒ No ☐				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-2	Ag	10 YR 3/1	10YR 7/2		Rubbed fine sand; weak fine granular
0-9	Oa1	5YR 2/1	10YR 3/2		Muck, subangular, blocky
0-3	A1	10YR 2/1			Crushed sand, coarse granular
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

Form Content Approved by HQUSACE 3/92

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *Q</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Rhynchospora cephalantha</i>	GC	OBL	8 <i>Bacopa caroliniana</i>	GC	OBL
2 <i>Panicum repens</i>	GC	OBL	9 <i>Hydrocotyle umbellata</i>	GC	FACW
3 <i>Eleocharis</i> spp.	GC	OBL	10		
4 <i>Drosera</i> spp.	GC	OBL	11		
5 <i>Lachnanthes caroliniana</i>	GC	FACW	12		
6 <i>Proserpinaca</i> spp.	GC	OBL	13		
7 <i>Bacopa monerli</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Wet prairie with smaller portions of ditch (511) and freshwater marsh (641).

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0-6 "</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v.poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes ☒ No ☐				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *R</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha latifolia</i>	GC	OBL			
2 <i>Ludwigia repens</i>	GC	OBL			
3 <i>Juncus effusus</i>	GC	FACW			
4 <i>Panicum repens</i>	GC	FACW			
5 <i>Sagittaria lancifolia</i>	GC	OBL			
6					
7					

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Ditch along Young Pine Road.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0-12"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Symrna Fine Sand</u>	Drainage Class: <u>Poorly to v. poorly drained.</u> Circle				
Taxonomy (Subgroup): <u>Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes ☒ No ☐				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A1	10YR 2/1			Crushed sand, coarse granular
3-6	A2	10 YR 3/1			Crushed sand, single grained
6-13	E	10 YR 5/1	10 YR 3/1		Fine sand

Hydric Soil Indicators:	☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils	☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)
☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Aquic Moisture Regime		

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes ☐ No	Is this Sampling Point Within a Wetland?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes ☐ No		
Hydric Soils Present?	☒ Yes ☐ No		
Remarks: _____			

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>				Date: <u>20 Nov 09</u>	
Applicant/Owner: <u>OUC</u>				County: <u>Orange</u>	
Investigator: <u>Arrants</u>				State: <u>Florida</u>	
Do Normal Circumstances exist on the site?	☒	Yes	☐	No	Community ID: <u>511</u>
Is the site significantly disturbed (Atypical Situation)?	☒	Yes	☐	No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐	Yes	☒	No	Plot ID: <u>Wetland *S</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Rhynchospora cephalantha</i>	GC	OBL	8		
2 <i>Juncus effusus</i>	GC	FACW	9		
3 <i>Panicum repens</i>	GC	FACW	10		
4 <i>Alternanthera philoxeroides</i>	GC	OBL	11		
5 <i>Spartina bakeri</i>	GC	FACW	12		
6 <i>Eupatorium capillifolium</i>	GC	FACU	13		
7 <i>Drosera</i> spp.	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 85%

Remarks: Ditch with connecting area of wet prairie.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands
Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: _____	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>			Drainage Class: <u>poorly to v. poorlydrained</u>		Circle
Taxonomy (Subgroup): <u>Spodic Psammaquents</u>			Field Observations Confirm Mapped Type?		Yes No
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-2	Ag	10 YR 3/1	10YR 7/2		Fine sand; granular
2-18	Eg	10YR 7/2	10 YR 3/2		Lt. Gray fine sand
Hydric Soil Indicators:					
☐ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>				Date: <u>20 Nov 09</u>	
Applicant/Owner: <u>OUC</u>				County: <u>Orange</u>	
Investigator: <u>Arrants</u>				State: <u>Florida</u>	
Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Community ID: <u>641</u>		
Is the site significantly disturbed (Atypical Situation)?	☒ Yes	☐ No	Transect ID: _____		
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐ Yes	☒ No	Plot ID: <u>Wetland *T</u>		

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha latifolia</i>	GC	OBL	8 <i>Pontederia cordata</i>	GC	OBL
2 <i>Cephalanthus occidentalis</i>	GC	OBL	9		
3 <i>Panicum repens</i>	GC	FACW	10		
4 <i>Alternanthera philoxeroides</i>	GC	OBL	11		
5 <i>Juncus effusus</i>	GC	FACW	12		
6 <i>Rhynchospora cephalantha</i>	GC	OBL	13		
7 <i>Fuirena pumila</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 85%

Remarks: Freshwater marsh adjacent to the West ROW of the 417 Expressway.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available		Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands		Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)	
Field Observations: Depth of Surface Water: <u>0-6"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)					
Remarks: _____					

SOILS

Map Unit Name (Series and Phase): <u>Felda Fine Sand, Depressional, frequently flooded</u>			Drainage Class: <u>poorly to v. poorlydrained</u> Circle		
Taxonomy (Subgroup): <u>Loamy, siliceous, hyperthermic Arenic Endoaqualls</u>			Field Observations Confirm Mapped Type? Yes No		
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10 YR 2/1			Fine sand; granular
4-35	Eg	10 YR 7/2	10YR 6/4		Fine sand; loose
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>	Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>	County: <u>Orange</u>
Investigator: <u>Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>Wetland *U</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Polygonum spp.</i>	GC	FACW	8 <i>Ludwigia repens</i>	GC	OBL
2 <i>Panicum repens</i>	GC	OBL	9 <i>Panicum hemitomon</i>	GC	FACW
3 <i>Eleocharis spp.</i>	GC	OBL	10		
4 <i>Pontederia cordata</i>	GC	OBL	11		
5 <i>Sagittaria lancifolia</i>	GC	OBL	12		
6 <i>Andropogon glomeratus</i>	GC	FACW	13		
7 <i>Bacopa caroliniana</i>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: _____

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☒ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands
Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☒ Other (explain in remarks)

Remarks: Algal mats.

