June 11, 2021

CindyMulkey, Program Administrator
Office of Siting Coordination
Department of Environmental Protection
2600 Blair Stone Road, MS 5500
Tallahassee, Florida 32399-2400

Re: OUC St. Cloud East – Magnolia Ranch North 230 kV Transmission Line Project
Application for Certification under Transmission Line Siting Act

Dear Ms. Mulkey:

Pursuant to the Florida Electric Transmission Line Siting Act (TLSA), Sections 403.52 et seq., Florida Statutes (F.S.), the Orlando Utilities Commission (OUC) is pleased to submit to the Department of Environmental Protection (Department) its application for certificationof the proposed St. Cloud East-Magnolia Ranch North 230 kV Transmission Line Project (Project). The Project involves the construction, operation and maintenance of a 230 kV electric transmission line that will traverse portions of Orange County, Osceola County, and the City of Orlando. OUC's application fee (OUC Check No. 502953) in the amount of $118,780 was mailed to the Department on June 10, 2021 pursuant to Section 403.5365(1), F.S.

OUC's application presents the information required under the TLSA, in accordance with the Department's "Application Instruction Guide: Electrical Transmission Lines (TLSA)" dated September 28, 2009. Today OUC is providing copies of its TLSA application to the other agencies identified in Section 403.526(2), F.S., pursuant to Section 403.5251(1)(a), F.S., and as shown in the attached distribution list. For your convenience, OUC has prepared an Executive Summary (attached), which highlights the key features of OUC's Project and application.

OUC looks forward to working with the Department and all affected agencies in the TLSA certification process. Ifyou have any questions regarding the Project, please call me at (407) 434-4123 or via email at CEasterling@ouc.com.

Sincerely,

Charles Easterling Digitally signed by Charles Easterling
Date: 2021.06.11 12:15:53 -04'00'

Charles Easterling

ORLANDO UTILITIES COMMISSION

Director, Transmission Engineering, Construction, & Maintenance

Attachments: Distribution List
Executive Summary

OUC St. Cloud East - Magnolia Ranch North 230-kV Transmission Line Project
Distribution List

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Florida Department of Environmental Protection, Siting Coordination Office 2600 Blair Stone Road, MS 5500 Tallahassee, FL 32399-2400 Telephone: (850) 717-9113 Fax: (850) 717-9001 Attention: Ann Seiler – ann.seiler@floridadep.gov **1 paper copy and 1 electronic copy**	**Florida Department of Environmental Protection, Office of General Counsel** 3900 Commonwealth Boulevard. MS 35 Tallahassee, Florida 32399-3000 Attention: Michael Weiss, Esq. Michael.weiss@floridadep.gov **1 paper copy and 1 electronic copy**
Florida Public Service Commission Office of General Counsel 2450 Shumard Oak Boulevard Tallahassee, FL 32399-0850 Telephone: (850) 413-6199 Attention: Lee Eng Tan, Esq. LTan@psc.state.fl.us **Electronic copy**	**Florida Department of Economic Opportunity, Office of General Counsel** 107 East Madison Street Caldwell Bldg., MSC 110 Tallahassee, FL 32399-4128 Telephone: (850) 245-7150 Attention: Valerie Wright, Esq. Valerie.Wright@deo.myflorida.com Scott.Rogers@deo.myflorida.com **Electronic copy**
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OUC St. Cloud East - Magnolia Ranch North 230-kV Transmission Line Project
Distribution List

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EXECUTIVE SUMMARY

ORLANDO UTILITIES COMMISSION
ST. CLOUD EAST – MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE
APPLICATION FOR CERTIFICATION UNDER TRANSMISSION LINE SITING ACT

Orlando Utilities Commission (OUC) plans to construct, operate, and maintain a new 230 kilovolt (kV) electrical transmission line that will connect the existing St. Cloud East Substation in Osceola County with the existing Magnolia Ranch North Substation in Orange County. This transmission line is needed to ensure the reliability of the electrical grid in the Orlando/ St. Cloud region. Accordingly, OUC is filing an application (Application) for approval of the proposed St. Cloud East – Magnolia Ranch North 230-kV Transmission Line Project (Project) with the Florida Department of Environmental Protection (FDEP) pursuant to the Florida Electric Transmission Line Siting Act (TLSA), Sections 403.52 et seq., Florida Statutes (F.S.).

On June 30, 2020, the Florida Public Service Commission (FPSC) issued a Final Order granting OUC's petition for a determination of need pursuant to Section 403.537, F.S. In its Final Order, the FPSC found that: (a) there is a need for the Project, taking into account the need for electric system reliability and integrity, as well as the need for abundant, low-cost electrical energy; and (b) the St. Cloud East and Magnolia Ranch North substations are appropriate starting and ending points for the proposed transmission line.

Given the need for the Project, OUC assembled a multidisciplinary team of experts to assist with the selection of the proposed corridor for the new transmission line. OUC solicited comments and advice from 46 representatives of local, state, and federal agencies, including Orange County, Osceola County, and the City of Orlando. OUC conducted a careful evaluation of potential routes in a study area that encompassed approximately 168 square miles in Orange and Osceola counties and identified three primary options for the proposed route. OUC then mailed informational letters to property owners located within 100 feet of the proposed routes and invited them to attend an open house to discuss the proposed Project. Approximately 985 invitations were mailed, and two open house sessions were conducted. Based on the information OUC obtained during its study, including the comments OUC received from the public, the regulatory agencies, and other stakeholders, OUC selected the corridor that is described in its Application.

The proposed transmission line will be approximately 21 miles long. The width of the transmission line corridor described in the Application ranges from 150 feet (ft) to approximately 4,500 ft, which allows flexibility to avoid sensitive areas when OUC selects the final alignment of the right-of-way (ROW). The maximum width of the new ROW will only be up to 100 ft.

The proposed corridor is designed to minimize the Project's impacts on the public and the environment. Approximately 38% of the Project is located within OUC's existing transmission line ROWs and the remainder is co-located with existing and proposed public and private roadways and canals, including Wewahootee Road, the C-32C Canal/Sungrove Lane, proposed Sunbridge Parkway, proposed Cyrils Bypass Road, and proposed Northeast Connector Expressway. The clearing and construction needed for the Project will be minimized through co-location with existing transmission lines and roadways.

The proposed transmission line will be supported by single pole structures constructed of spun concrete or tubular steel with above-ground heights of approximately 100 ft to 140 ft and span lengths ranging from 350 ft to 1,000 ft, depending upon the location of the structure and site-specific conditions. Approximately 0.6 miles of the transmission line will be installed underground to avoid potential conflicts with the planned development at the intersection of the proposed Cyrils Bypass Road and Northeast Connector Expressway. Where needed, unpaved access roads and structure pads will be built to provide for the construction and maintenance of the transmission line. In locations where the proposed transmission line will be co-located with an existing transmission line, double-circuit structures will be used to support both lines.

The final design of the Project will be prepared after the Project is certified under the TLSA. Detailed design information will be provided to the FDEP and other regulatory agencies prior to construction in post-certification submittals, pursuant to the conditions of certification and FDEP Rule 62-17.191, Florida Administrative Code (F.A.C.). The post-certification submittals will contain all of the information normally provided in an application for an Environmental Resource Permit (ERP), including detailed information concerning the dredge and fill impacts associated with the Project, the management of surface waters, and wetland mitigation needed to compensate for the Project's impacts. Based on the preliminary conceptual layout provided in the Application, OUC estimates there will be approximately 13.12 acres of wetland fill and 24.90 acres of wetland canopy clearing, resulting in approximately 17.18 credits of wetland functional loss. It is anticipated that all unavoidable wetland impacts will be addressed by purchasing mitigation credits from the TM Econ Mitigation Bank. OUC also will need to obtain a permit from the U.S. Army Corps of Engineers pursuant to Section 404 of the Clean Water Act prior to commencing construction.

The construction, operation, and maintenance of the Project is not expected to cause significant impacts to vegetation, wildlife, or aquatic life, including threatened or endangered species. The proposed corridor does not cross any federally designated critical habitat areas for any listed species. Pre-clearing surveys for gopher tortoises and other listed species will be conducted before the commencement of construction. If any gopher tortoise burrows are located within the Project's ROW, OUC will provide a post-certification submittal with the information normally required in an application for a permit to excavate gopher tortoise burrows and relocate captured individuals to a recipient site in accordance with Florida Fish and Wildlife Conservation Commission regulations.

The construction, operation, and maintenance of the Project is expected to have only minor impacts on the public. The primary inconvenience experienced by people living or working near the ROW will be short-term noise, access restrictions, and potential temporary traffic congestion from construction equipment and activities. No significant long-term impacts are expected.

The construction, operation, and maintenance of the Project will be performed in compliance with all applicable local, state, and federal laws. The Project will comply with the applicable provisions of the comprehensive plans, zoning codes, and land use regulations adopted by Orange County, Osceola County, and the City of Orlando. The Project will comply with the standards in Chapter 62-814, F.A.C., for electric and magnetic fields. OUC is not aware of any variance, exception, or exemption from any law that will be needed for the Project.

OUC plans to commence construction on the Project in 2023 and commence operations in 2025.

OUC ST. CLOUD EAST – MAGNOLIA RANCH NORTH

230-KV TRANSMISSION LINE CERTIFICATION APPLICATION

OUC The Reliable One

June 2021

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ACRONYMS

AISC	American Institute of Steel Construction
ASCE	American Society of Civil Engineers
AM	amplitude-modulated
amp(s)	ampere(s)
BMP	best management practice
BPA	Bonneville Power Administration
CRAS	cultural resource assessment survey
dB	decibel
DHR	Florida Department of State, Division of Historical Resources
EM	Electromagnetic
EMF	Electromagnetic field
EPA	US Environmental Protection Agency
ERP	environmental resource permit
F.A.C.	Florida Administrative Code
F.S.	Florida Statutes
FAA	Federal Aviation Administration
FDACS	Florida Department of Agriculture and Consumer Services
FDEP	Florida Department of Environmental Protection
FDOT	Florida Department of Transportation
FWC	Florida Fish and Wildlife Conservation Commission
FLUCFCS	Florida Land Use, Cover and Forms Classification System
FMSF	Florida Master Site File
FNAI	Florida Natural Areas Inventory
FPSC	Florida Public Service Commission
FRCC	Florida Reliability Coordinating Council, Inc.
ft	foot
FM	Frequency-modulated
GIS	geographic information systems
HDD	horizontal directional drill
kV	kilovolt
MCR	maximum current rating
MW	megawatt
NESC	National Electrical Safety Code
NRHP	National Register of Historic Places
OHGW	Overhead Ground Wire
OSHA	Occupational Safety and Health Administration
OUC	Orlando Utilities Commission
ROW	right-of-way
SFWMD	South Florida Water Management District
SOFWEA	Split Oak Forest Wildlife and Environmental Area
SCE to MRN	St. Cloud East to Magnolia Ranch North
SJRWMD	St. Johns River Water Management District
SR	State Road
TIITF	Board of Trustees of the Internal Improvement Trust Fund

TLSA	Florida Transmission Line Siting Act
US	US Highway
USFWS	US Fish and Wildlife Service
USGS	US Geological Survey
VHF	very-high frequency

1.0 PROJECT OVERVIEW

1.1 Project Introduction

Orlando Utilities Commission (OUC) proposes to construct, operate, and maintain a new 230-kilovolt (kV) transmission line that will extend from OUC's existing St. Cloud East (SCE) Substation in unincorporated Osceola County to the existing OUC Magnolia Ranch North (MRN) Substation in unincorporated Orange County (Figure 1-1). The SCE to MRN transmission line (Project) is needed to enhance OUC's electrical transmission line system in the Orlando/St. Cloud region. The proposed transmission line will extend approximately 21 miles while traversing two counties and one municipality. The proposed corridor for the Project will allow the new transmission line to be located adjacent to or within the right-of-way (ROW) of portions of the existing Magnolia Ranch to Stanton transmission line, the existing St. Cloud East to St. Cloud North transmission line, and the existing and planned roadways in the area (Wewahootee Road, Sunbridge Parkway, Cyrils Bypass Road, and Northeast Connector Expressway) (Figure 1-2). Approximately 38% of the Project is located within OUC's existing transmission line ROWs and the remainder is co-located along existing and proposed public and private roadways and canals, including Wewahootee Road, the C-32C Canal/Sungrove Lane, proposed Sunbridge Parkway, proposed Cyrils Bypass Road, and proposed Northeast Connector Expressway.

OUC is seeking approval (certification) of the Project under the Florida Electric Transmission Line Siting Act (TLSA), Sections 403.52 through 403.539, Florida Statutes (F.S.). This application (Application) for certification of the Project is being filed with the Florida Department of Environmental Protection (FDEP) in compliance with the requirements in the TLSA and the FDEP rules in Chapter 62-17, Florida Administrative Code (F.A.C.). The format and content of this Application follow the guidelines in the FDEP *"Application Instruction Guide: Electrical Power Plant Sites and Associated Facilities; Electrical Transmission Lines"* (Guide) dated September 1, 2009.

This TLSA Application provides information concerning the Project, the corridor proposed for certification, and the impacts associated with the construction, operation, and maintenance of the proposed transmission line. Chapter 1 of the Application discusses the state's determination of need for the Project, provides information about the applicant, and provides an overview of the Project that OUC wishes to certify under the TLSA. Figure 1-2 identifies the study area that was evaluated for this Project, the OUC service area, and OUC's existing transmission lines and substations.

1.1.1 Need for the Project

Pursuant to Section 403.537, F.S., a petition for determination of need for the Project was submitted to the Florida Public Service Commission (FPSC) on May 1, 2020. The FPSC issued a Final Order on June 30, 2020 (FPSC 2020), which noted: (a) there is a need for the Project, taking into account the need for electric system reliability and integrity, as well as the need for abundant, low-cost electrical energy; and (b) OUC's existing Magnolia Ranch North Substation and OUC's existing St. Cloud East Substation are the appropriate starting and ending points for the proposed transmission line.

1.1.2 The Applicant

OUC is the second largest municipal utility in Florida and the 14th largest municipal utility in the country. OUC provides electric, water, chilled water and/or lighting services to 246,000 customers in Orlando, St. Cloud, and parts of unincorporated Orange and Osceola counties (OUC 2019a).

OUC's existing transmission system in Orlando consists of 31 substations interconnected through approximately 335 miles of 230 kV, 115 kV, and 69 kV lines. OUC is integrated into the Florida Reliability Coordinating Council, Inc. (FRCC) regional transmission grid through 21 230-kV and one 69-kV metered interconnections with other utilities. Additionally, OUC is responsible for planning, operating, and maintaining the City of St. Cloud's four substations, 55 miles of transmission lines, and three interconnections pursuant to an interlocal agreement (OUC 2019b) (Figure 1-3).

The following information addresses the applicant identification requirements in Section 1.3 of the FDEP Guide:

Applicant's Official Name:	Orlando Utilities Commission
Address of Applicant:	100 W. Anderson St., Orlando, FL 32801
Address of Official Headquarters:	100 W. Anderson St., Orlando, FL 32801
Business Entity (corporation, partnership, co-operative):	A municipally-owned public utility
Name and Title of Chief Executive Officer:	Clint Bullock, General Manager and Chief Executive Officer
Name, Address, and Phone Number of Official Representative responsible for obtaining certification:	Charles Easterling Orlando Utilities Commission 100 W. Anderson St. Orlando, FL 32801
Counties Crossed:	Portions of Osceola and Orange Counties
Incorporated Cities Crossed:	City of Orlando
Termination Points of Project:	St. Cloud East Substation and Magnolia Ranch North Substation
Intermediate Substations:	None
Voltage of Proposed Transmission Line:	230 kV
Transmission Line Type (AC or DC):	AC
Length of Transmission Line and Number of Circuits:	Approximately 21 miles single circuit

1.1.3 Maps

The maps and other figures in this Application comply with the format recommended in Sections 1.3.6 and 9.1 of the FDEP Guide.

1.2 Corridor Location and Layout

The Project will consist of a single-circuit 230-kV transmission line extending from the existing St. Cloud East Substation in unincorporated Osceola County, Florida, to the existing Magnolia Ranch North Substation in unincorporated Orange County, Florida (Figures 1-1, 1-2, and 1-4). The transmission line corridor to be certified under the TLSA varies in width from 150 feet (ft) to approximately 4,500 ft. However, the maximum anticipated width of the ROW for the proposed transmission line will be only 100 ft. The proposed corridor is co-located with existing and proposed linear facilities for approximately 98% of its length.

1.3 Transmission Line Design and Access Road Characteristics

The Project will be constructed using primarily single-pole self-supporting spun concrete or tubular steel structures constructed upon elevated structure pads. Figures 1-5 through 1-10 are typical cross

sections that depict the transmission line configurations OUC expects to use on the Project. Figure 1-12 identifies the locations along the proposed corridor that are depicted by the typical cross sections.

An approximately 0.6-mile segment of the transmission line will be installed underground using horizontal directional drilling (HDD) or open trench techniques to avoid potential conflicts with the planned development in the vicinity of the intersection of the proposed Cyrils Bypass Road and Northeast Connector Expressway [Figures 1-11 and 1-12(Segment 3)]. In addition, special structures and conductor configurations may be required at specific locations, such as the crossings of major roads, intersections, waterbodies, and underground entry/exit locations. Some structures may require guys and anchors where the transmission line turns at angles or crosses other major linear facilities.

The proposed conductor for the overhead portion of the Project will be a single conductor 1272 thousand-circular mil aluminum conductor steel supported trapezoidal wire (Pheasant ACSS/TW). The maximum current rating (MCR) is 2,253 amperes (amps). The MCR is the nominal value that would be expected to cause the conductor to reach its design temperature limit of 250 degrees Celsius. For the underground portion of the Project, a single circuit, 2 cables per phase, 230-kV 3,500 kcmil copper conductor is proposed.

The typical structures to be used for the Project will be single-pole 230-kV structures with one optical ground wire (OPGW). However, between the St. Cloud East Substation and Nova Road, typical structures will be single-pole double-circuit 230-/69-kV structures with one OPGW, because the proposed transmission line will be co-located with an existing 69kV transmission line in this area. The segments along the C-32C Canal, proposed Northeast Connector Expressway, proposed Cyrils Bypass Road, proposed Sunbridge Parkway, and Wewahootee Road will utilize single-pole single-circuit 230-kV structures with one OPGW. Within the existing OUC Magnolia Ranch to Stanton ROW, the open side of the existing double-circuit capable structures will be used to support the new 230-kV line.