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Sanibel muck, Smyrna fine sands</u>	Drainage Class: <u>poorly to v. poorly drained</u> Circle
Taxonomy (Subgroup): <u>Spodic Psammaquent, Histic Humaquepts, Aeric Alaquods</u>	Field Observations Confirm Mapped Type? Yes ☒ No ☐

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-2	Ag	10 YR 3/1	10YR 7/2		Rubbed fine sand; weak fine granular
0-7	Oa1	N 2/0	10YR 6/4		Muck, subangular, blocky
0-3	A1	10YR 2/1			Crushed sand, coarse granular

Hydric Soil Indicators:

☐ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☐ Concretions	☐ Listed on Local Hydric Soils List
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	

Remarks: _____

DATA FORM

ROUTINE WETLAND DETERMINATION

Project Site: <u>Stanton to Curry Ford Substation T-line</u>		Date: <u>20 Nov 09</u>
Applicant/Owner: <u>OUC</u>		County: <u>Orange</u>
Investigator: <u>Arrants</u>		State: <u>Florida</u>
Do Normal Circumstances exist on the site?	☒ Yes ☐ No	Community ID: <u>643</u>
Is the site significantly disturbed (Atypical Situation)?	☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse)	☐ Yes ☒ No	Plot ID: <u>Wetland *V</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <u>Bacopa caroliniana</u>	GC	OBL	8		
2 <u>Proserpinaca spp.</u>	GC	OBL	9		
3 <u>Eleocharis spp.</u>	GC	FACW	10		
4 <u>Juncus effusus</u>	GC	FACW	11		
5 <u>Panicum repens</u>	GC	FACW	12		
6 <u>Hydrocotyle umbellata</u>	GC	FACW	13		
7 <u>Fuirena pumila</u>	GC	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Isolated wet prairie.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0"</u> (In.) Depth to Free Water in Pit: _____ (In.) Depth to Saturated Soil: <u>0"</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks:	

SOILS

Map Unit Name (Series and Phase): <u>Basinger Fine Sand, Depressional</u>		Drainage Class: <u>poorly to v. poorlydrained</u>	Circle
Taxonomy (Subgroup): <u>Spodic Psammaquents</u>		Field Observations Confirm Mapped Type? <u>Yes</u>	No
Profile Description:			
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)
0-2	Ag	10 YR 3/1	10YR 7/2
2-18	Eg	10YR 7/2	10 YR 3/2
Hydric Soil Indicators: ☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☐ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)			
Remarks:			

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes ☐ No	Is this Sampling Point Within a Wetland?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes ☐ No		
Hydric Soils Present?	☒ Yes ☐ No		
Remarks:			

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Pershing to Stanton		Application Number		Assessment Area Name or Number Wetlands L, *R - Ditch	
FLUCCs code 511		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 0.026 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101	Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)		
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Roadside ditch adjacent to Young Pine Road, continues outside of transmission line ROW adjacent to roadway.					
Assessment area description Mowed, maintained, and herbicided ditch adjacent to Young Pine Road. Dominant species in the ditch include torpedo grass (<i>Panicum repens</i>), marsh pennywort (<i>Hydrocotyle umbellata</i>), frogfruit (<i>Phyla nodiflora</i>), and coinwort (<i>Centella asiatica</i>)					
Significant nearby features Young Pine Road, apartment complex			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, natural water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible but unlikely occasional use by wading birds such as white ibis (SSC), little blue heron (SSC), snowy egret (SSC), or tricolor heron (SSC).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Dec-13		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Pershing to Stanton	Application Number	Assessment Area Name or Number Wetlands L, *R - Ditch
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Dec-13

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to location of excavated ditch adjacent to busy roadway within surrounding cleared transmission line ROW, and adjacent residential and commercial development. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 4, reduced due to disturbance from maintenance mowing/herbicide, surrounding development; b) Invasive exotic species = 4, significant coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 4, little benefit, artificial drainageway; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 4, artificial drainage feature; g) Dependency of downstream areas on assessment area = 2, minimal benefit to downstream areas.
	4		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is reduced due to proximity of roadway, maintenance and herbicide application, artificial hydroperiod resulting from excavation of drainage ditch within surrounding disturbed landscape, and adjacent development. Individual parameter scores: a) water levels and flows = 3, artificial nature of excavated ditch; b) water level indicators = 4, altered hydroperiod due to to excavated ditch; c) soil moisture = 6, consistent with expected; d) soil erosion or deposition = 4, erosion from roadway, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 3, artificial system, significant upland species encroachment; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/changed hydrology; i) vegetative species tolerant of and associated with water quality degradation = 3, indication of high nutrients, cattails and exotic species; j) direct observation of water quality = 3, high nutrients evident due to nuisance/exotic vegetation; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	4		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is reduced due to significant coverage of exotic/nuisance species, mowing, maintenance, herbicide application, and excavated, artificial nature of drainage ditch. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 4, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 6, significant coverage of exotic/nuisance species; c) regeneration and recruitment = 4, artificial system, recruitment impacted by surrounding development and diminished hydroperiod; d) age & size distribution = 4, typical of artificial drainage ditch, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 6, reduced due to maintenance and herbicide; g) land management practices = 5, due to alteration of community structure by routine maintenance; h) topographic features = 4, artificial excavated system; i) siltation or algal growth in submerged aquatic plant communities = N/A
	4		

Score = sum of above scores/30 (if uplands, divide by 20)		
current		with
or w/o pres	0.40	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.4

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Pershing to Stanton		Application Number		Assessment Area Name or Number Wetlands A, B, C2, C3, X, Z, *M, *S - Ditches	
FLUCCs code 511		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 1.719 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Ditches are generally located along the edge of the cleared transmission line right-of-way or adjacent to roads. They typically connect to other ditches, surface waters, or wetlands.					
Assessment area description Ditches within cleared transmission line right-of-way, dominated by a variety of native and nuisance/exotic species such as torpedo grass (<i>Panicum repens</i>), marsh pennywort (<i>Hydrocotyle umbellata</i>), cattail (<i>Typha</i> sp.), maidencane (<i>Panicum hemitomon</i>), water hyssop (<i>Bacopa caroliniana</i>), smartweed (<i>Polygonum</i> sp.), bunched beaksedge (<i>Rhychospora cephalantha</i>), yellow-eyed grass (<i>Xyris</i> sp.), needlepod rush (<i>Juncus scirpoides</i>) coinwort (<i>Centella asiatica</i>), spike rush (<i>Eleocharis</i> sp.) and dogfennel (<i>Eupatorium capillifolium</i>).					
Significant nearby features Transmission line right-of-way, roadways, residential development, Stanton Energy Center			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible but unlikely occasional use by wading birds such as white ibis (SSC), little blue heron (SSC), snowy egret (SSC), or tricolor heron (SSC).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors: 					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Dec-13		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Pershing to Stanton	Application Number	Assessment Area Name or Number Wetlands A, B, C2, C3, X, Z, *M, *S - Ditches
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Dec-13

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to location of excavated ditches within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 5, reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 5, moderate coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 5, moderate benefit, artificial drainageways; e) Impacts to wildlife listed in Part 1 by outside land uses = 5, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 6, artificial drainage features connect to adjacent areas; g) Dependency of downstream areas on assessment area = 4, moderate benefit to downstream areas.
	5		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is reduced due to artifical hydroperiod resulting from excavation of drainage ditches within surrounding disturbed landscape. Individual parameter scores: a) water levels and flows = 5, artificial nature of excavated ditches; b) water level indicators = 4, altered hydroperiod due to to excavated ditches; c) soil moisture = 6, consistent with expected; d) soil erosion or deposition = 5, erosion from roadways, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 3, artificial system, significant upland species encroachment; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/altered hydrology; i) vegetative species tolerant of and associated with water quality degradation = 4, indication of high nutrients, cattails and exotic species; j) direct observation of water quality = 5, elevated nutrients evident due to algal growth and nuisance/exotic vegetation; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	5		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is reduced due to coverage of exotic/nuisance species and excavated, artificial nature of drainage ditches. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 6, significant coverage of exotic/nuisance species; c) regeneration and recruitment = 4, artificial system, recruitment impacted by surrounding development and diminished hydroperiod; d) age & size distribution = 5, typical of artificial drainage ditch, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 6, reduced due to maintenance and herbicide; g) land management practices = 5, due to alteration of community structure by routine maintenance; h) topographic features = 6, artificial excavated system; i) siltation or algal growth in submerged aquatic plant communities = N/A
	6		

Score = sum of above scores/30 (if uplands, divide by 20)		
current or w/o pres	with	
0.53		

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.53

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Pershing to Stanton		Application Number		Assessment Area Name or Number Wetland C, AD, AE - Reservoirs	
FLUCCs code 534		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 3.528 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Reservoirs within transmission line right-of-way.					
Assessment area description Reservoir located south of Innovation Way and adjacent to Pershing substation, vegetated with a mixture of nuisance/exotic and native species, including cattail (<i>Typha latifolia</i>), torpedo grass (<i>Panicum repens</i>), Peruvian primrose willow (<i>Ludwigia peruviana</i>), soft rush (<i>Juncus effusus</i>), Chinese tallow (<i>Sapium sebiferum</i>), elderberry (<i>Sambucus canadensis</i>), bushy broomsedge (<i>Andropogon glomeratus</i>), and red maple (<i>Acer rubrum</i>).					
Significant nearby features Transmission line right-of-way, Innovation Way, Stanton Energy Center, Pershing substation			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, forage fishes, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Dec-13		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Pershing to Stanton	Application Number	Assessment Area Name or Number Wetland C1, AD, AE - Reservoirs
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Dec-13

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to location of excavated reservoir within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 6, somewhat reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 6, moderate coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 4, minimal benefit, isolated feature; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 4, isolated system; g) Dependency of downstream areas on assessment area = 4, little benefit to downstream areas.
	6		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is reduced due to proximity of roadway, artifical hydroperiod resulting from excavation of reservoir within surrounding disturbed landscape, and adjacent development. Individual parameter scores: a) water levels and flows = 3, artificial nature of excavation; b) water level indicators = 4, altered hydroperiod due to to excavated reservoir; c) soil moisture = 6, consistent with expected; d) soil erosion or deposition = 4, erosion from roadway, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 3, artificial system, limited littoral zone; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/alteted hydrology; i) vegetative species tolerant of and associated with water quality degradation = 3, some indication of high nutrients, cattails and exotic species; j) direct observation of water quality = 3, high nutrients evident due to nuisance/exotic vegetation; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	4		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is reduced due to moderate coverage of exotic/nuisance species and excavated, artificial nature of the reservoir. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 6, moderate coverage of exotic/nuisance species; c) regeneration and recruitment = 4, artificial system, recruitment impacted by ROW maintenance; d) age & size distribution = 6, typical of isolated reservoir, impacted due to maintenence; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 7, reduced due to maintenance and herbicide; g) land management practices = 6, minimal surrounding development, reduced due to routine maintenance; h) topographic features = 6, typical for assessment area; i) siltation or algal growth in submerged aquatic plant communities = N/A
	6		