The typical structure configurations, showing insulators, are depicted in Figures 1-13 through 1-20. The conductor profiles for the most typical structure configurations are shown in Figures 1-21 through 1-23. The conductors will be attached to the structure generally using braced post insulators.

The typical span lengths between structures will range from approximately 350 ft along the existing St. Cloud North to St. Cloud East ROW and approximately 600 ft to 1,000 ft along the remainder. The typical aboveground structure heights will range from approximately 100 ft to 140 ft, depending on the structure design used and site-specific conditions. The individual span lengths will be based on the topography of the specific route, the width of the ROW, and other transmission engineering design parameters.

Transmission line conductor vertical clearances will vary along the length of the transmission line. In all instances the transmission line will comply with the applicable requirements in the National Electrical Safety Code (NESC) (Institute of Electrical and Electronics Engineers, Incorporated, 2012 Edition) and

the safety standards adopted by the FPSC pursuant to Section 366.04(6), F.S. Figures 1-21 through 1-23 identify the typical conductor clearances for the Project. Additional clearance will be provided, if necessary, to comply with any applicable requirements of any regulatory agencies. For example, additional clearance will be provided, if needed, when crossing over any roads maintained by a city, county, or the Florida Department of Transportation (FDOT).

1.3.1 Access Roads and Structure Pads

Access roads and structure pads are required to provide efficient and safe ingress and egress to the transmission line structures for construction and long-term maintenance of the transmission line. Access roads are necessary for initial line construction and will remain in place for routine access and maintenance for the life of the transmission line. Where required, structure pads will be constructed adjacent to or integrated with the access roads to facilitate construction and maintenance of the new transmission line.

Unpaved access roads already have been built and are in place within the existing Magnolia Ranch-Stanton ROW and the St. Cloud East to St. Cloud North ROW. These roads will be utilized for the construction and maintenance of the Project. The plans for the proposed Sunbridge Parkway include the construction of a multi-use path (i.e., a trail for walking, jogging, biking, etc.) adjacent to the proposed highway. It is anticipated that the multi-use path will be built before construction commences on the Project. If this occurs, the multi-use path may be utilized for the construction and maintenance of the Project where the Project parallels the Sunbridge Parkway.

Where access roads do not exist or are inadequate for the Project, improved roads may be constructed. These roads will be unpaved, with a top elevation set a minimum of 12 inches above the expected seasonal high-water table and a top road width of approximately 16 ft. Where required, new transmission structure pads will be constructed adjacent to or integrated with the access road. The structure pads will have typical dimensions of 100 ft x 100 ft (0.23 acre). Figures 1-24 through 1-26 present views of typical structure pads. A cross section of a typical improved access road is provided in Figure 1-27.

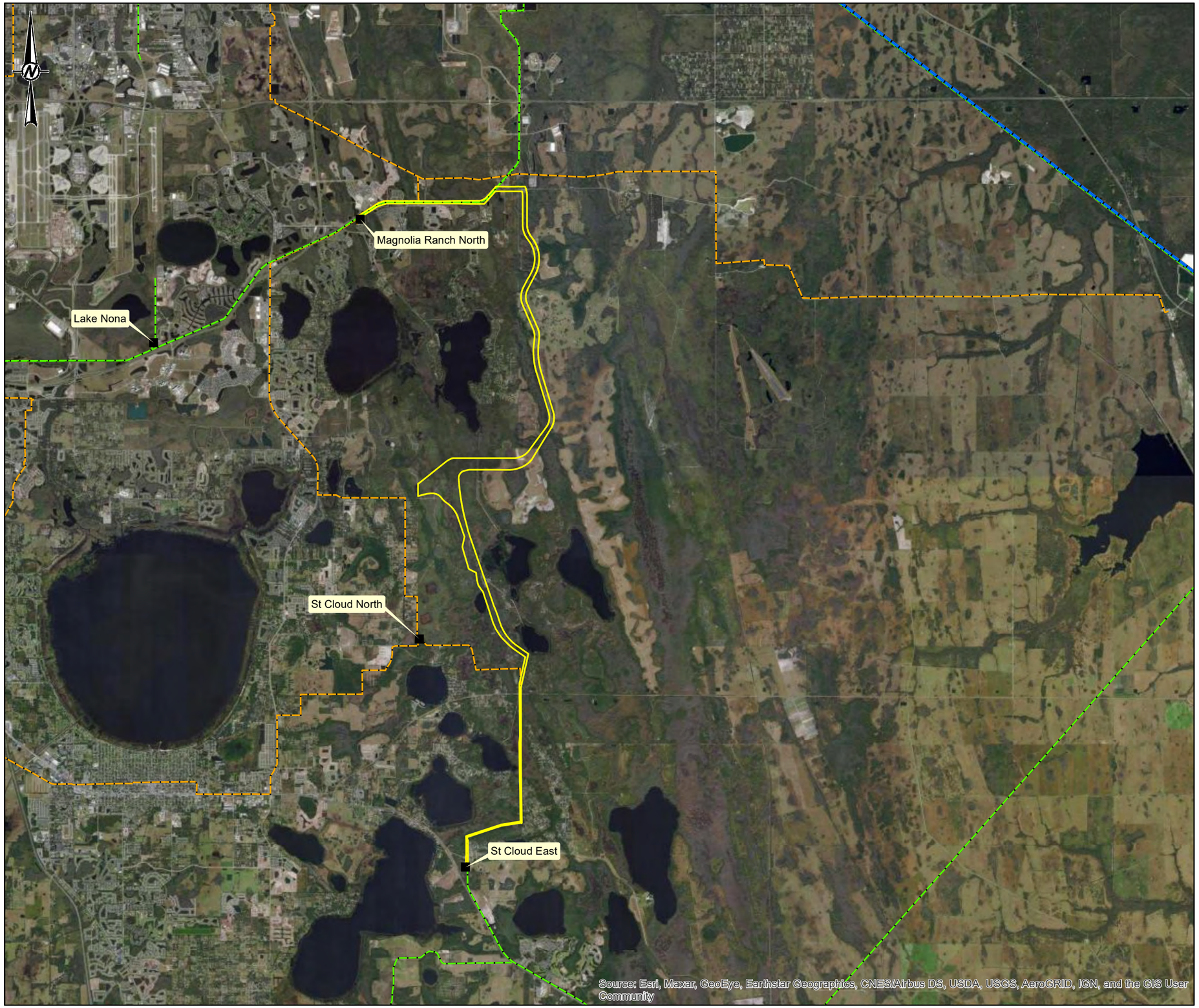
1.4 Cost Projections

The approximate costs and projections for the Project currently are based on comparable transmission lines of similar voltage elsewhere in the OUC system and other historical cost data. The actual costs for the Project will depend on the final location of the ROW within the corridor, the length of the transmission line, the configuration of the transmission structures, the number of transmission structures and pads, the conductors selected, the mitigation required, the easements and other property interests to be acquired in the ROW, and other site-specific factors.

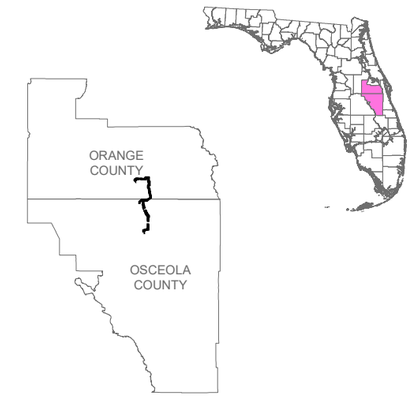
The estimated cost for the construction of the Project, including ROW acquisition, ROW clearing, access road construction, mitigation, and transmission line construction, is approximately $4.2 million per mile. Additional costs of approximately $1.4 million will be required for improvements at or around

the St. Cloud East Substation and approximately $5.7 million will be required for improvements at or around the Magnolia Ranch North Substation. The estimated total cost of the Project is approximately $94.5 million (2025 dollars).

Project Components	**Estimated Cost**
St. Cloud East to Magnolia Ranch North 230-kV Transmission Line	$87.4 million
St. Cloud East Substation	$1.4 million
Magnolia Ranch North Substation	$5.7 million
Total	$94.5 million



KEY MAP



LEGEND

- EXISTING SUBSTATIONS
- EXISTING 69 KV
- EXISTING 115 KV
- EXISTING 230 KV
- EXISTING 500 KV
- PROPOSED CORRIDOR

0 1 2 4
MILES

REFERENCE(S)
1. EXISTING TRANSMISSION, EXISTING SUBSTATIONS, OAK RIDGE NATIONAL LABORATORY, 2019.
2. PROPOSED CORRIDOR, OUC & GOLDER, 2020.

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
PROJECT LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C001	0	1-1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
1 in
0

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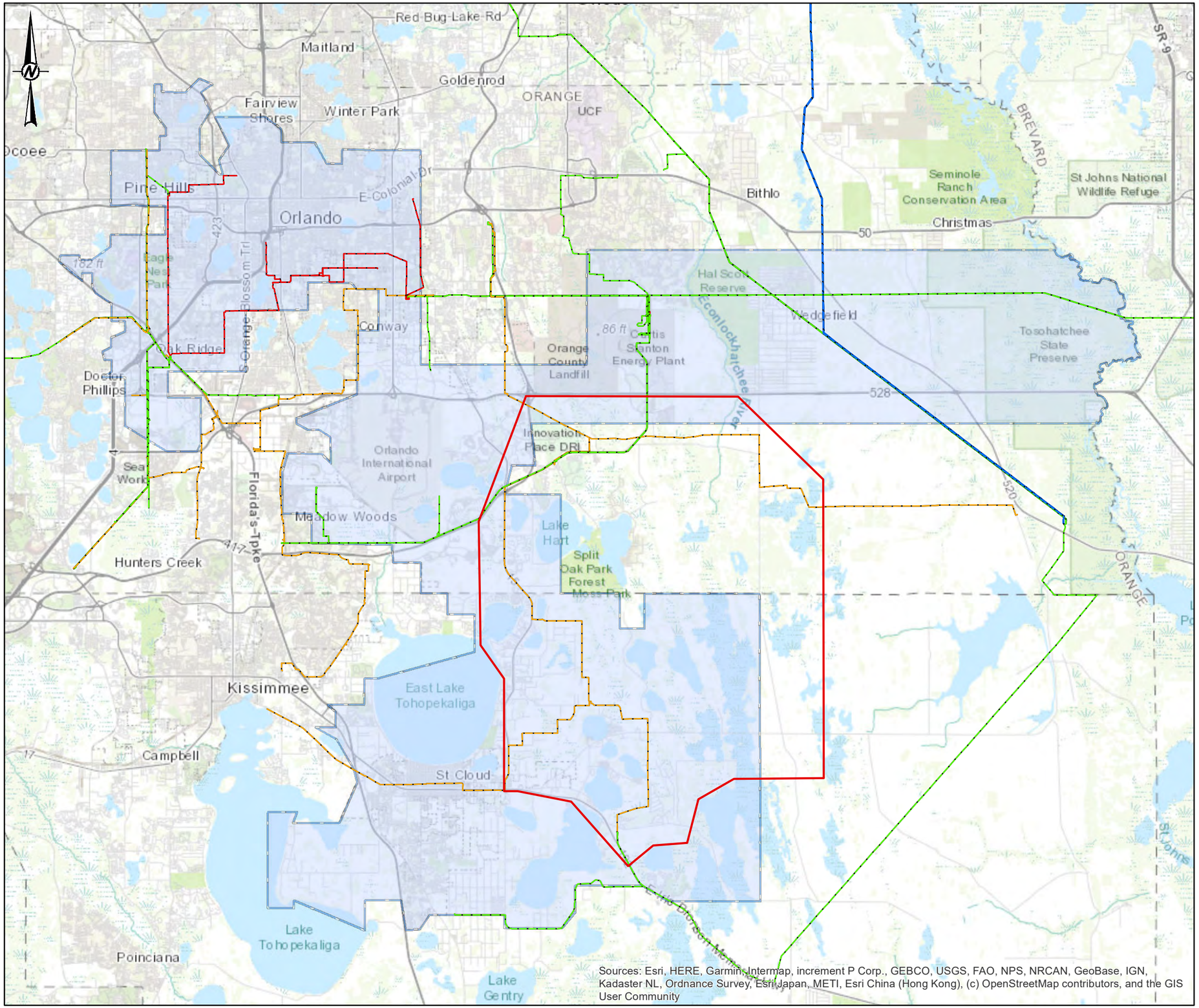
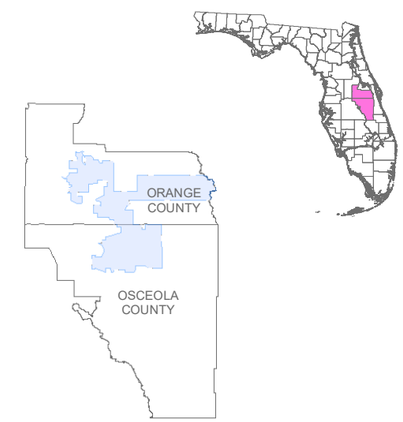


KEY MAP



LEGEND

- EXISTING OUC SUBSTATIONS
- EXISTING 69 KV
- EXISTING 115 KV
- EXISTING 230 KV
- EXISTING 500 KV
- OUC SERVICE AREA
- STUDY AREA
- PROPOSED CORRIDOR

0 1.75 3.5 7
MILES

REFERENCE(S)
1. EXISTING TRANSMISSION, EXISTING SUBSTATIONS, OAK RIDGE NATIONAL LABORATORY, 2019.
2. PROPOSED CORRIDOR, OUC & GOLDER, 2020.
3. STUDY AREA, BURNS & MCDONNELL, 2019.

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
STUDY AREA, SERVICE AREAS, AND EXISTING SUBSTATION LOCATIONS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2020-12-13
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C002	0	1-2

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C002_ServiceAreas.mxd

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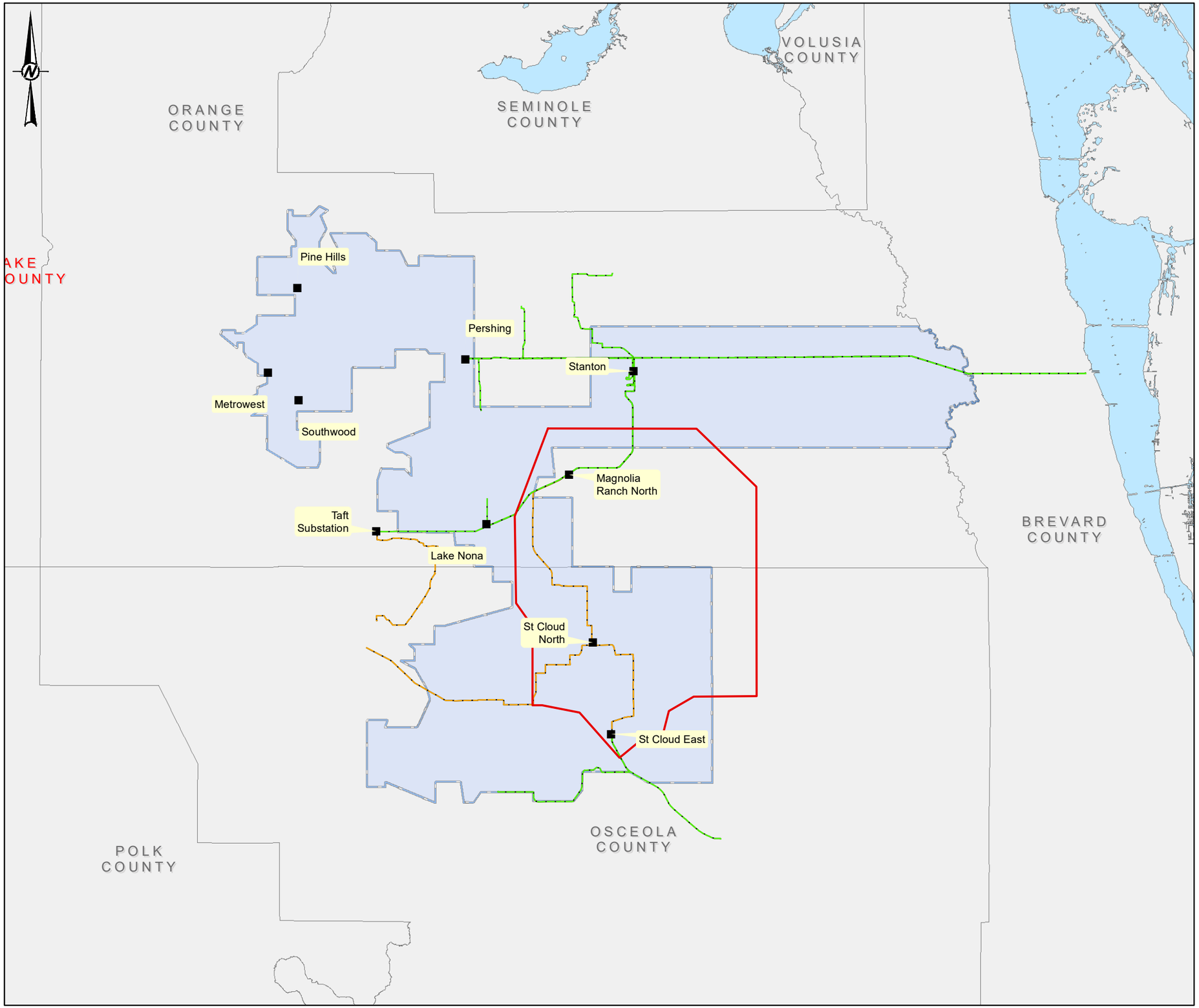

LEGEND

- EXISTING OUC SUBSTATIONS
- EXISTING 69 KV
- EXISTING 115 KV
- EXISTING 230 KV
- OUC SERVICE AREA
- STUDY AREA

0 2.5 5 10
MILES

REFERENCE(S)
1. EXISTING TRANSMISSION, EXISTING SUBSTATIONS, OAK RIDGE NATIONAL LABORATORY, 2019.
2. STUDY AREA, BURNS & MCDONNELL, 2019.