Score = sum of above scores/30 (if uplands, divide by 20)		
current or w/o pres	with	
0.53		

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.53

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Pershing to Stanton		Application Number		Assessment Area Name or Number Wetlands R, V - Mixed Hardwoods/Hardwood-Conifer Wetlands	
FLUCCs code 617 and 630		Further classification (optional)		Impact or Mitigation Site? Existing Condition	
				Assessment Area Size 0.006 acres	
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Forested wetlands loated on the edge of the transmission ROW, east and west of S Econlockhatchee Trail					
Assessment area description Forested wetlands supporting a variety of primarily native species of vegetation, including cypress (<i>Taxodium ascendens</i>), red maple (<i>Acer rubrum</i>), slash pine (<i>Pinus elliottii</i>), wax myrtle (<i>Myrica cerifera</i>), sweet bay (<i>Magnolia virginiana</i>), dahoon holly (<i>Ilex cassine</i>), elderberry (<i>Sambucus canadensis</i>), maidencane (<i>Panicum hemitomom</i>), and Virginia chain fern (<i>Woodwardia virginica</i>).					
Significant nearby features Transmission line right-of-way, roadways, residential development			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC), as well as foraging by American alligator (S/A).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Dec-13		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Pershing to Stanton	Application Number	Assessment Area Name or Number Wetlands R, V - Mixed Hardwoods/Hardwood-Conifer Wetlands
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Dec-13

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10) Condition is optimal and fully supports wetland/surface water functions	Moderate(7) Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal (4) Minimal level of support of wetland/surface water functions	Not Present (0) Condition is insufficient to provide wetland/surface water functions
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.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to location of forested wetlands adjacent to cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 6, slightly reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 7, some coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 6, moderate benefit, limited connections to downstream areas; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 6, moderate benefit; g) Dependency of downstream areas on assessment area = 6, moderate benefit to downstream areas.
	6		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is slightly reduced due to location within surrounding cleared transmission line right-of-way and alteration of drainage patterns. Individual parameter scores: a) water levels and flows = 6, altered due to land clearing, ditching; b) water level indicators = 6, somewhat reduced compared to typical; c) soil moisture = 7, consistent with expected; d) soil erosion or deposition = 8, minimal erosion; e) evidence of fire history = N/A; f) vegetation community zonation = 6, typical of assessment area; g) hydrologic stress on vegetation = 5, some upland and transitional species encroachment; h) use by animal species with specific hydrological requirements = 6, due to surrounding altered landscape/altered hydrology; i) vegetative species tolerant of and associated with water quality degradation = 7, some exotic species present; j) direct observation of water quality = 7, some nutrient enrichment likely due to presence of nuisance/exotic vegetation, transmission line ROW maintenance; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	6		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is slightly reduced from disturbance due to right-of-way maintenance. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, variety of native species, some non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 7, moderate coverage of exotic/nuisance species; c) regeneration and recruitment = 7, recruitment impacted by ROW maintenance; d) age & size distribution = 6, typical of assessment area type, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 6, reduced due to maintenance and herbicide; g) land management practices = 6, reduced due to routine maintenance; h) topographic features = 7, typical for assessment area; i) siltation or algal growth in submerged aquatic plant communities = N/A
	6		

Score = sum of above scores/30 (if uplands, divide by 20)		
current		with
or w/o pres	0.60	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.6

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Pershing to Stanton		Application Number		Assessment Area Name or Number Wetland Y - Cypress Dome	
FLUCCs code 621		Further classification (optional)		Impact or Mitigation Site? Existing Condition	
				Assessment Area Size N/A - outside ROW	
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Forested wetlands loated on the edge of the transmission ROW, east and west of S Econlockhatchee Trail					
Assessment area description Forested wetlands supporting a variety of primarily native species of vegetation, including cypress (<i>Taxodium ascendens</i>), red maple (<i>Acer rubrum</i>), slash pine (<i>Pinus elliottii</i>), wax myrtle (<i>Myrica cerifera</i>), sweet bay (<i>Magnolia virginiana</i>), dahoon holly (<i>Ilex cassine</i>), elderberry (<i>Sambucus canadensis</i>), maidencane (<i>Panicum hemitomom</i>), and Virginia chain fern (<i>Woodwardia virginica</i>).					
Significant nearby features Transmission line right-of-way, roadways, residential development			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC), as well as foraging by American alligator (S/A).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Dec-13		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Pershing to Stanton	Application Number	Assessment Area Name or Number Wetlands Y - Cypress Dome
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Dec-13

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to immediate proximity of parking lot, school, and cleared location of forested wetlands adjacent to cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 5, reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 7, some coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 6, moderate benefit, limited connections to downstream areas; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 6, moderate benefit; g) Dependency of downstream areas on assessment area = 6, moderate benefit to downstream areas.
	5		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is greatly reduced due to historical drainage. Individual parameter scores: a) water levels and flows = 3, highly altered due to land clearing, ditching; b) water level indicators = 3, significantly reduced compared to typical; c) soil moisture = 4, decreased relative to expected; d) soil erosion or deposition = 4, evidence of subsidence; e) evidence of fire history = N/A; f) vegetation community zonation = 3, upland encroachment evident; g) hydrologic stress on vegetation = 3, upland and transitional species encroachment; h) use by animal species with specific hydrological requirements = 3, due to surrounding altered landscape/altered hydrology; i) vegetative species tolerant of and associated with water quality degradation = 5, some exotic species present; j) direct observation of water quality = N/A, no water present; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	3		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is slightly reduced from disturbance due to historical drainage, right-of-way maintenance, and adjacent development. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, variety of native species, some non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 6, moderate coverage of exotic/nuisance species; c) regeneration and recruitment = 6, recruitment impacted by ROW maintenance; d) age & size distribution = 5, typical of assessment area type, impacted due to maintenance, altered hydrology; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 6, reduced due to maintenance and herbicide; g) land management practices = 6, reduced due to routine maintenance; h) topographic features = 6, less than typical for assessment area; i) siltation or algal growth in submerged aquatic plant communities = N/A
	6		

Score = sum of above scores/30 (if uplands, divide by 20)		
current		with
or w/o pres	0.47	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.47

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

**PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)**

Site/Project Name OUC Pershing to Stanton		Application Number		Assessment Area Name or Number Wetland AA - Freshwater Marsh/Wet Prairie	
FLUCCs code 641/643		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 0.285 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101	Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)		
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Wetland AA connects to ditch (Wetland Z) and wet prairie (Wetland AB) through culverts underneath existing access road					
Assessment area description Wet prairie/freshwater marsh wetland dominated by nuisance/exotic species paragrass (<i>Urochloa mutica</i>) and torpedo grass (<i>Panicum repens</i>), as well as native species elderberry (<i>Sambucus canadensis</i>). Subdominant species include Brazilian pepper (<i>Schinus terebinthifolius</i>), tickseed sunflower (<i>Bidens alba</i>), primrose willow (<i>Ludwigia peruviana</i>), and bahia grass (<i>Paspalum notatum</i>).					
Significant nearby features Transmission line ROW, residential development, S Goldenrod Road			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Dec-13		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Pershing to Stanton	Application Number	Assessment Area Name or Number Wetland AA - Freshwater Marsh/Wet Prairie
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Dec-13

Scoring Guidance The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support w/o pres or currentwith 6	Location and landscape support variable is reduced due to location of marsh adjacent to roadway within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 6, reduced due to disturbance from maintenance mowing/herbicide, surrounding development; b) Invasive exotic species = 5, significant coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 6, little benefit; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 6, connected to other wetlands within ROW; g) Dependency of downstream areas on assessment area = 5, little benefit to downstream areas.		
.500(6)(b)Water Environment (n/a for uplands) w/o pres or currentwith 6	The water environment score is reduced due to proximity of roadway, surrounding disturbed landscape, and adjacent development. Individual parameter scores: a) water levels and flows = 6, marginal hydroperiod; b) water level indicators = 6, altered hydroperiod due to adjacent roadway, clearing; c) soil moisture = 6, consistent with expected; d) soil erosion or deposition = 6, erosion from roadway, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 6, some upland encroachment noted; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/changed hydrology; i) vegetative species tolerant of and associated with water quality degradation = 6, some indication of high nutrients, exotic species; j) direct observation of water quality = 6, high nutrients likely due to nuisance/exotic vegetation; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or currentwith 6	The community structure variable is reduced due to dominance of exotic/nuisance species and disturbed landscape. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 5, significant coverage of exotic/nuisance species; c) regeneration and recruitment = 6, recruitment impacted by ROW maintenance; d) age & size distribution = 6, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 7, reduced due to maintenance and herbicide; g) land management practices = 6, reduced due to routine maintenance; h) topographic features = 6, typical for assessment area; i) siltation or algal growth in submerged aquatic plant communities = N/A		

Score = sum of above scores/30 (if uplands, divide by 20)		
current		with
or w/o pres		
0.60		

Delta = [with-current]
0.6

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

If mitigation
Time lag (t-factor) =
Risk factor =

For impact assessment areas
FL = delta x acres =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

**PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)**

Site/Project Name OUC Pershing to Stanton		Application Number		Assessment Area Name or Number Wetland *T - Freshwater Marsh	
FLUCCs code 641		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 0.112 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Connects to ditch adjacent to State Road 417					
Assessment area description Freshwater marsh adjacent to SR 417 dominated by nuisance/exotic species cattail (<i>Typha latifolia</i>) and torpedo grass (<i>Panicum repens</i>), with subdominant species including buttonbush (<i>Cephalanthus occidentalis</i>), marsh pennywort (<i>Hydrocotyle umbellata</i>), pickerelweed (<i>Pontederia cordata</i>), soft rush (<i>Juncus effusus</i>), yellow-eyed grass (<i>Xyris</i> sp.), sedges (<i>Cyperus</i> sp.), and dogfennel (<i>Eupatorium capillifolium</i>).					
Significant nearby features Transmission line right-of-way, State Road 417			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Nov-2009 and Dec-2013		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Pershing to Stanton	Application Number	Assessment Area Name or Number Wetland *T - Freshwater Marsh
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Nov-2009 and Dec-2013