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
OUC TRANSMISSION AND SUBSTATION CONFIGURATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2020-12-13
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C004	0	1-3

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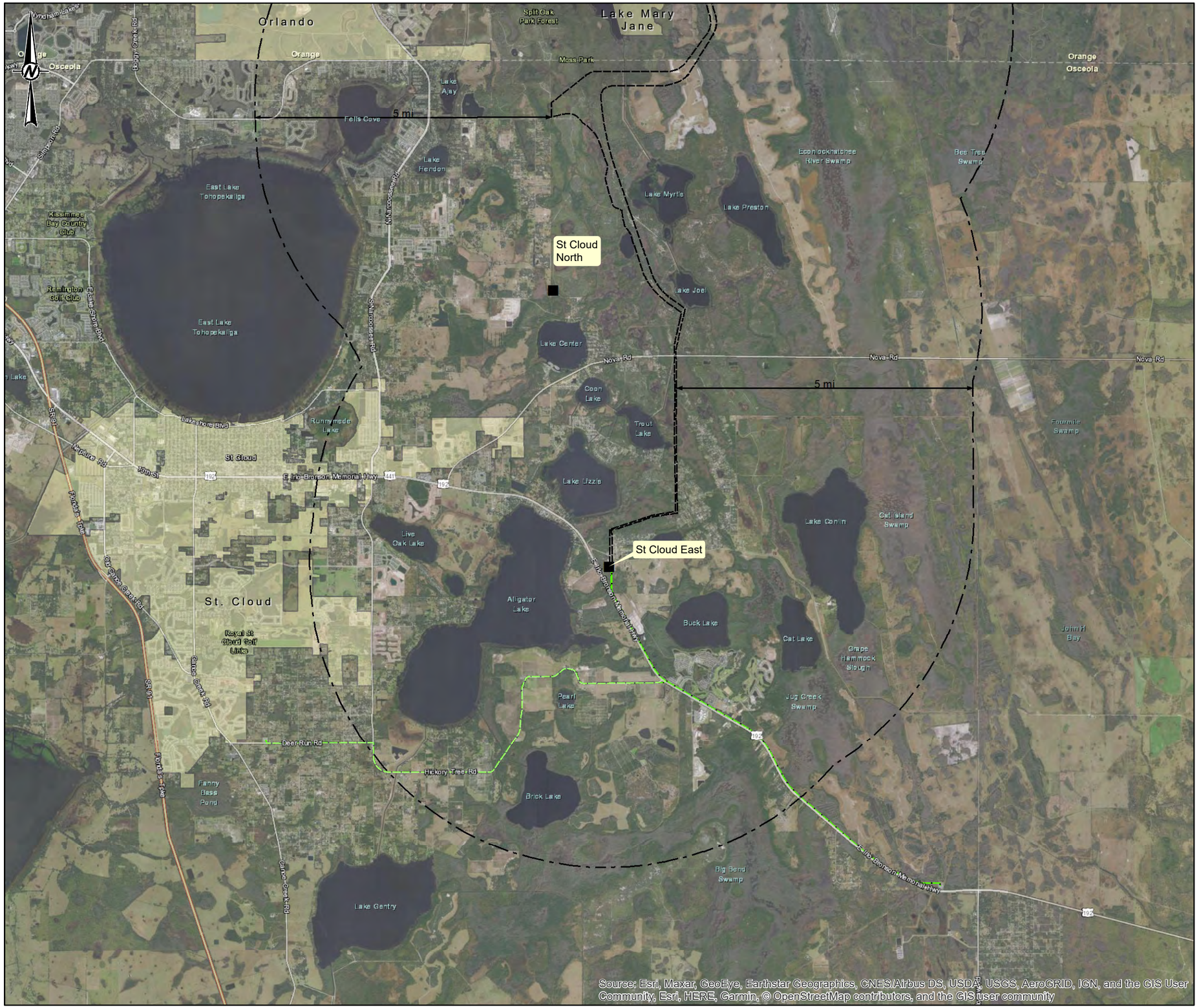
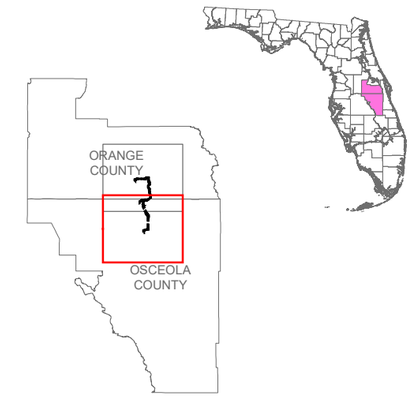


KEY MAP



LEGEND

- EXISTING OUC SUBSTATIONS
- PROPOSED CORRIDOR
- 5-MILE CORRIDOR BUFFER
- EXISTING 230 KV

0 0.825 1.65 3.3
MILES

REFERENCE(S)

1. EXISTING TRANSMISSION, EXISTING SUBSTATIONS, OAK RIDGE NATIONAL LABORATORY, 2019.
2. PROPOSED CORRIDOR, OUC & GOLDER, 2019.
3. CITY BOUNDARY, U.S. CENSUS BUREAU, 2019.

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR, LOCATION AND EXISTING TRANSMISSION LINES GREATER THAN 115-KV WITHIN 5 MILES

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C005	0	1-4

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\02_PRODUCTION\MXD\19115515_C005_CorridorLocation_5miles.mxd

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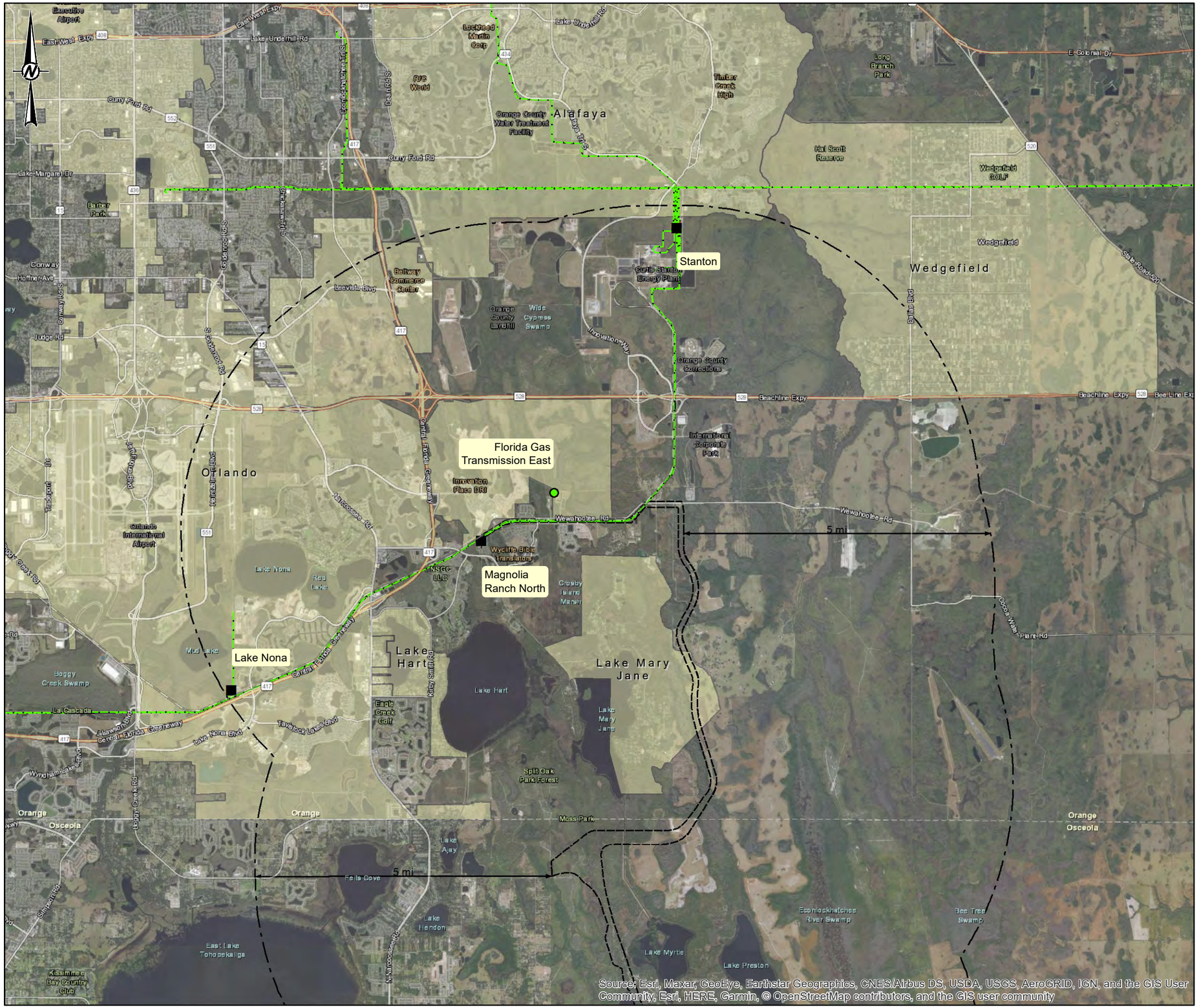

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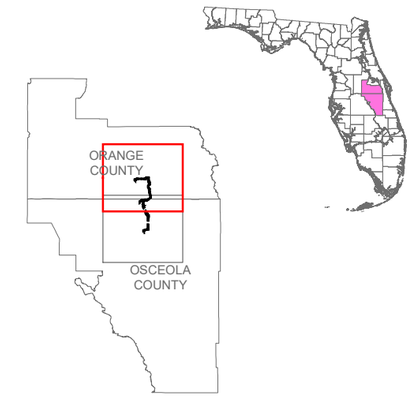

LEGEND

- EXISTING OUC SUBSTATIONS
- EXISING DUKE ENERGY SUBSTATIONS
- PROPOSED CORRIDOR
- 5-MILE CORRIDOR BUFFER
- EXISTING 115 KV
- EXISTING 230 KV

0 0.825 1.65 3.3
MILES

REFERENCE(S)
1. EXISTING TRANSMISSION, EXISTING SUBSTATIONS, OAK RIDGE NATIONAL LABORATORY, 2019.
2. PROPOSED CORRIDOR, OUC & GOLDER, 2019.
3. CITY BOUNDARY, U.S. CENSUS BUREAU, 2019.

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR, LOCATION AND EXISTING TRANSMISSION LINES GREATER THAN 115-KV WITHIN 5 MILES

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C005	0	1-4

PATH: G:\Projects\OUC\SlCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\02_PRODUCTION\MXD\19115515_C005_CorridorLocation_5miles.mxd

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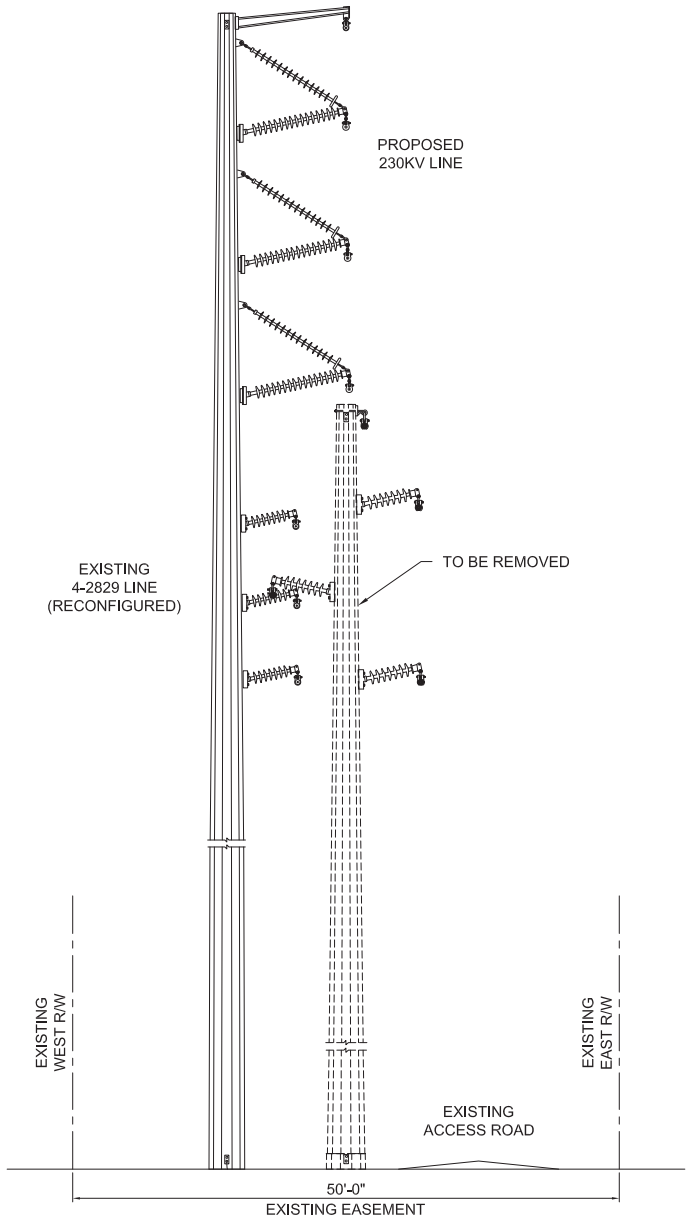
50' RIGHT-OF-WAY
EXISTING OUC 4-2829 LINE
LOOKING NORTH

NOT TO SCALE



NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.
2. STRUCTURES MAY BE SPACED AT DIFFERING INTERVALS LONGITUDINALLY ALONG THE RIGHT-OF-WAY.

no.	date	by	ckd	description
0	11/25/20	RWR	RWR	--

**PRELIMINARY-
NOT FOR CONSTRUCTION**

BURNS McDONNELL

date	detailed
11/25/20	RWR
designed	checked
RWR	RWR

OUC The Reliable One

ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230KV TRANSMISSION LINE
TYPICAL CROSS SECTION
50' RIGHT-OF-WAY

project 7-2934 | contract -

drawing **FIGURE 1-5** — rev. **0**

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file FIGURE 1-5.DWG

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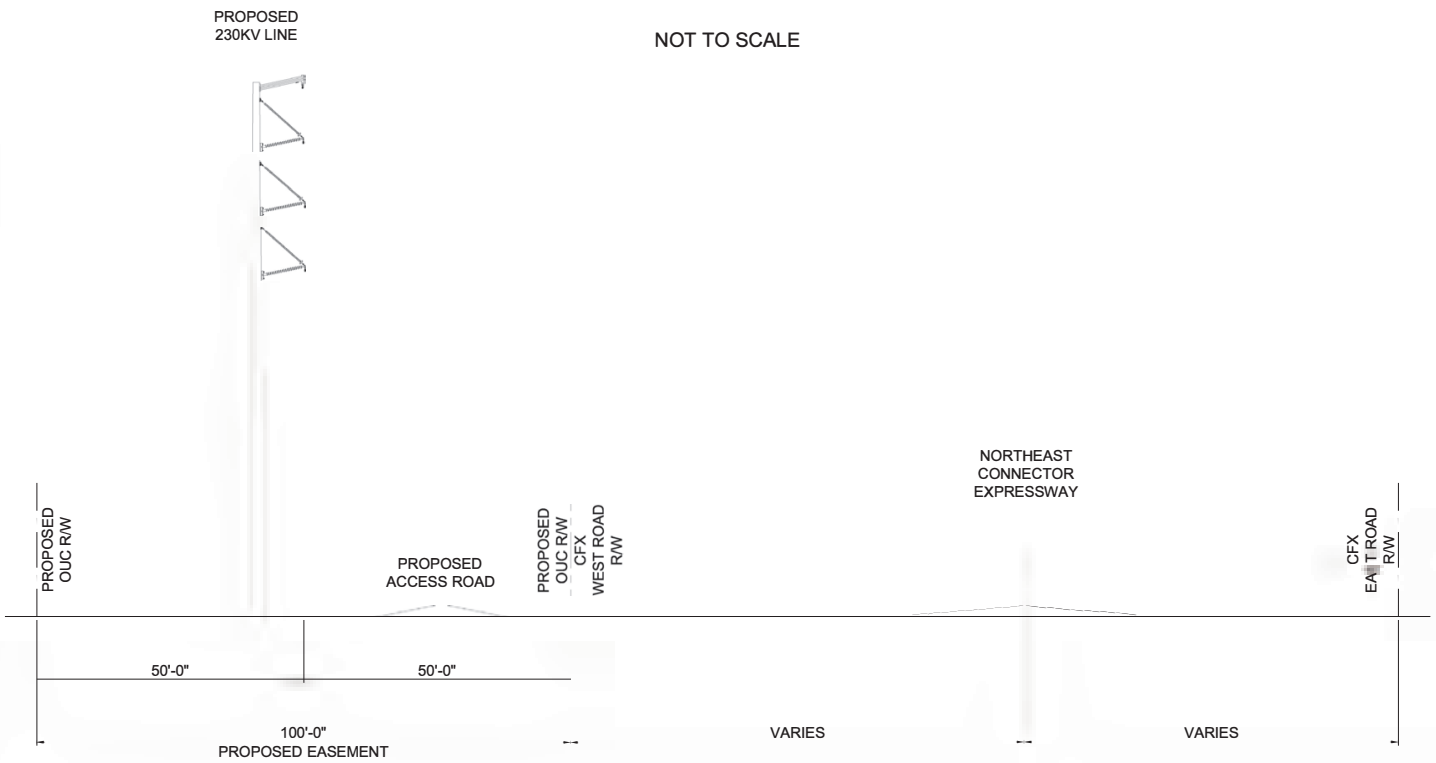
100' RIGHT-OF-WAY
WEST SIDE OF NORTHEAST CONNECTOR EXPRESSWAY LOOKING NORTH

NOT TO SCALE



NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.
2. STRUCTURES MAY BE SPACED AT DIFFERING INTERVALS LONGITUDINALLY ALONG THE RIGHT-OF-WAY.

no.	date	by	ckd	description
0	10/01/20	KW	RWR	–

PRELIMINARY-
NOT FOR CONSTRUCTION

BURNS McDONNELL

date	detailed
10/01/20	KW
designed	checked
RWR	RWR

OUC The Reliable One

ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230KV TRANSMISSION LINE
TYPICAL CROSS SECTION
100' RIGHT-OF-WAY

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drawing **FIGURE 1-6** – rev. **0**