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to location of marsh adjacent to roadway within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 4, reduced due to disturbance from maintenance mowing/herbicide, surrounding development; b) Invasive exotic species = 4, significant coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 4, little benefit; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 4, connected to artificial excavated ditch under SR 417; g) Dependency of downstream areas on assessment area = 4, little benefit to downstream areas.
	4		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is reduced due to proximity of roadway, surrounding disturbed landscape, and adjacent development. Individual parameter scores: a) water levels and flows = 5, marginal hydroperiod; b) water level indicators = 5, altered hydroperiod due to adjacent roadway, clearing; c) soil moisture = 6, consistent with expected; d) soil erosion or deposition = 5, erosion from roadway, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 6, some upland encroachment noted; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/altered hydrology; i) vegetative species tolerant of and associated with water quality degradation = 5, some indication of high nutrients, cattails and exotic species; j) direct observation of water quality = 5, high nutrients likely due to nuisance/exotic vegetation; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	5		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is reduced due to dominance of exotic/nuisance species and disturbed landscape. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 5, significant coverage of exotic/nuisance species; c) regeneration and recruitment = 6, recruitment impacted by ROW maintenance; d) age & size distribution = 6, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 7, reduced due to maintenance and herbicide; g) land management practices = 6, reduced due to routine maintenance; h) topographic features = 6, typical for assessment area; i) siltation or algal growth in submerged aquatic plant communities = N/A
	6		

Score = sum of above scores/30 (if uplands, divide by 20)	
current	with
0.50	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.5

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Pershing to Stanton		Application Number		Assessment Area Name or Number Wetland S - Freshwater Marsh	
FLUCCs code 641		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 0.011 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Freshwater marsh extending into transmission ROW, west of S Econlockhatchee Trail					
Assessment area description Freshwater marsh areas supporting a variety of native species of vegetation, including maidencane (<i>Panicum hemitomon</i>), Virginia chain fern (<i>Woodwardia virginica</i>), red maple (<i>Acer rubrum</i>), cordgrass (<i>Spartina bakeri</i>), swamp bay (<i>Persea palustris</i>), coinwort (<i>Centella asiatica</i>), marsh pennywort (<i>Hydrocotyle umbellata</i>), and bushy broomsedge (<i>Andropogon glomeratus</i>).					
Significant nearby features Transmission line right-of-way			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC), as well as foraging by American alligator (S/A).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Dec-13		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Pershing to Stanton	Application Number	Assessment Area Name or Number Wetland S - Freshwater Marsh
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Dec-13

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to location of marsh within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 7, slightly reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 7, some coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 6, moderate benefit, limited connections to downstream areas; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 6, moderate benefit; g) Dependency of downstream areas on assessment area = 6, moderate benefit to downstream areas.
	6		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is slightly reduced due to location within surrounding cleared transmission line right-of-way and alteration of drainage patterns. Individual parameter scores: a) water levels and flows = 6, altered due to land clearing, ditching; b) water level indicators = 6, somewhat reduced compared to typical; c) soil moisture = 7, consistent with expected; d) soil erosion or deposition = 8, minimal erosion; e) evidence of fire history = N/A; f) vegetation community zonation = 6, typical of assessment area; g) hydrologic stress on vegetation = 5, some upland and transitional species encroachment; h) use by animal species with specific hydrological requirements = 6, due to surrounding altered landscape/altered hydrology; i) vegetative species tolerant of and associated with water quality degradation = 7, some exotic species present; j) direct observation of water quality = 7, some nutrient enrichment likely due to presence of nuisance/exotic vegetation, transmission line ROW maintenance; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	6		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is slightly reduced from disturbance due to right-of-way maintenance. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 7, maintenance typically removes shrub/canopy stratum, variety of native species, some non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 7, moderate coverage of exotic/nuisance species; c) regeneration and recruitment = 7, recruitment impacted by ROW maintenance; d) age & size distribution = 6, typical of assessment area type, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 7, reduced due to maintenance and herbicide; g) land management practices = 6, reduced due to routine maintenance; h) topographic features = 7, typical for assessment area; i) siltation or algal growth in submerged aquatic plant communities = N/A
	7		

Score = sum of above scores/30 (if uplands, divide by 20)		
current		
or w/o pres	with	
0.63		

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.63

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Pershing to Stanton		Application Number		Assessment Area Name or Number Wetlands *C,*H, *F, *K, *L - Freshwater Marsh	
FLUCCs code 641		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 1.50 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Freshwater marsh areas adjacent to forested upland and wetland systems outside of the right-of-way.					
Assessment area description Freshwater marsh areas supporting a variety of native and nuisance/exotic species of vegetation, including bunched beaksedge (<i>Rhynchospora cephalantha</i>), dwarf umbrella grass (<i>Fuirena pumila</i>), pickerelweed (<i>Pontederia cordata</i>), coinwort (<i>Centella asiatica</i>), marsh pennywort (<i>Hydrocotyle umbellata</i>), spikerush (<i>Eleocharis</i> sp.), water hyssop (<i>Bacopa monnieri</i>), cattail (<i>Typha latifolia</i>), sawgrass (<i>Cladium jamaicense</i>), torpedo grass (<i>Panicum repens</i>), soft rush (<i>Juncus effusus</i>), piedmont primrose willow (<i>Ludwigia arcuata</i>), and sundew (<i>Drosera</i> sp.).					
Significant nearby features Transmission line right-of-way			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Possible occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC), and tricolor heron (SSC), as well as foraging by American alligator (S/A).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): American alligator in excavated pond within wetland F. Great blue heron, great egret, and American alligator in pond outside of ROW, south of Wetland C.					
Additional relevant factors: 					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Nov-2009 and Dec-2013		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Pershing to Stanton	Application Number	Assessment Area Name or Number Wetlands *C, *H, *F, *K, *L - Freshwater Marsh
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Nov-2009 and Dec-2013