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file FIGURE 1-6.DWG

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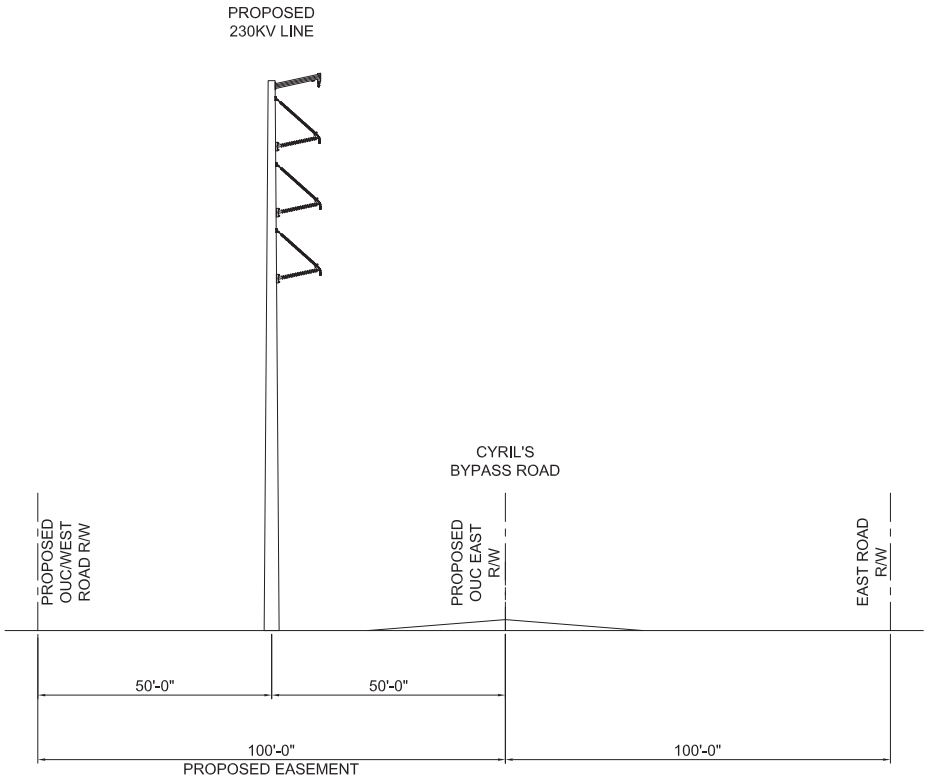
100' RIGHT-OF-WAY
WEST SIDE OF CYRIL'S BYPASS ROAD
LOOKING NORTH

NOT TO SCALE



NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.
2. STRUCTURES MAY BE SPACED AT DIFFERING INTERVALS LONGITUDINALLY ALONG THE RIGHT-OF-WAY.

no.	date	by	ckd	description
0	11/24/20	RWR	RWR	–

PRELIMINARY-
NOT FOR CONSTRUCTION

BURNS McDONNELL

date	detailed
11/24/20	RWR
designed	checked
RWR	RWR

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ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230KV TRANSMISSION LINE
TYPICAL CROSS SECTION
100' RIGHT-OF-WAY

project 7-2934 | contract -

drawing **FIGURE 1-7** – rev. **0**

sheet - of - sheets

file FIGURE 1-7.DWG

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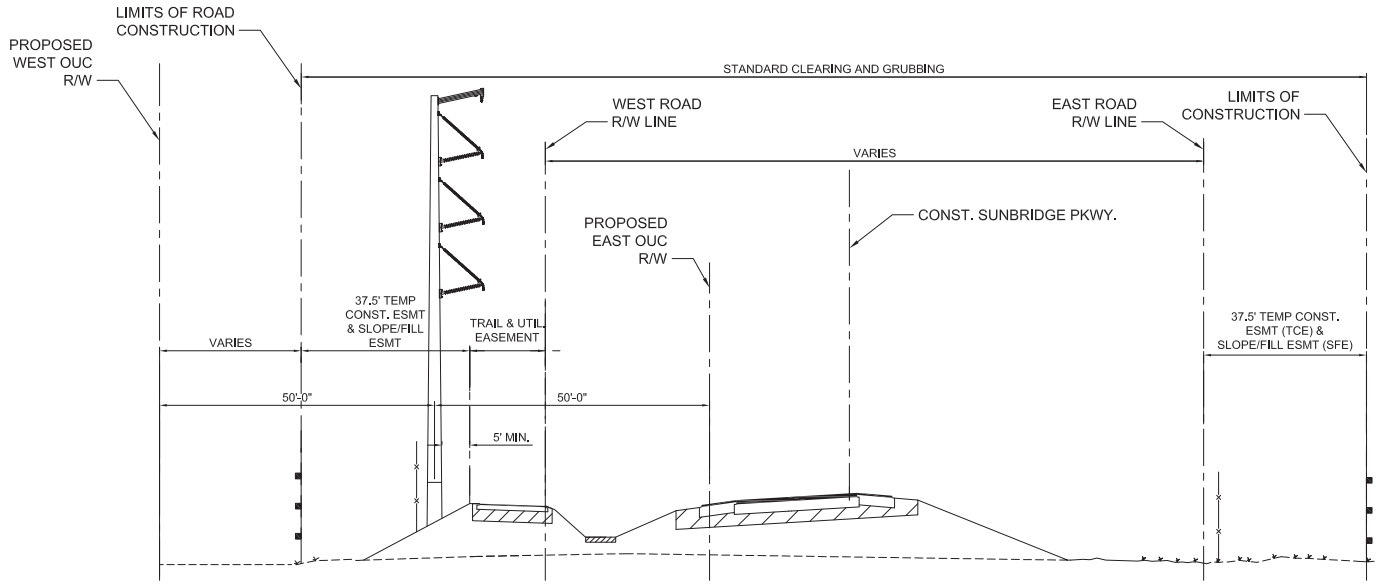
100' RIGHT-OF-WAY
WEST SIDE OF SUNBRIDGE PARKWAY
LOOKING NORTH

NOT TO SCALE



NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.
2. STRUCTURES MAY BE SPACED AT DIFFERING INTERVALS LONGITUDINALLY ALONG THE RIGHT-OF-WAY.

no.	date	by	ckd	description
0	11/24/20	RWR	RWR	--

PRELIMINARY-
NOT FOR CONSTRUCTION

BURNS McDONNELL

date	detailed
11/24/20	RWR
designed	checked
RWR	RWR

OUC The Reliable One

ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230KV TRANSMISSION LINE
TYPICAL CROSS SECTION - 100' RIGHT-OF-WAY
NO STRUCTURE ACCESS PAD

project 7-2934 | contract -

drawing **FIGURE 1-8A –** rev. **0**

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file FIGURE 1-8A.DWG

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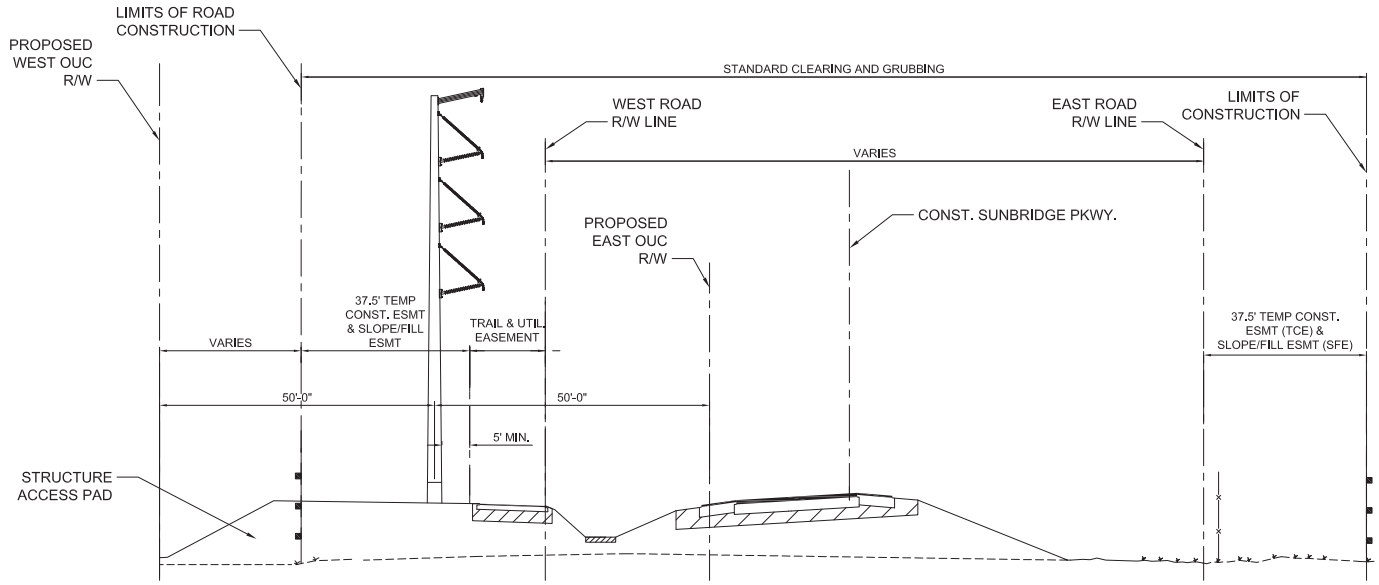
100' RIGHT-OF-WAY
WEST SIDE OF SUNBRIDGE PARKWAY
LOOKING NORTH

NOT TO SCALE



NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.
2. STRUCTURES MAY BE SPACED AT DIFFERING INTERVALS LONGITUDINALLY ALONG THE RIGHT-OF-WAY.

no.	date	by	ckd	description
0	11/24/20	RWR	RWR	--

PRELIMINARY-
NOT FOR CONSTRUCTION

BURNS McDONNELL

date	detailed
11/24/20	RWR
designed	checked
RWR	RWR

OUC The Reliable One

ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230KV TRANSMISSION LINE
TYPICAL CROSS SECTION - 100' RIGHT-OF-WAY
WITH STRUCTURE ACCESS PAD

project 7-2934 | contract -

drawing **FIGURE 1-8B –** rev. **0**

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file FIGURE 1-8B.DWG

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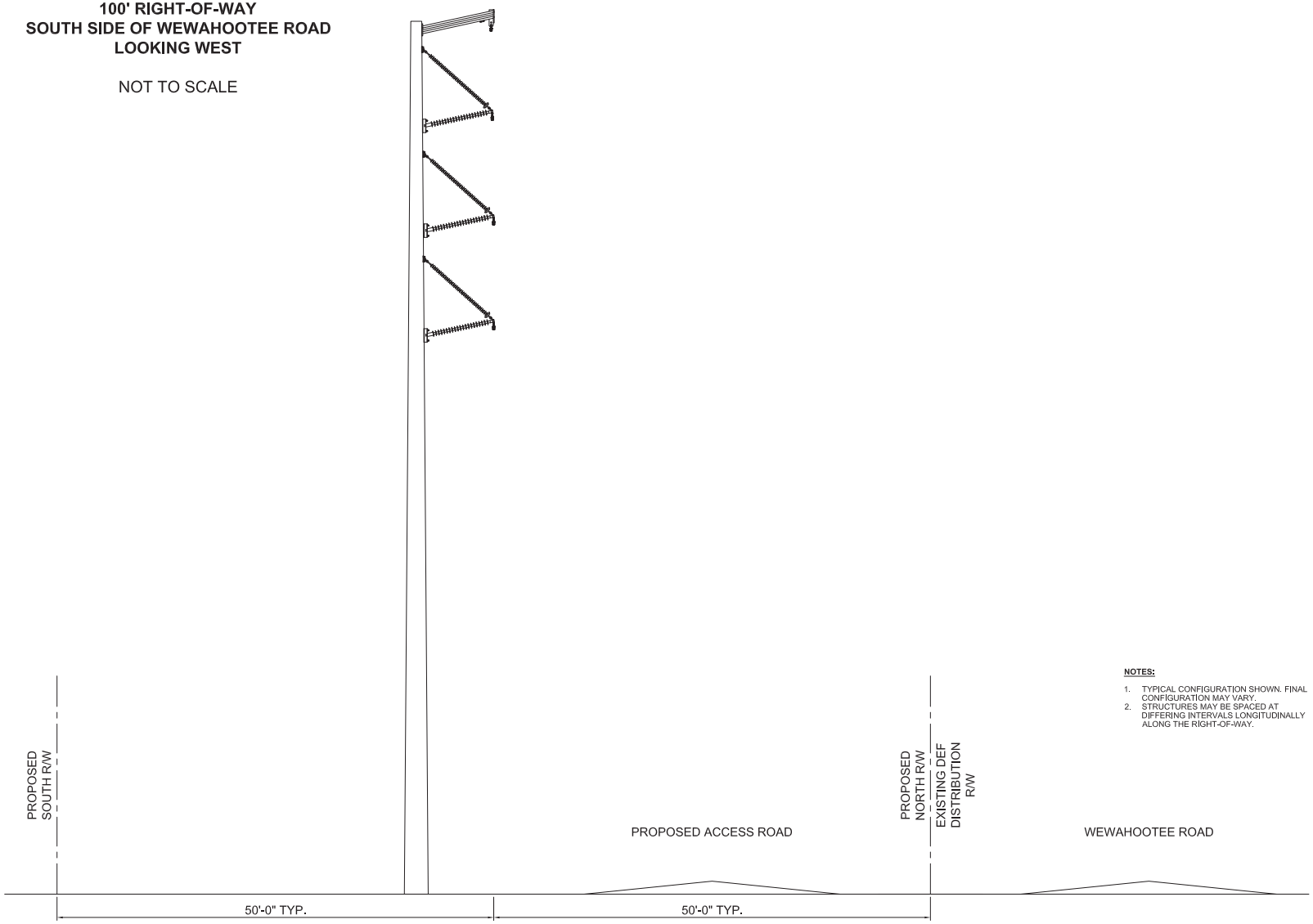
100' RIGHT-OF-WAY
SOUTH SIDE OF WEWAHOOTEE ROAD
LOOKING WEST

NOT TO SCALE



NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.
2. STRUCTURES MAY BE SPACED AT DIFFERING INTERVALS LONGITUDINALLY ALONG THE RIGHT-OF-WAY.

no.	date	by	ckd	description
0	11/24/20	KW	RWR	–

PRELIMINARY-
NOT FOR CONSTRUCTION

BURNS McDONNELL

date	detailed
11/24/20	KW
designed	checked
RWR	RWR

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ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230KV TRANSMISSION LINE
TYPICAL CROSS SECTION
100' RIGHT-OF-WAY

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drawing **FIGURE 1-9** – rev. **0**

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file FIGURE 1-9.DWG

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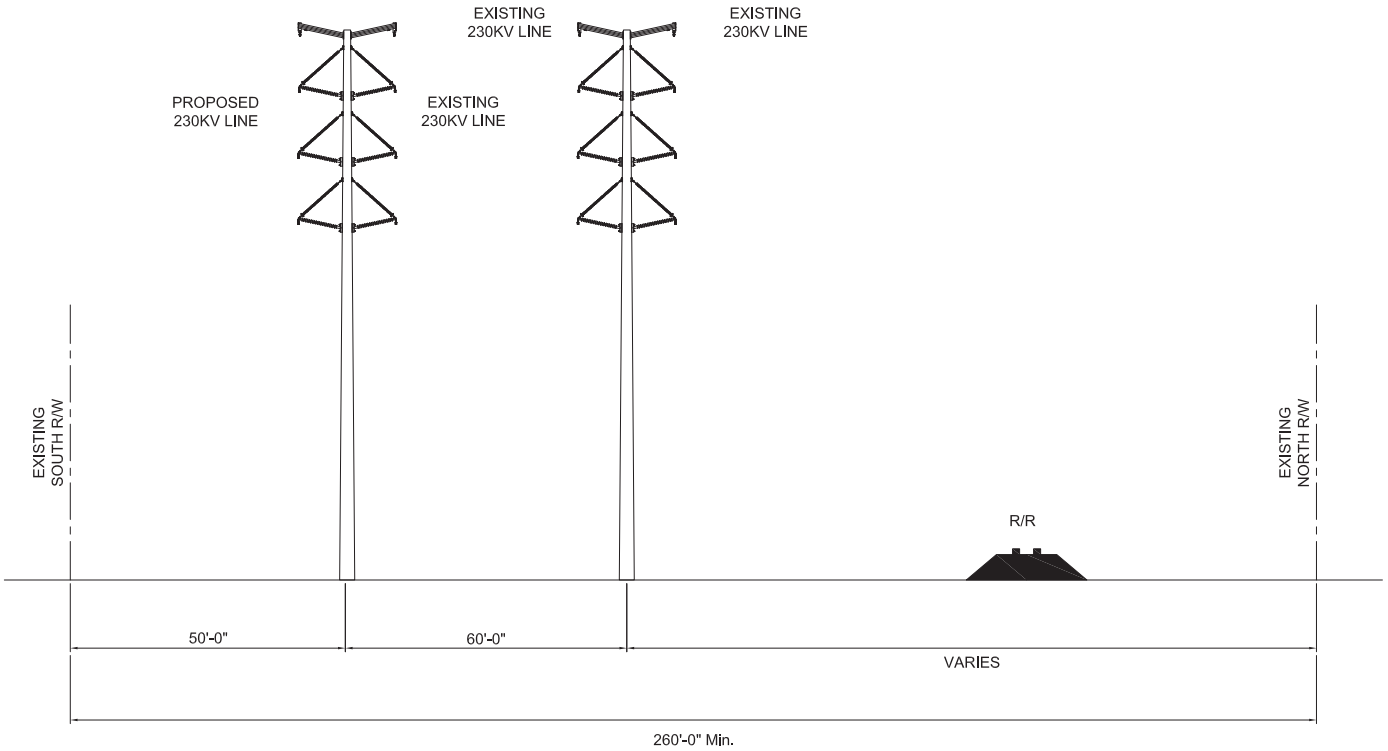
EXISTING OUC RIGHT-OF-WAY
MAGNOLIA RANCH - STANTON CORRIDOR
LOOKING WEST