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to location of marshes within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 7, slightly reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 7, some coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 6, moderate benefit, limited connections to downstream areas; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 6, moderate benefit; g) Dependency of downstream areas on assessment area = 6, moderate benefit to downstream areas.
	6		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is slightly reduced due to location within surrounding cleared transmission line right-of-way and alteration of drainage patterns. Individual parameter scores: a) water levels and flows = 7, altered due to land clearing, ditching; b) water level indicators = 7, somewhat reduced compared to typical; c) soil moisture = 7, consistent with expected; d) soil erosion or deposition = 8, minimal erosion; e) evidence of fire history = N/A; f) vegetation community zonation = 7, typical of assessment area; g) hydrologic stress on vegetation = 7, some upland and transitional species encroachment; h) use by animal species with specific hydrological requirements = 6, due to surrounding altered landscape/altered hydrology; i) vegetative species tolerant of and associated with water quality degradation = 7, some exotic species present; j) direct observation of water quality = 7, some nutrient enrichment likely due to presence of nuisance/exotic vegetation, transmission line ROW maintenance; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	7		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is slightly reduced due to presence of exotic/nuisance species and disturbance due to right-of-way maintenance. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 7, maintenance typically removes shrub/canopy stratum, variety of native species, some non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 7, moderate coverage of exotic/nuisance species; c) regeneration and recruitment = 7, recruitment impacted by ROW maintenance; d) age & size distribution = 6, typical of assessment area type, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 7, reduced due to maintenance and herbicide; g) land management practices = 6, reduced due to routine maintenance; h) topographic features = 7, typical for assessment area; i) siltation or algal growth in submerged aquatic plant communities = N/A
	7		

Score = sum of above scores/30 (if uplands, divide by 20)		
current		with
or w/o pres	0.67	

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.67

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Pershing to Stanton		Application Number		Assessment Area Name or Number Wetlands F, M, N, P, Q, T, U, W, AB, AC, *J - Wet Prairie	
FLUCCs code 643		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 3.354 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Disturbed wet prairies, connect to adjacent upland and wetland areas within and outside of the right-of-way					
Assessment area description Disturbed, mowed wet prairies, vegetated with mixture of nuisance/exotic and native species including torpedo grass (<i>Panicum repens</i>), frogfruit (<i>Phyla nodiflora</i>), maidencane (<i>Panicum hemitomon</i>), flattop goldenrod (<i>Euthamia caroliniana</i>), soft rush (<i>Juncus effusus</i>), marsh pennywort (<i>Hydrocotyle umbellata</i>), dogfennel (<i>Eupatorium capillifolium</i>), dwarf umbrella grass (<i>Fuirena pumila</i>), soft rush (<i>Juncus effusus</i>), and primrose willow (<i>Ludwigia sp.</i>).					
Significant nearby features Transmission line right-of-way, residential development, roadways			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Potential, but unlikely occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC) and tricolor heron (SSC).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): 6 wood storks and 4 ibis observed to the south of transmission line ROW adjacent to Wetland N					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Dec-13		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Pershing to Stanton	Application Number	Assessment Area Name or Number Wetlands F, M, N, P, Q, T, U, W, AB, AC, *J -Wet Prairie
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Dec-13

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to location of wet prairies within surrounding cleared transmission line ROW, proximity of development. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 6, reduced due to location within cleared transmission line ROW, adjacent development; b) Invasive exotic species = 6, occasional significant coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 5, limited benefit; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 5, berms/roadways reduce connections; g) Dependency of downstream areas on assessment area = 5, little benefit to downstream areas.
	6		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is reduced due to proximity of development, cleared landscape, and marginal hydrology. Individual parameter scores: a) water levels and flows = 5, marginal hydrology; b) water level indicators = 5, less than typical for assessment area type; c) soil moisture = 5, drier than expected; d) soil erosion or deposition = 6, some erosion from roadways, maintenance, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 5, upland encroachment evident; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 5, due to surrounding altered landscape/changed hydrology; i) vegetative species tolerant of and associated with water quality degradation = 5, some indication of potential high nutrients, torpedo grass dominance; j) direct observation of water quality = N/A, no water present; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	5		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is somewhat reduced due to coverage of exotic/nuisance species torpedo grass, mowing, and right-of-way maintenance. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 6, moderate coverage of exotic/nuisance species; c) regeneration and recruitment = 6, recruitment impacted by ROW maintenance and diminished hydroperiod; d) age & size distribution = 5, typical of wet prairie, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 6, reduced due to maintenance and herbicide; g) land management practices = 5, due to alteration of community structure by routine maintenance; h) topographic features = 6, somewhat altered topography due to landclearing, development; i) siltation or algal growth in submerged aquatic plant communities = N/A
	6		

Score = sum of above scores/30 (if uplands, divide by 20)		
current		
or w/o pres	with	
0.57		

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.57

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =

PART I – Qualitative Description
(See Section 62-345.400, F.A.C.)