NOT TO SCALE



NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.
2. STRUCTURES MAY BE SPACED AT DIFFERING INTERVALS LONGITUDINALLY ALONG THE RIGHT-OF-WAY.

no.	date	by	ckd	description
0	11/24/20	RWR	RWR	--

PRELIMINARY-
NOT FOR CONSTRUCTION

BURNS McDONNELL

date	detailed
11/24/20	KW
designed	checked
RWR	RWR

OUC The Reliable One

ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230KV TRANSMISSION LINE
TYPICAL CROSS SECTION
EXISTING RIGHT-OF-WAY

project 7-2934 | contract -

drawing **FIGURE 1-10 –** rev. **0**

sheet - of - sheets

file FIGURE 1-10.DWG

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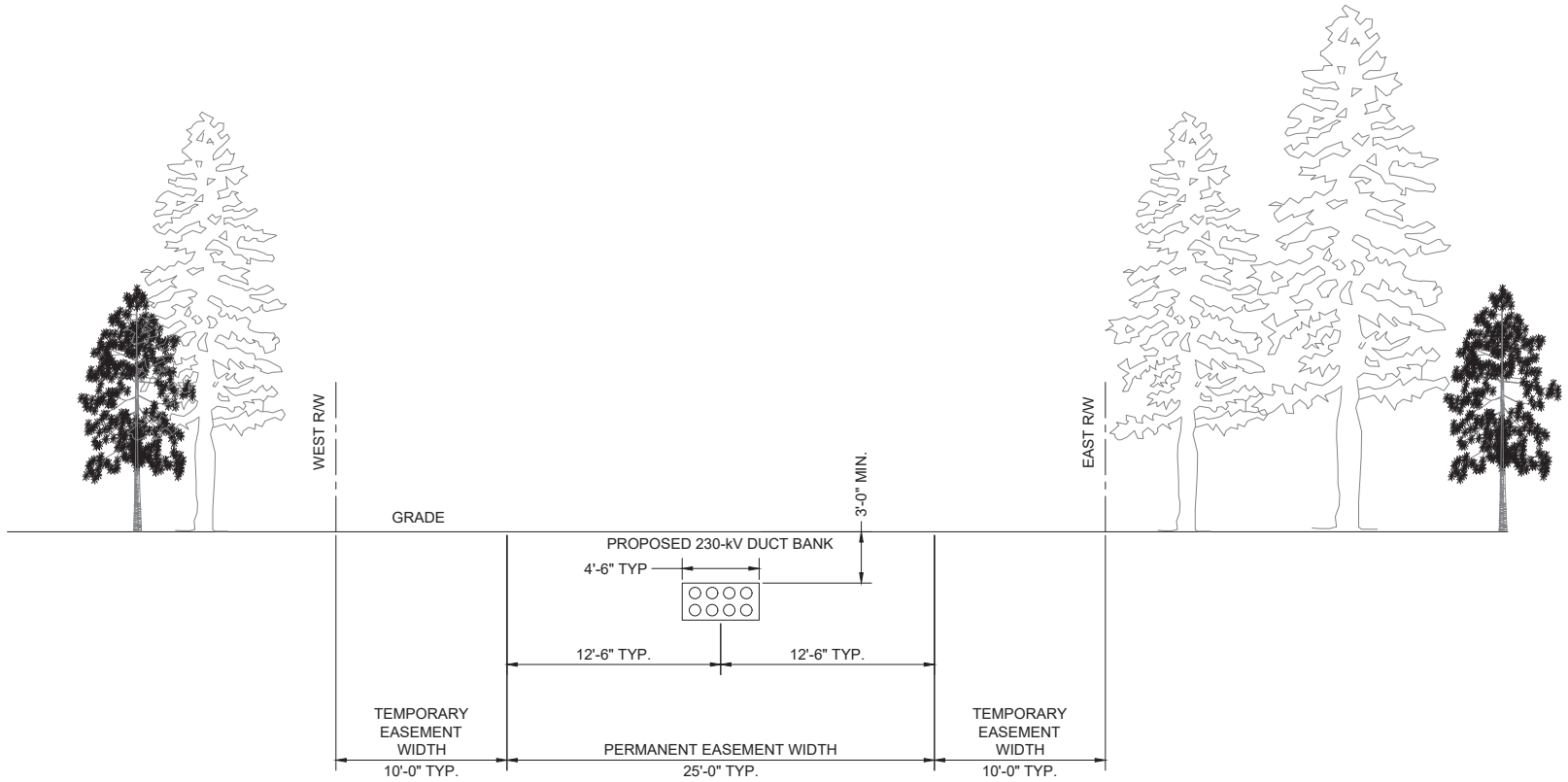

45' RIGHT-OF-WAY UG DUCT BANK CROSS SECTION
NTS

NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.

no.	date	by	ckd	description
0	3/10/20	BLZ	RWR	

PRELIMINARY-
NOT FOR CONSTRUCTION

BURNS McDONNELL

date	detailed
11/20/2020	ATG
designed	checked
GAC	KMR

OUC The Reliable One

230KV UG TRANSMISSION LINE
TYPICAL CROSS SECTION
45' RIGHT-OF-WAY

project 7-2934 | contract

drawing **FIGURE 1-11** | rev. **0**

sheet 01 of 06 sheets

file FIGURE 1-11.DWG

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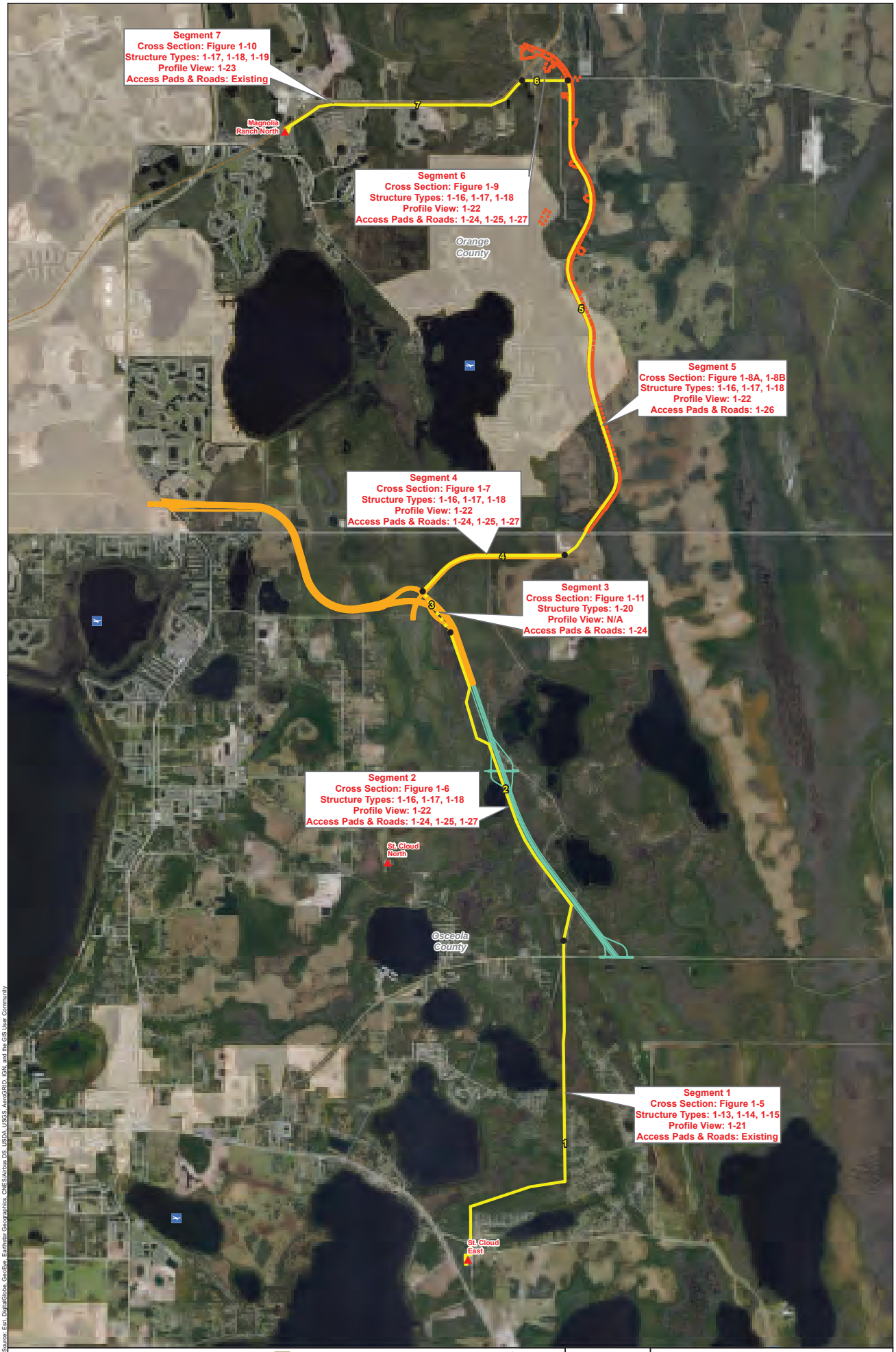

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Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Segment Endpoint
- Proposed Overhead Alignment
- Proposed Underground Alignment
- Sunbridge Parkway Alignment
- Extension to Nova Road
- Preferred Osceola Parkway Alignment
- Street
- Railroad
- Private Airstrip
- Municipal Boundary
- County Boundary
- Existing Substation

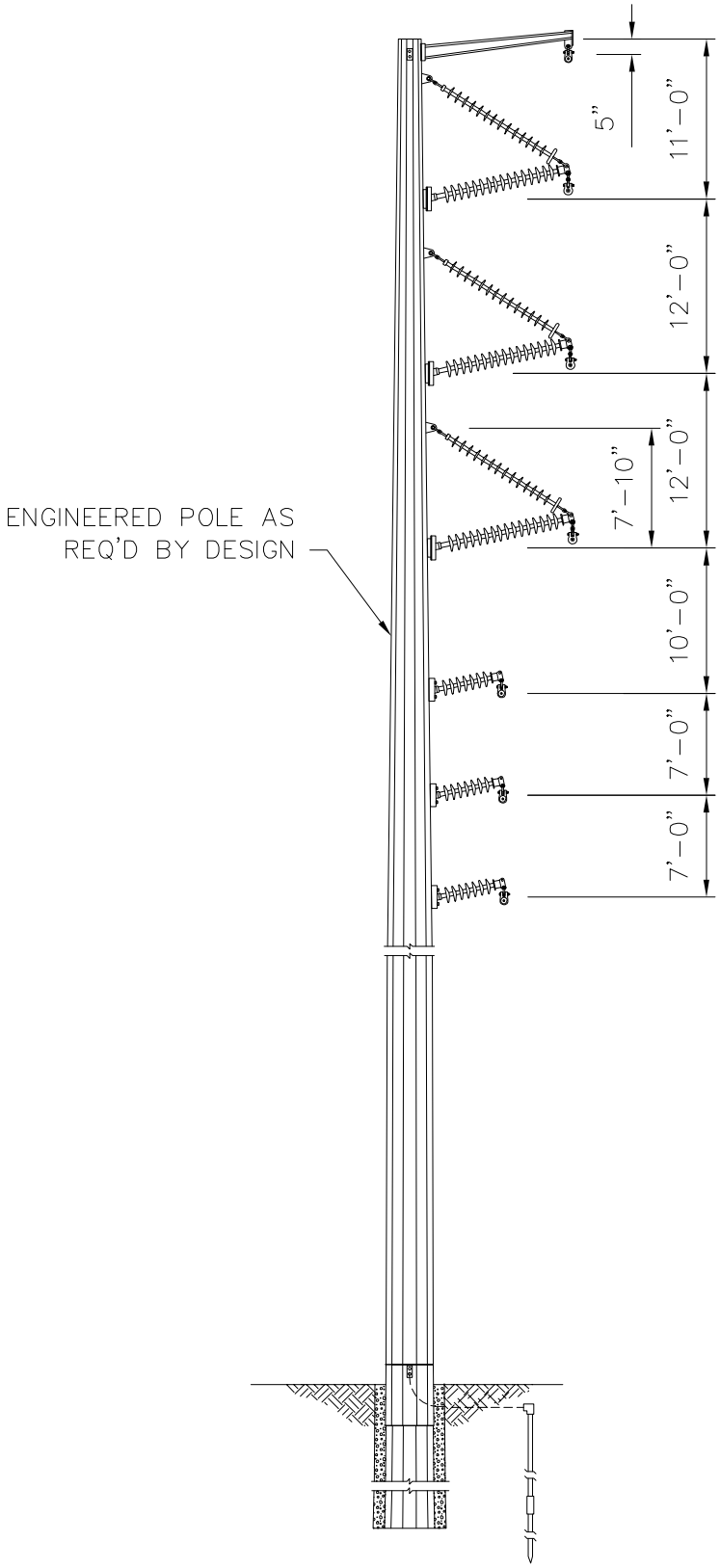
NORTH

0.5 0.25 0 0.5
Miles

Figure 1-12
St. Cloud East - Magnolia Ranch
North 230kV Transmission Line Corridor
Location Along St. Cloud East - Magnolia
Ranch North Corridor of Typical Cross Sections

Source: Esri, FAA, Energy Velocity, FEMA, NTAD, USGS, NHD, NWI, Burns & McDonnell

Issued: 6/11/2021



LONGITUDINAL VIEW

OUC The Reliable One

BURNS McDONNELL

date 11/24/20

designed R. RIDENOUR

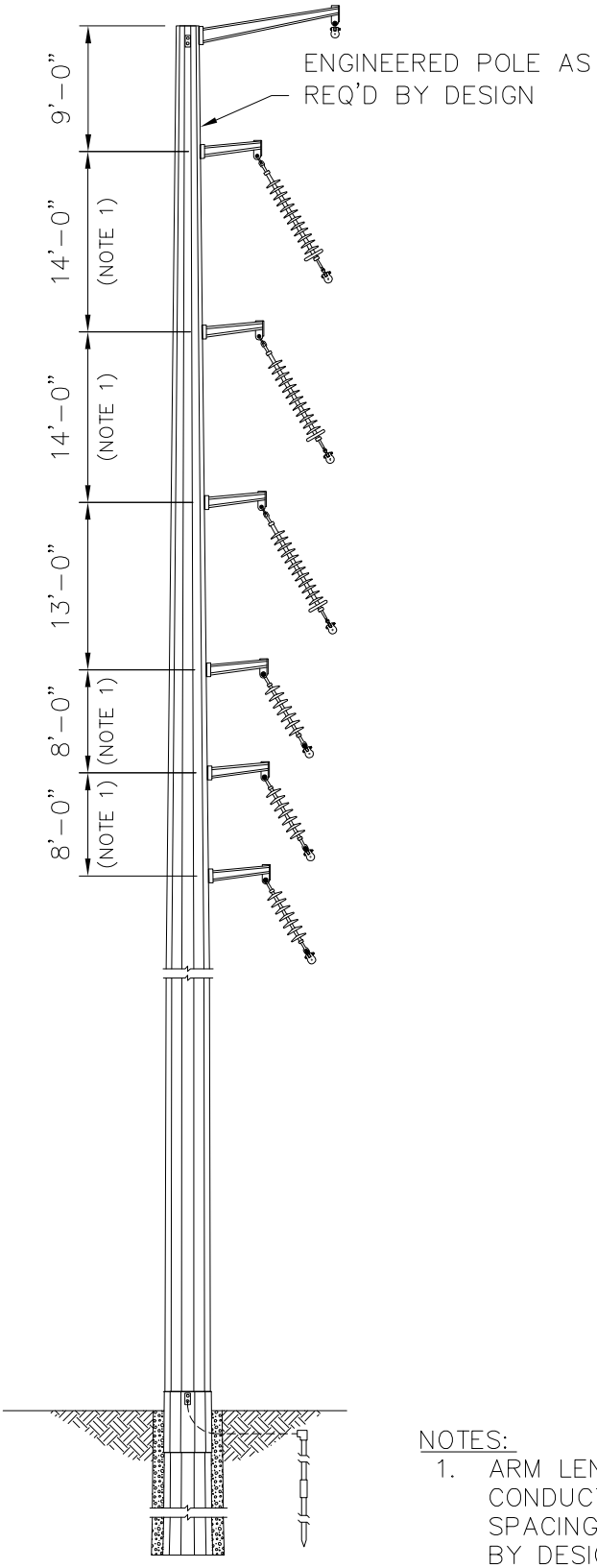
ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230KV TRANSMISSION LINE

TYPICAL 230-69kV DOUBLE CIRCUIT
BRACED POST
TANGENT STRUCTURE

project 7-2934

contract

FIGURE 1-13

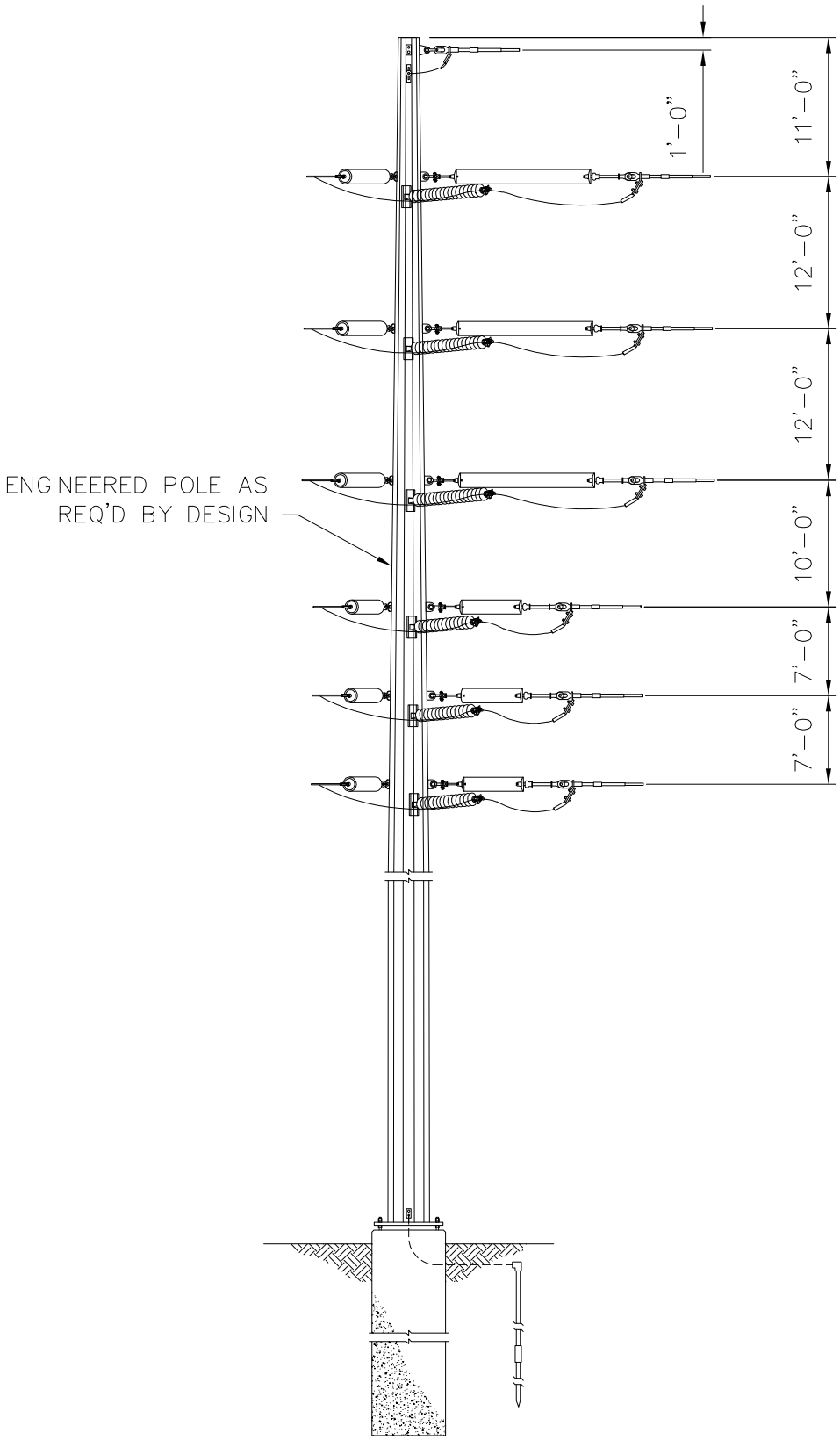


NOTES:

1. ARM LENGTH AND CONDUCTOR VERTICAL SPACING TO BE DETERMINED BY DESIGN ENGINEER.

LONGITUDINAL VIEW

OUC The Reliable One BURNS McDONNELL date 11/24/20 designed R. RIDENOUR	**ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE** TYPICAL 230-69kV DOUBLE CIRCUIT RUNNING ANGLE TANGENT STRUCTURE	project 7-2934 contract **FIGURE 1-14**



LONGITUDINAL VIEW

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date 11/25/20

designed R. RIDENOUR

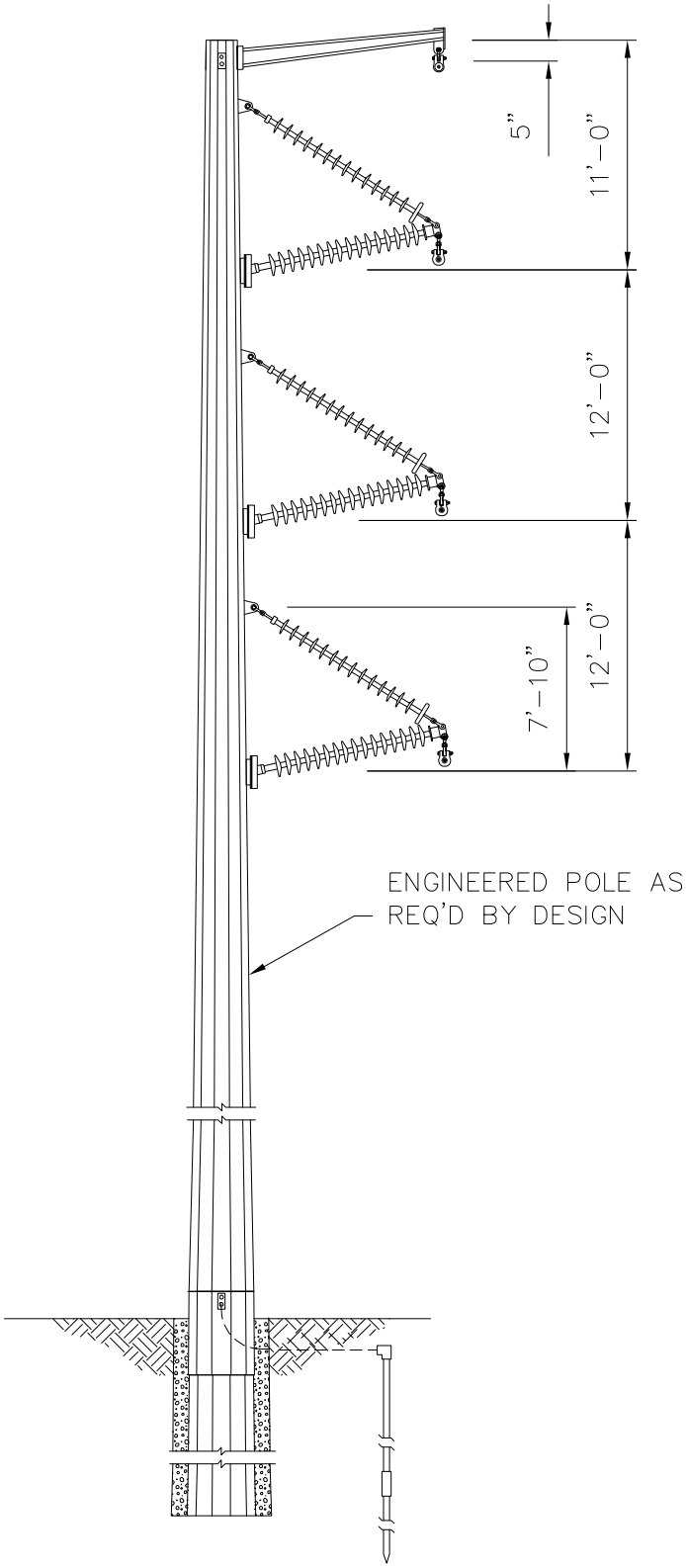
ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE

TYPICAL 230-69kV DOUBLE CIRCUIT DEADEND STRUCTURE

project 7-2934

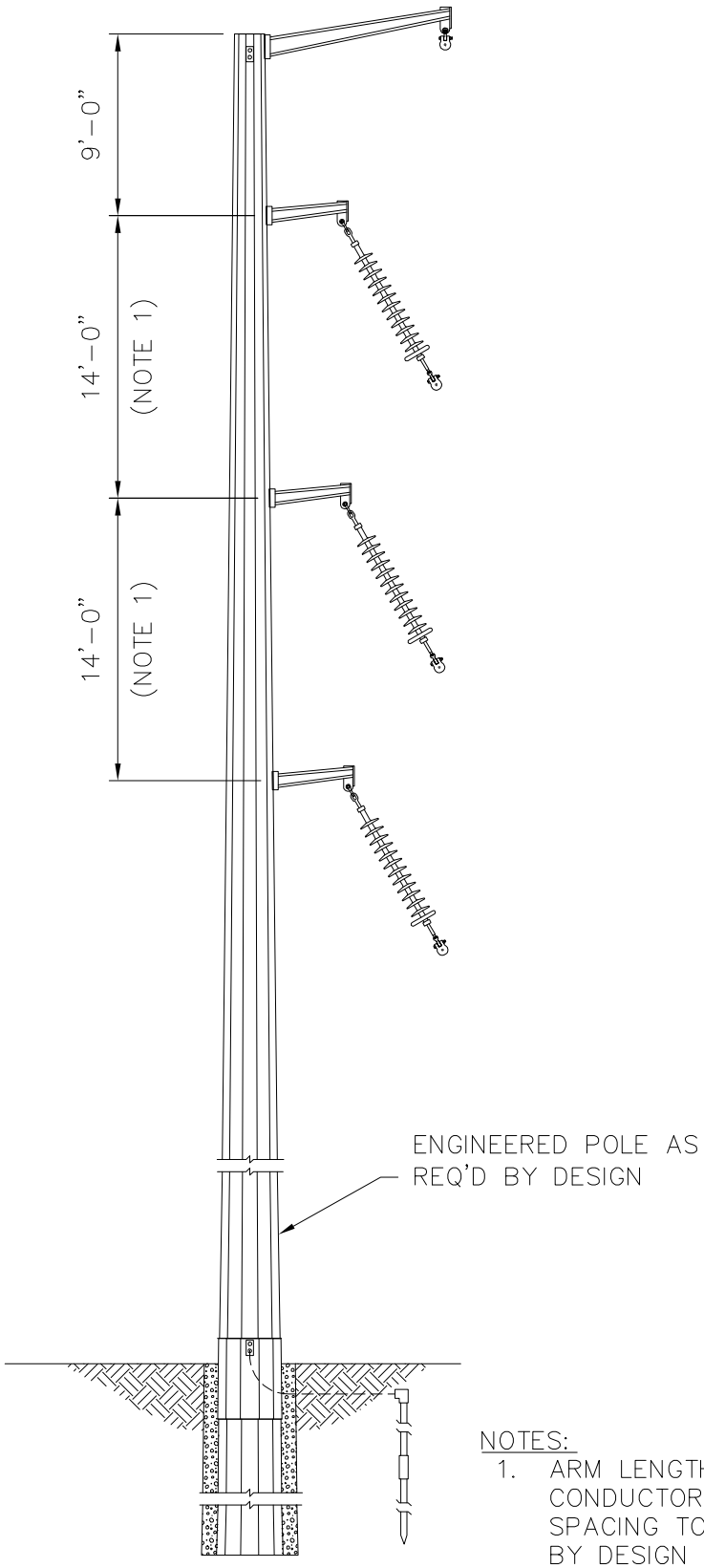
contract

FIGURE 1-15



LONGITUDINAL VIEW

OUC The Reliable One BURNS McDONNELL date 11/25/20 designed R. RIDENOUR	**ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE** TYPICAL 230kV SINGLE CIRCUIT BRACED POST TANGENT STRUCTURE	project 7-2934 contract **FIGURE 1-16**



NOTES:

1. ARM LENGTH AND CONDUCTOR VERTICAL SPACING TO BE DETERMINED BY DESIGN ENGINEER.

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date 11/25/20

designed R. RIDENOUR

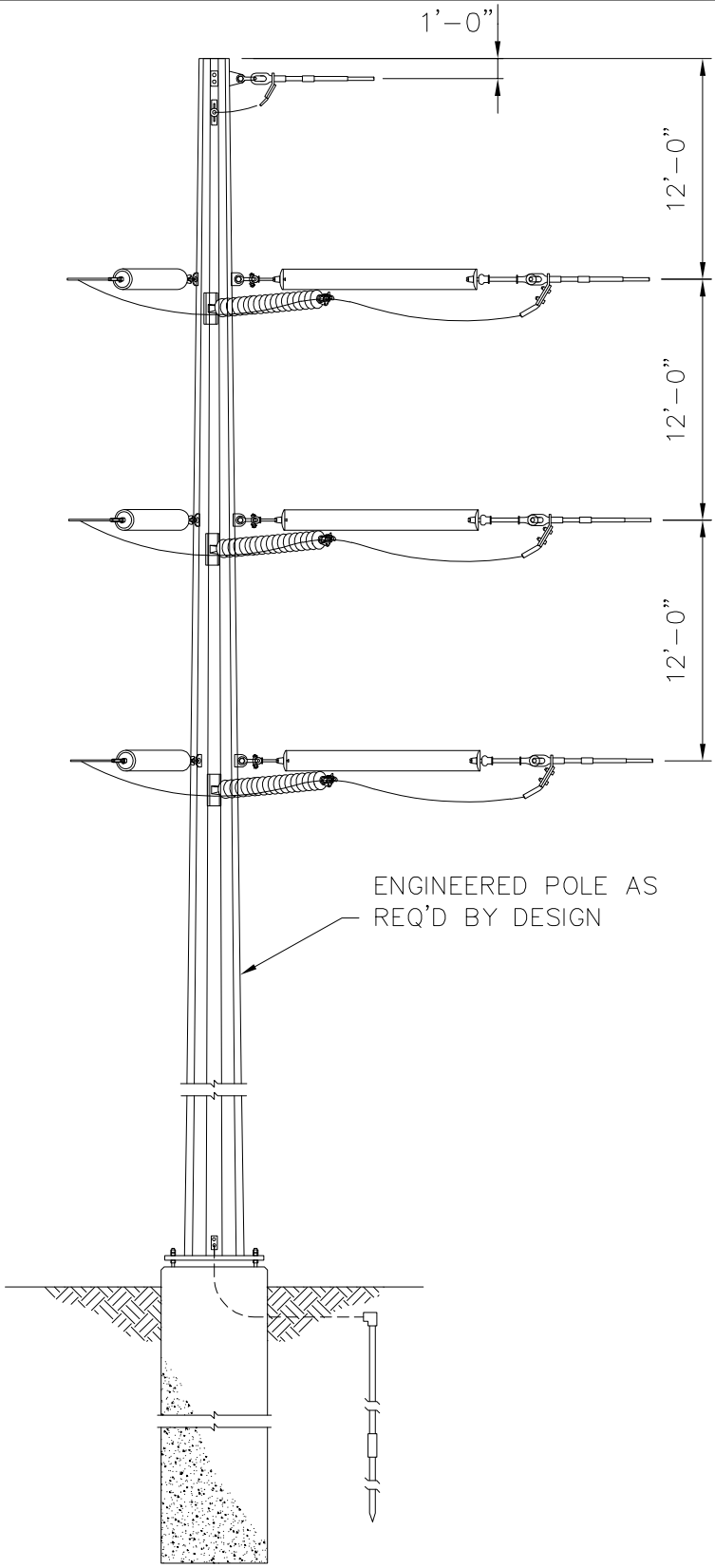
ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE

TYPICAL 230kV SINGLE CIRCUIT RUNNING ANGLE TANGENT STRUCTURE

project 7-2934

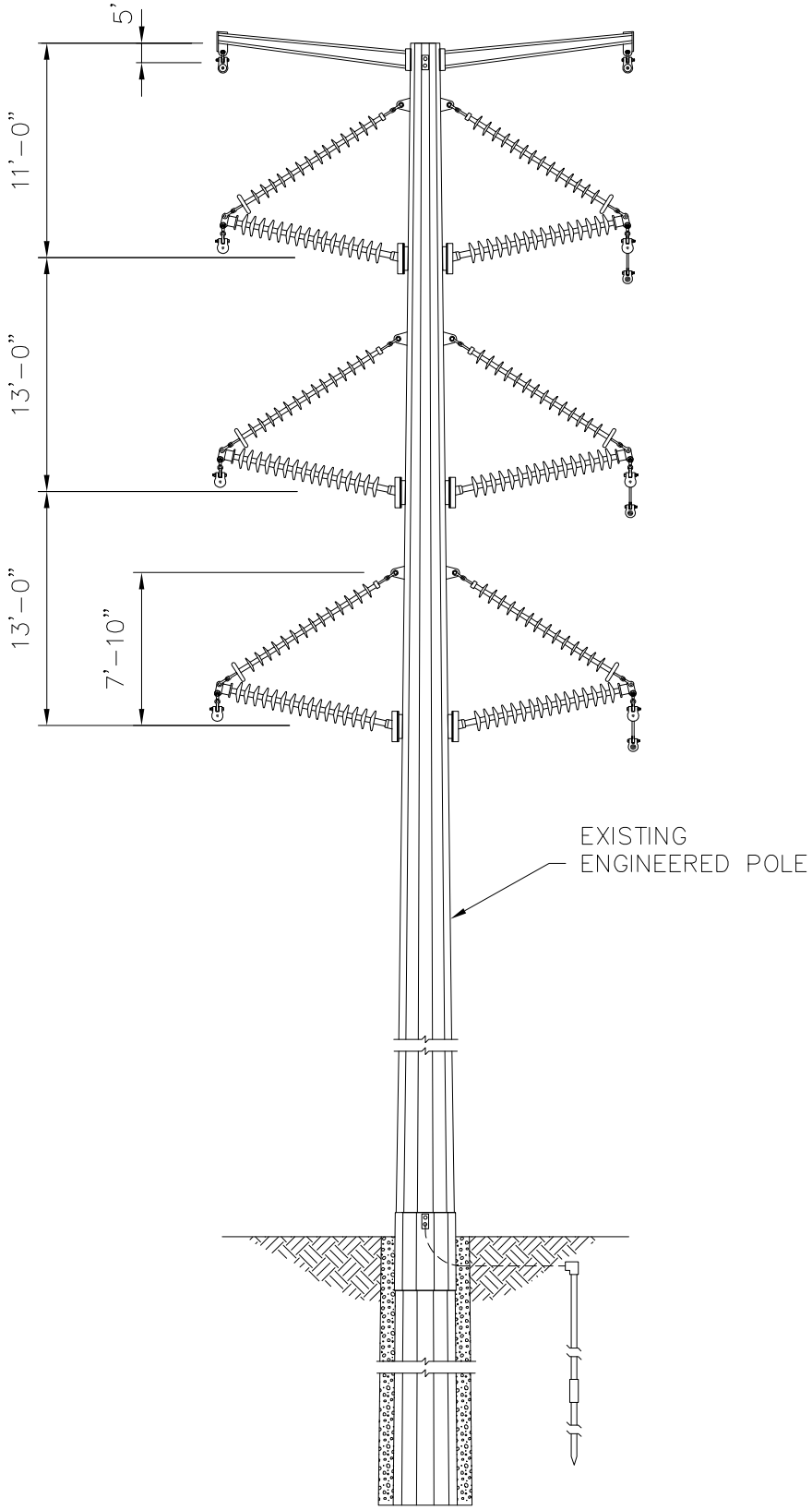
contract

FIGURE 1-17



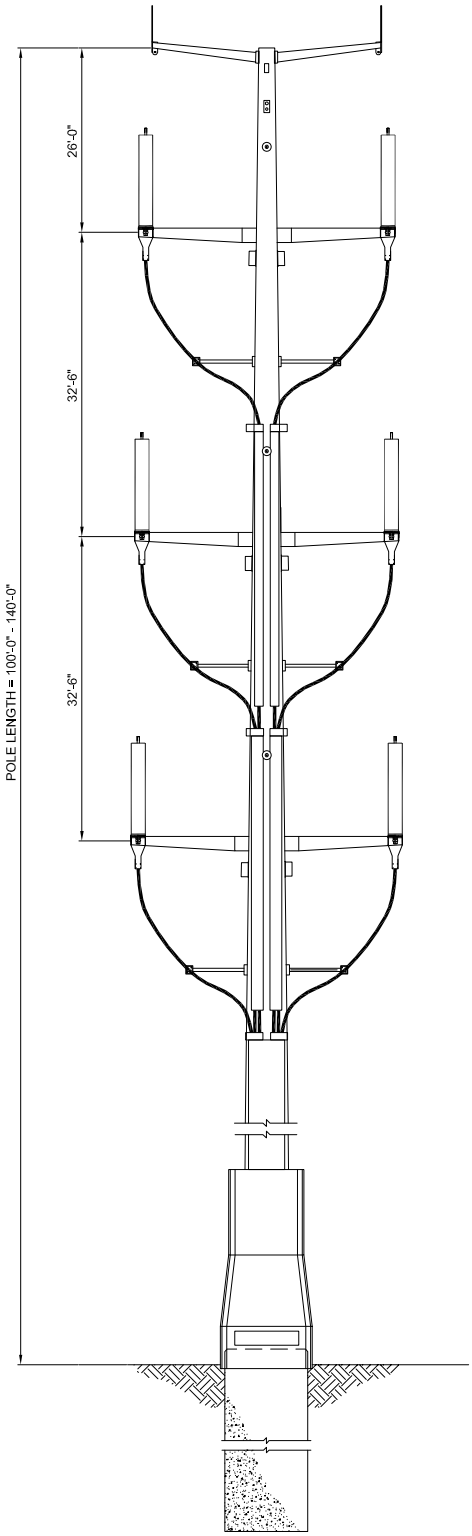
LONGITUDINAL VIEW

OUC The Reliable One BURNS McDONNELL date 11/25/20 designed R. RIDENOUR	**ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE** TYPICAL 230kV SINGLE CIRCUIT DEADEND STRUCTURE	project 7-2934 contract **FIGURE 1-18**