Site/Project Name OUC Pershing to Stanton		Application Number		Assessment Area Name or Number Wetlands D, E, G, H, I, J, K, O, *E, *G, *O, *Q, *U, *V - Wet Prairie	
FLUCCs code 643		Further classification (optional)		Impact or Mitigation Site? Existing Condition	Assessment Area Size 8.639 acres
Basin/Watershed Name/Number Upper St. John's / HUC 3080101		Affected Waterbody (Class)		Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)	
Geographic relationship to and hydrologic connection with wetlands, other surface water, uplands Wet prairies, connect to adjacent upland and wetland areas within and outside of the right-of-way					
Assessment area description Wet prairies within cleared transmission line right-of-way. Typically no inundation, but mucky hydric soils and low growth of herbaceous wetland vegetation, including primrose willow (<i>Ludwigia</i> sp.) , sundew (<i>Drosera</i> sp.), marsh pennywort (<i>Hydrocotyle umbellata</i>), coinwort (<i>Centella asiatica</i>), torpedo grass (<i>Panicum hemitomon</i>), bushy broomsedge (<i>Andropogon glomeratus</i>), yellow-eyed grass (<i>Xyris</i> sp.), bunched beaksedge (<i>Rhynchospora cephalantha</i>), water hyssop (<i>Bacopa monnieri</i>), smartweed (<i>Polygonum</i> sp.), pickerelweed (<i>Pontederia cordata</i>), frogfruit (<i>Phyla nodiflora</i>), dwarf umbrella grass (<i>Fuirena pumila</i>), and soft rush (<i>Juncus effusus</i>).					
Significant nearby features Transmission line right-of-way, residential development, roadways			Uniqueness (considering the relative rarity in relation to the regional landscape.) Not rare in relation to regional landscape		
Functions Wildlife habitat, water treatment and storage			Mitigation for previous permit/other historic use N/A		
Anticipated Wildlife Utilization Based on Literature Review (List of species that are representative of the assessment area and reasonably expected to be found) Wading birds, herpetofauna			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area) Potential, but unlikely occasional use by wading birds such as white ibis (SSC), wood stork (E), little blue heron (SSC), snowy egret (SSC) and tricolor heron (SSC).		
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): None observed					
Additional relevant factors:					
Assessment conducted by: M. Arrants, K. Bullock			Assessment date(s): Dec-13		

PART II – Quantification of Assessment Area (impact or mitigation)
(See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name OUC Pershing to Stanton	Application Number	Assessment Area Name or Number Wetlands D, E, G, H, I, J, K, O - Wet Prairie
Impact or Mitigation Existing Condition	Assessment conducted by: M. Arrants, K. Bullock	Assessment date: Dec-13

Scoring Guidance	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water assessed	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions	Condition is insufficient to provide wetland/surface water functions

.500(6)(a) Location and Landscape Support	w/o pres or current	with	Location and landscape support variable is reduced due to location of wet prairies within surrounding cleared transmission line ROW. Individual parameter scores: a) Support to wildlife listed in Part 1 by outside habitats = 6, slightly reduced due to location within cleared transmission line ROW; b) Invasive exotic species = 6, some coverage; c) Wildlife access to and from outside = 6, decreased due to limitations imposed by surrounding developed areas; d) functions that benefit fish & wildlife downstream-distance or barriers = 6, moderate benefit, limited connections to downstream areas; e) Impacts to wildlife listed in Part 1 by outside land uses = 6, reduced due to surrounding development and clearing of native habitat; f) Hydrologically connected areas downstream of assessment area = 6, moderate benefit; g) Dependency of downstream areas on assessment area = 6, moderate benefit to downstream areas.
	6		
.500(6)(b)Water Environment (n/a for uplands)	w/o pres or current	with	The water environment score is reduced due to proximity of development, cleared landscape, and marginal hydrology. Individual parameter scores: a) water levels and flows = 6, reduced hydroperiod compared to typical assessment area type; b) water level indicators = 6, less than typical for assessment area type; c) soil moisture = 6, somewhat drier than expected; d) soil erosion or deposition = 6, some erosion from roadways, maintenance, adjacent landuses; e) evidence of fire history = N/A; f) vegetation community zonation = 6, moderate upland encroachment evident; g) hydrologic stress on vegetation = 6, upland and transitional species prevalent; h) use by animal species with specific hydrological requirements = 6, due to surrounding altered landscape/changed hydrology; i) vegetative species tolerant of and associated with water quality degradation = 7, minimal; j) direct observation of water quality = N/A, no water present; K) existing water quality data = N/A; l) water depth wave, wave energy, currents and light penetration = N/A.
	6		
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community	w/o pres or current	with	The community structure variable is somewhat reduced due to presence of exotic/nuisance species, mowing, and right-of-way maintenance. Individual parameter scores: a) plant community species in the canopy, shrub, or ground stratum = 6, maintenance typically removes shrub/canopy stratum, non-desirable wetland species prevalent; b) invasive exotics or other invasive plant species = 7, some coverage of exotic/nuisance species; c) regeneration and recruitment = 6, recruitment impacted by ROW maintenance and diminished hydroperiod; d) age & size distribution = 6, typical of wet prairie, impacted due to maintenance; e) density and quality of coarse woody debris, snag, den, and cavity = N/A; f) plant condition = 7, slightly reduced due to maintenance; g) land management practices = 6, due to alteration of community structure by routine maintenance; h) topographic features = 6, somewhat altered topography due to landclearing, development; i) siltation or algal growth in submerged aquatic plant communities = N/A
	7		

Score = sum of above scores/30 (if uplands, divide by 20)		
current	with	
or w/o pres		
0.63		

If preservation as mitigation,
Preservation adjustment factor =
Adjusted mitigation delta =

For impact assessment areas
FL = delta x acres =

Delta = [with-current]
0.63

If mitigation
Time lag (t-factor) =
Risk factor =

For mitigation assessment areas
RFG = delta/(t-factor x risk) =