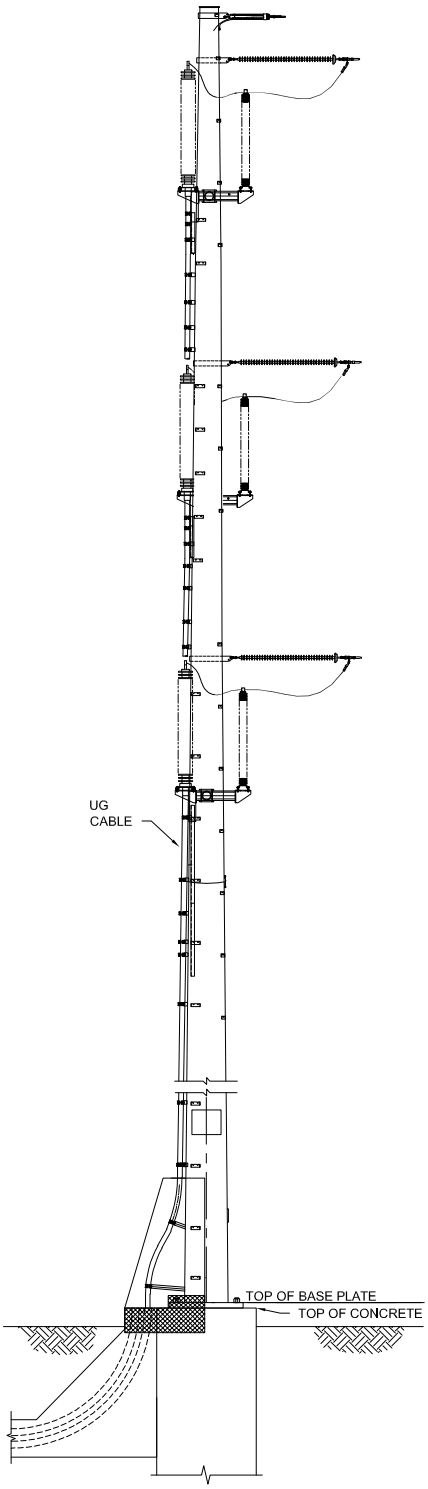
LONGITUDINAL VIEW

OUC The Reliable One BURNS McDONNELL date 11/25/20 designed R. RIDENOUR	**ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE** TYPICAL 230kV DOUBLE CIRCUIT BRACED POST TANGENT STRUCTURE	project 7-2934 contract **FIGURE 1-19**



LONGITUDINAL VIEW

NOT TO SCALE



TRANSVERSE VIEW

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OUC The Reliable One

BURNS McDONNELL

date 11/25/20

designed R. RIDENOUR

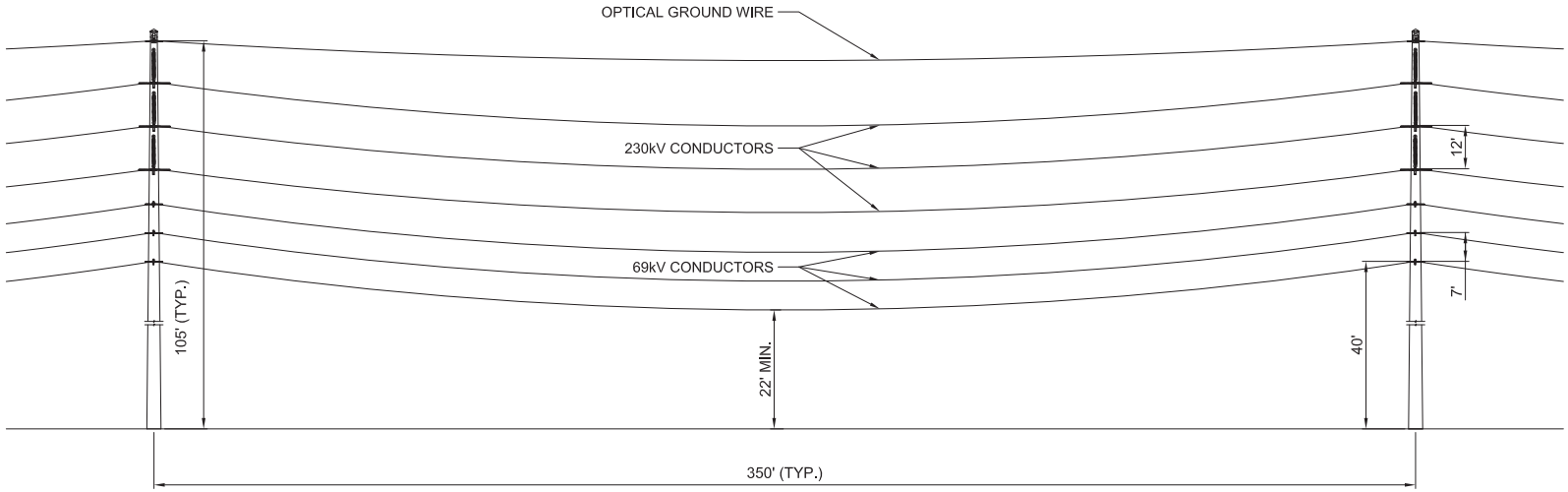
ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE

TYPICAL 230kV UNDERGROUND RISER STRUCTURE FRAMING

project 7-2934

contract

FIGURE 1-20



NOTES:

1. THIS PROFILE ASSUMES A SPAN LENGTH OF 350' AND POLE HEIGHTS OF 105' ABOVE GRADE. MID-SPAN CLEARANCES ALONG THE LINE WILL VARY DEPENDING ON POLE HEIGHTS, SPAN LENGTHS, AND TOPOGRAPHY BETWEEN STRUCTURES.
2. CONDUCTOR AND OPTICAL GROUND WIRE SHOWN AT MAXIMUM DESIGN TEMPERATURES.

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ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230KV TRANSMISSION LINE
CONDUCTOR PROFILE - 350-FT SPAN AND 105-FT POLE - HEIGHTS ABOVE GRADE

project 7-2934 | contract -

drawing **FIGURE 1-21 –** rev. **0**

sheet - of - sheets

file FIGURE 1-21.DWG

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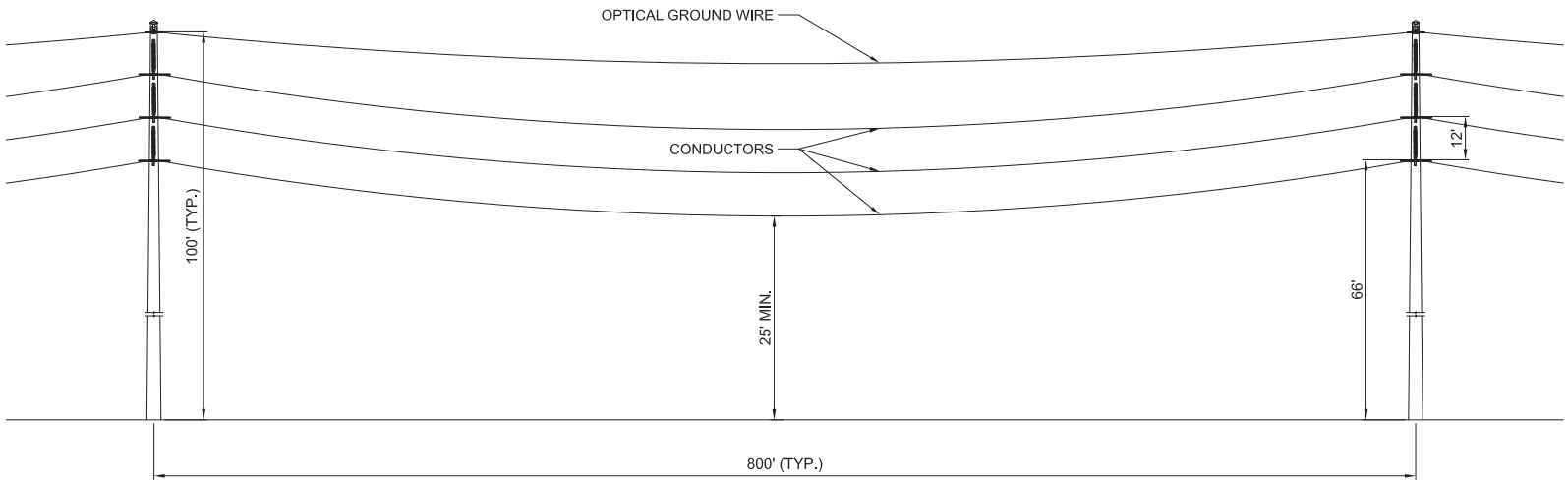

NOTES:

1. THIS PROFILE ASSUMES A SPAN LENGTH OF 800' AND POLE HEIGHTS OF 100' ABOVE GRADE. MID-SPAN CLEARANCES ALONG THE LINE WILL VARY DEPENDING ON POLE HEIGHTS, SPAN LENGTHS, AND TOPOGRAPHY BETWEEN STRUCTURES.
2. CONDUCTOR AND OPTICAL GROUND WIRE SHOWN AT MAXIMUM DESIGN TEMPERATURES.

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designed	checked
RWR	RWR

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ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230KV TRANSMISSION LINE
CONDUCTOR PROFILE - 800-FT SPAN AND 100-FT POLE - HEIGHTS ABOVE GRADE

project 7-2934 | contract -

drawing **FIGURE 1-22 –** rev. **0**

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file FIGURE 1-22.DWG

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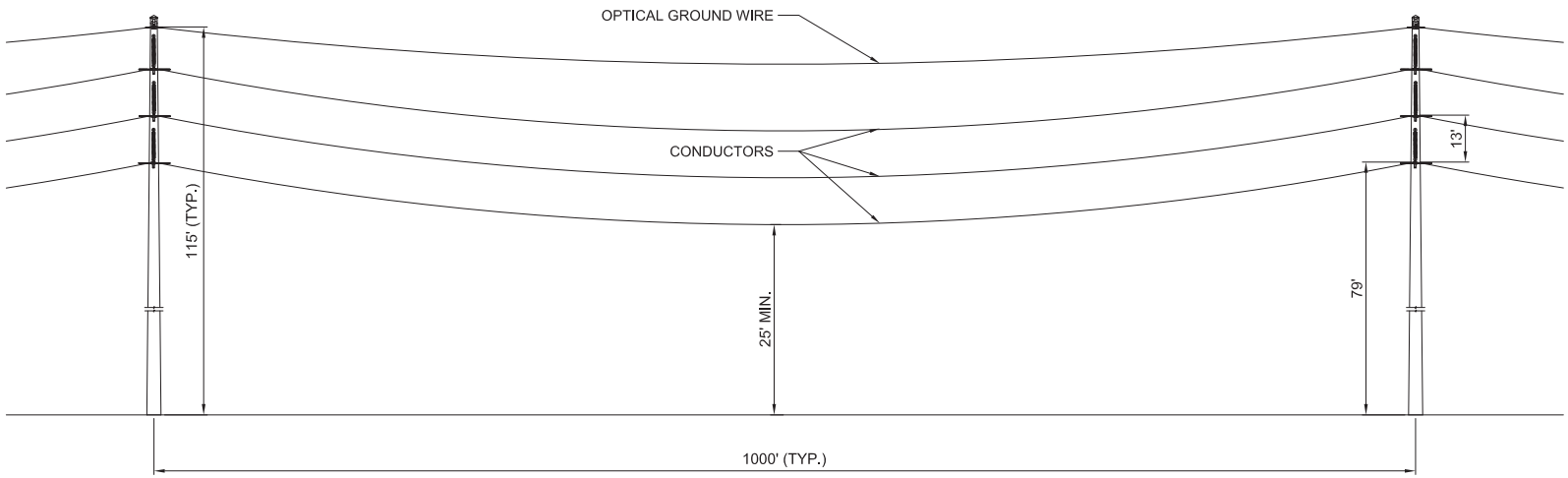

NOTES:

1. THIS PROFILE ASSUMES A SPAN LENGTH OF 1000' AND POLE HEIGHTS OF 115' ABOVE GRADE. MID-SPAN CLEARANCES ALONG THE LINE WILL VARY DEPENDING ON POLE HEIGHTS, SPAN LENGTHS, AND TOPOGRAPHY BETWEEN STRUCTURES.
2. CONDUCTOR AND OPTICAL GROUND WIRE SHOWN AT MAXIMUM DESIGN TEMPERATURES.

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designed	checked
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ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230KV TRANSMISSION LINE
CONDUCTOR PROFILE - 1000-FT SPAN AND 115-FT POLE - EXISTING STRUCTURES

project 7-2934 | contract -

drawing **FIGURE 1-23 –** rev. **0**

sheet - of - sheets

file FIGURE 1-23.DWG

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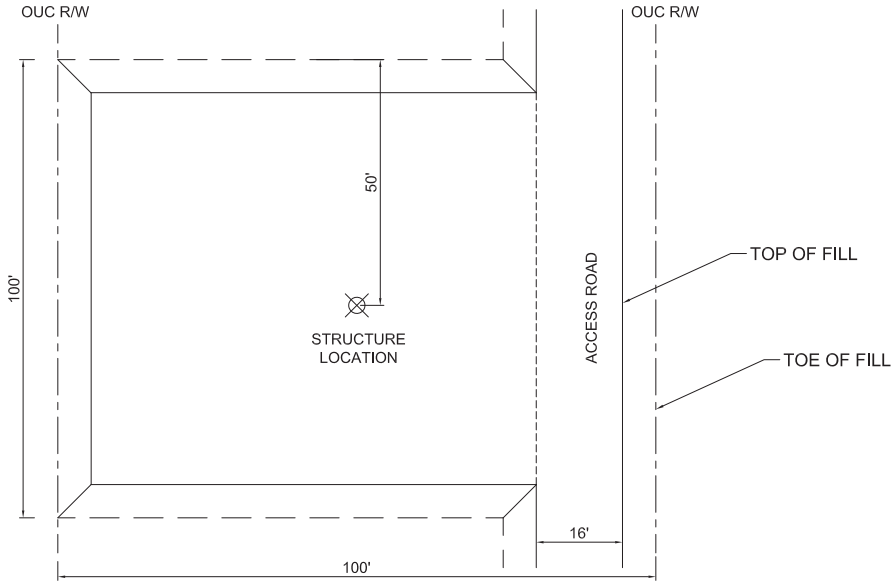
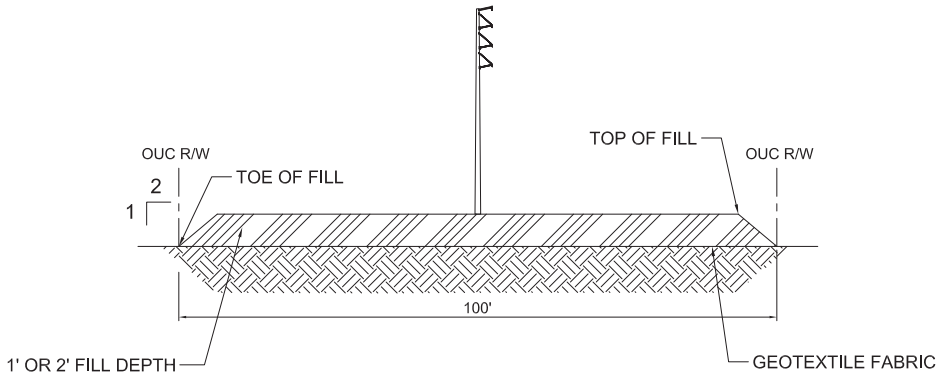


PROPOSED STRUCTURE PAD 1
PLAN VIEW



PROPOSED STRUCTURE PAD 1
PROFILE VIEW

LEGEND

PROPOSED PAD

EXISTING GRADE

NOT TO SCALE

NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.
2. SILT FENCE TO BE INSTALLED AROUND ALL AREAS OF CONSTRUCTION.
3. TOP SURFACE OF PAD TO BE LEVELED AND SHALL BE SEEDED AND MULCHED.
4. SIDE SLOPES TO BE 2H TO 1V AND SHALL BE SODDED.

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designed	checked
RWR	RWR

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ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230kV TRANSMISSION LINE
STRUCTURE ACCESS PAD
TYPE 1

project 7-2934 | contract CONTRACT

drawing **FIGURE 1-24 –** rev. **0**

sheet 1 of 1 sheets

file FIGURE 1-24.DWG

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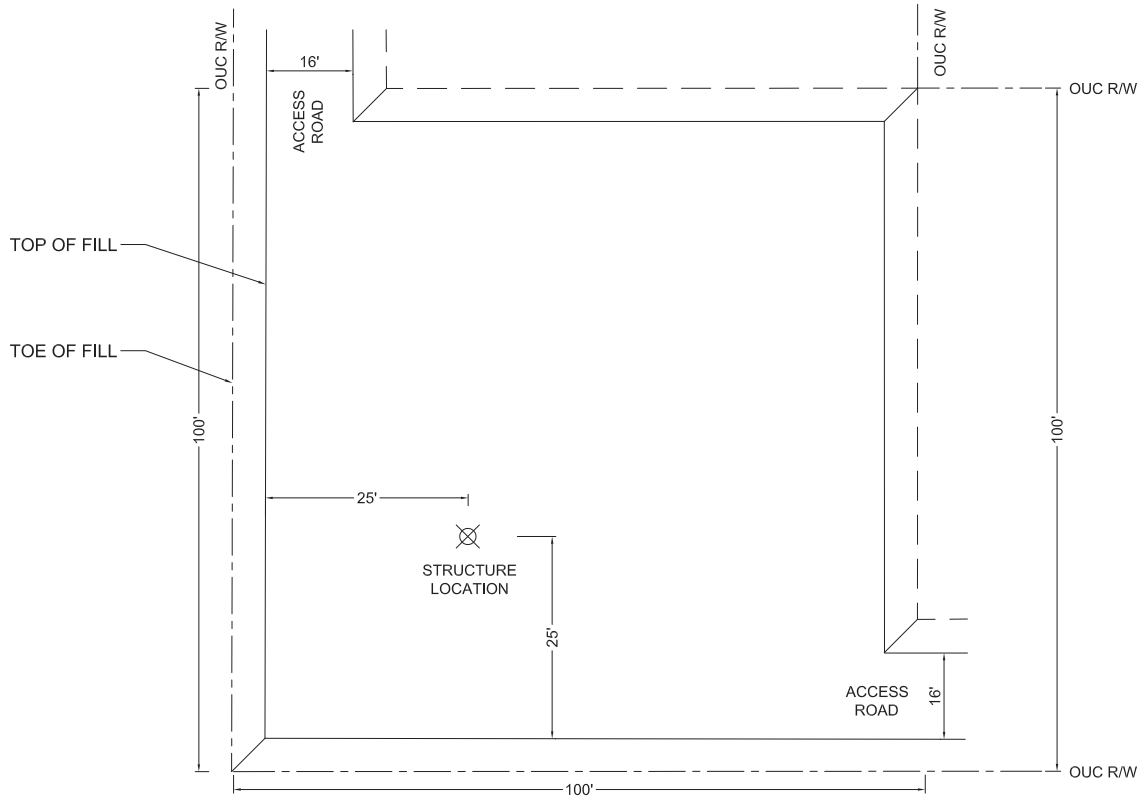
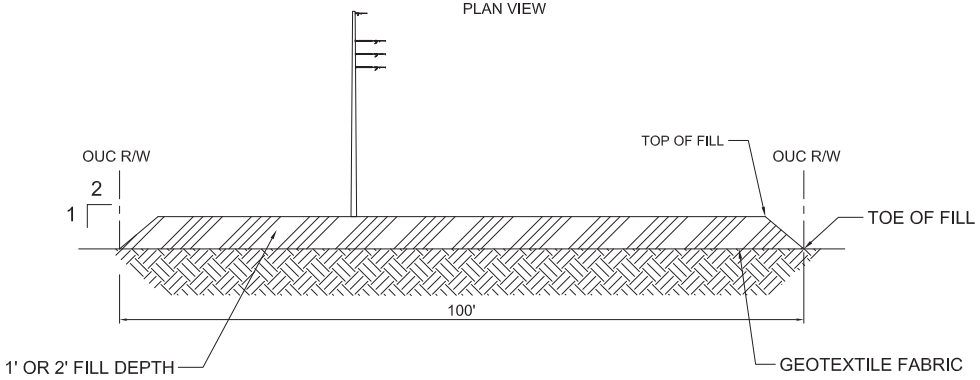


PROPOSED STRUCTURE PAD 2
PLAN VIEW



PROPOSED STRUCTURE PAD 2
PROFILE VIEW

LEGEND

PROPOSED PAD

EXISTING GRADE

NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.
2. SILT FENCE TO BE INSTALLED AROUND ALL AREAS OF CONSTRUCTION.
3. TOP SURFACE OF PAD TO BE LEVELED AND SHALL BE SEEDED AND MULCHED.
4. SIDE SLOPES TO BE 2H TO 1V AND SHALL BE SODDED.

NOT TO SCALE

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designed	checked
RWR	RWR

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ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230kV TRANSMISSION LINE
STRUCTURE ACCESS PAD
TYPE 2

project 7-2934 | contract CONTRACT

drawing **FIGURE 1-25 –** rev. **0**

sheet 1 of 1 sheets

file FIGURE 1-25.DWG

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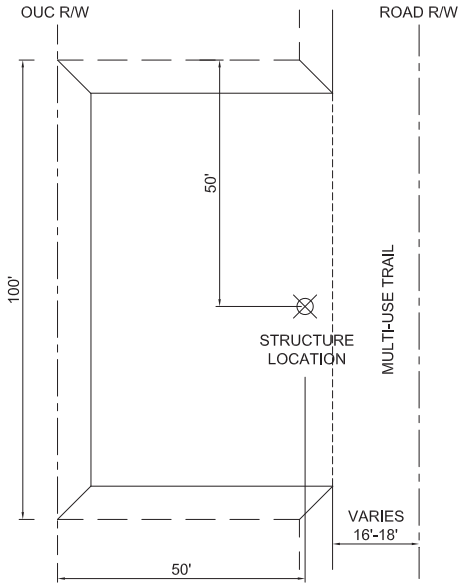
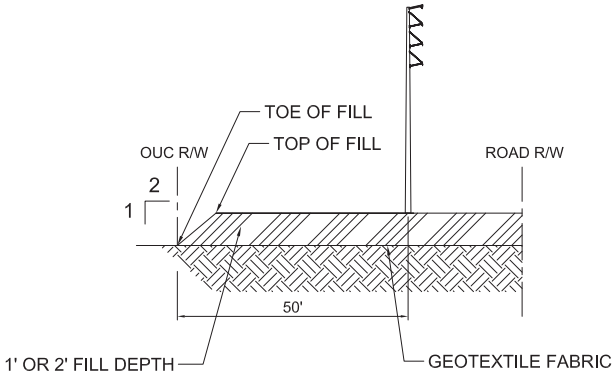


PROPOSED STRUCTURE PAD 3
PLAN VIEW



PROPOSED STRUCTURE PAD 3
PROFILE VIEW

LEGEND

PROPOSED PAD

EXISTING GRADE

NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.
2. SILT FENCE TO BE INSTALLED AROUND ALL AREAS OF CONSTRUCTION.
3. TOP SURFACE OF PAD TO BE LEVELED AND SHALL BE SEEDED AND MULCHED.
4. SIDE SLOPES TO BE 2H TO 1V AND SHALL BE SODDED.

NOT TO SCALE

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designed	checked
RWR	RWR

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ST. CLOUD EAST - MAGNOLIA RANCH NORTH
230kV TRANSMISSION LINE
STRUCTURE ACCESS PAD
TYPE 3

project	contract
7-2934	CONTRACT

drawing **FIGURE 1-26 –** rev. **0**

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file FIGURE 1-26.DWG

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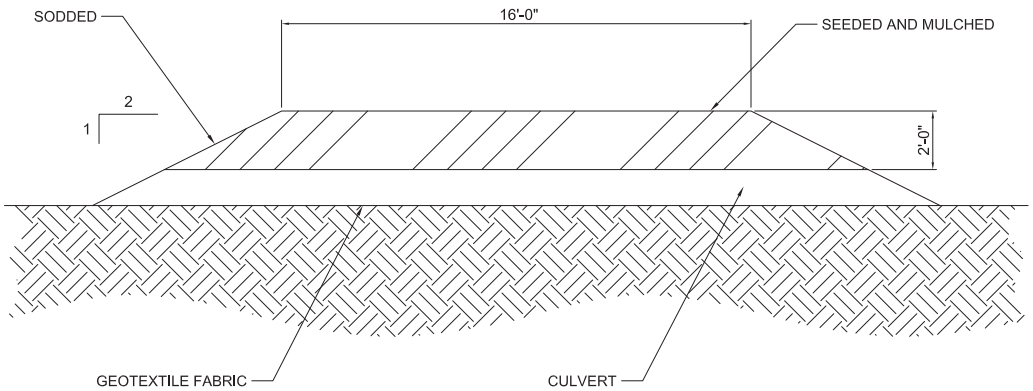

LEGEND

PROPOSED PAD

EXISTING GRADE

NOTES:

1. TYPICAL CONFIGURATION SHOWN. FINAL CONFIGURATION MAY VARY.
2. SPACING, DIAMETER, AND LENGTH OF CULVERTS AS REQUIRED TO MAINTAIN FLOW. A MINIMUM OF 2 FEET OF COVER IS REQUIRED OVER THE CULVERT.

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designed	checked
RWR	RWR

OUC The Reliable One

ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230kV TRANSMISSION LINE
TYPICAL ACCESS ROAD

project	contract
7-2934	CONTRACT

drawing **FIGURE 1-27 –** rev. **0**

sheet 1 of sheets

file FIGURE 1-27.DWG

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2.0 DESCRIPTION OF THE PROPOSED CORRIDOR

The following sections of this Application describe the methodology that was used to identify route alternatives, conduct comparative evaluations, and identify the proposed route for the Project. The following sections also provide descriptions of the social, political, biological, and physical environment of the proposed corridor and surrounding area. This description includes information gathered from agency correspondence, field reconnaissance, two open house meetings, stakeholder meetings, and discussions with state and local government agencies.

Given the need for the Project, OUC assembled a multi-disciplinary team to identify and evaluate potential transmission line corridors that would connect the St. Cloud East Substation with the Magnolia Ranch North Substation. The team recognized that it may be beneficial to co-locate the proposed transmission line with existing and proposed linear facilities, when practicable. The team concluded that the existing OUC transmission line ROWs located between the St. Cloud East Substation and the Magnolia Ranch North Substation could accommodate approximately 38% of the length of the Project. The team then focused much of its alternative analysis on options for routes between the existing transmission line ROWs. After evaluating numerous options, the team concluded that the remainder of the Project (i.e., the area between these two existing transmission line ROWs) should be co-located along the proposed Sunbridge Parkway (completion expected in 2023) and the Northeast Connector Expressway (construction anticipated to begin in 2034), as well as existing public and private roadways.

The information presented in this Application demonstrates that the corridor proposed by OUC is the most appropriate siting option for the Project. By comparison to other siting options, the proposed corridor will minimize the Project's overall impacts – i.e., the impacts associated with the construction, operation, and maintenance of the proposed transmission line when considered in light of environmental factors, existing and planned development, cost, feasibility, and other siting criteria.

2.1 Corridor Selection

To identify a corridor for the development of the Project, OUC established a multidisciplinary project team consisting of specialists in engineering, routing and siting, biology, environmental science, land use planning, construction, operations, system planning, real estate, and corporate marketing and communications. This team focused on identifying and evaluating alternative routes that would ultimately lead to the establishment of a corridor that would appropriately balance environmental and land use considerations, public input, reliability, safety, constructability, and other relevant criteria.

A corridor selection study was performed to evaluate alternative routes within an approximately 168 square mile study area and develop a certifiable corridor that would balance land use, socioeconomic, environmental, engineering, and cost considerations. The corridor selection methods were designed to be:

- Integrative of multidisciplinary siting criteria
- Rational and objective in decision making
- Sensitive to social and environmental conditions
- Responsive to and compliant with regulatory requirements
- Reflective of potential community concerns and issues
- Capable of documentation and verification

The corridor selection study included:

- Establishment of evaluation criteria, a geographic information systems (GIS) database, and study areas
- Identification and evaluation of route segments and multi-segment alignments
- Public involvement
- Corridor development

2.1.1 Establishment of the Study Area, GIS Database, and Evaluation Criteria

2.1.1.1 Establishment of Study Area

The study area for the Project is located in east-central Florida in Orange and Osceola Counties. The northern half of the study area is in Orange County and the southern half of the study area is in Osceola County. The study area was developed to include the St. Cloud North to Stanton Energy Center 69-kV transmission line and the St. Cloud North to St. Cloud East 69-kV transmission line within the western boundary of the study area, the St. Cloud East Substation within the southern boundary of the study area, and the Magnolia Ranch North Substation within the northern boundary of the study area. The eastern boundary of the study area was developed to provide a large enough area to investigate potential route alternatives through the eastern portion of the study area. The boundaries of the approximately 168 square mile study area are described below and depicted in Figure 2-1.

NORTHERN BOUNDARY— Martin Andersen Beachline Expressway (SR 528)

The northern boundary of the study area is the Martin Andersen Beachline Expressway (SR 528), which is approximately 2.4 miles north of the OUC Magnolia Ranch North Substation.

EASTERN BOUNDARY—Cocoa Water Plant Road

The eastern boundary of the study area begins at the intersection of SR 528 and the Econolockhatchee River. It extends southeast approximately 5 miles to Cocoa Water Plant Road and then turns due south and continues to a point approximately 1.7 miles south of Nova Road.

WESTERN BOUNDARY— Narcoossee Road

The western boundary of the study area is generally located immediately west of Narcoossee Road, extending from the intersection of SR 528 and SR 417 southwest to a point approximately 1 mile west of Narcoossee Road, continuing southeast across East Lake Tohopekaliga, and then south adjacent

to Narcoossee Road to the intersection with US 192, where it intersects the southern boundary of the study area.

SOUTHERN BOUNDARY— Irlo Bronson Memorial Highway (US 192)

The southern boundary of the study area generally follows the Irlo Bronson Memorial Highway (US 192) from Narcoossee Road to a point south of the St. Cloud East Substation. It then extends northeast along the northern edge of Buck Lake and Lake Conlin, until turning east approximately 1.7 miles south of Nova Road. The boundary continues east until it intersects the eastern boundary of the study area near Fourmile Swamp.

2.1.1.2 Establishment of Database

After establishing the study area, data was collected from publicly available sources, including federal, state, and local agencies, to identify constraints and environmental concerns that should be considered when siting the proposed transmission line. During the route identification stage, a GIS database was established with available information to enable a systematic comparison of route alternatives based on land use, social, environmental, and technical criteria that address the potential resources that could be affected in the study area. The data sources used included, but were not limited to:

- Florida Fish and Wildlife Conservation Commission (FWC) protected wildlife species data
- Florida Department of Agriculture and Consumer Services (FDACS) protected plant species data
- Florida Natural Areas Inventory (FNAI) element occurrence data
- South Florida Water Management District (SFWMD) and St. Johns River Water Management District (SJRWMD) land use/land cover data
- Information from Osceola County, Orange County, the City of Orlando, and the City of St. Cloud regarding existing and proposed schools, community facilities, parks, and roadway improvements
- GIS databases from Osceola and Orange counties consisting of property ownership maps, public records, and aerial photography
- Comprehensive plans, future land use maps, and land development codes for Orange County, Osceola County, and the City of Orlando

Field reconnaissance was conducted for the route segments to obtain additional information concerning environmental, land use and existing infrastructure issues. In the field, the team recorded its environmental and land use observations on aerial photographs. All this information, including data gathered during the field reconnaissance, was incorporated into the Project GIS database.

2.1.1.3 Establishment of Evaluation Criteria

Based on the characteristics of the study area, environmental, land use, engineering, safety, and cost criteria were developed to evaluate route segments and multi-segment alignment options. These criteria are listed in Table 2-1. The criteria were evaluated both quantitatively and qualitatively. The quantitative evaluation criteria were developed by identifying the measurement of a series of

environmental, land use, engineering, and cost variables. The qualitative evaluation was based on Project requirements and included information gathered through regulatory agency discussions and correspondence and field reconnaissance.

Weights were assigned to the criteria, based on the input received from regulatory agencies, the public comments received during and after two open house meetings, and the experience of the multi-disciplinary team when working on other transmission line projects. A weight scale from 1 to 10 was used, with 1 representing the lowest level of concern and 10 representing the highest level of concern during the evaluation. Although all the relevant criteria need to be considered, the criteria were weighted because some criteria have a greater capacity to influence the Project than others.

2.1.2 Route Identification and Evaluation

The objective of the routing analysis was to identify potential routes in the study area that would provide reliable electric service in an economically feasible manner while minimizing the Project's adverse impacts to the social and natural environment. Data for the routing analysis included four main components:

- Field reconnaissance of the study area
- Review of US Geological Survey (USGS) topographic maps and recent aerial photography
- Review of local planning and zoning documents and available GIS data
- Contacts with local, state, and federal agencies

Based on the information gathered, several feasible routes were identified that would connect the existing St. Cloud East Substation to the existing Magnolia Ranch North Substation. The primary goals regarding routing were to:

- Provide a safe and reliable route
- Minimize impacts to wetlands, protected lands, and the habitat of sensitive species, where possible
- Maximize the distance between the proposed transmission line and existing residences and existing subdivisions, when possible
- Minimize the impacts to private property and natural resources by following existing roadways, utility corridors, or parcel lines, where possible
- Minimize the overall length of the route

2.1.2.1 Identification of Route Segments

The route alternatives are comprised of individual segments that can be combined in different arrangements to form a continuous path from the St. Cloud East Substation to the Magnolia Ranch North Substation. Each segment begins and ends at intersections with other segments. The set of route alternatives for the Project included 16 individual segments. The alternatives were identified to minimize, to the extent practicable, impacts to environmentally sensitive features and residential areas

while providing a relatively direct route alignment. Ultimately, 16 distinct routes were developed using a combination of the 16 segments, as shown on Figure 2-2.

Route segments were identified using the following location principles:

- Maximize co-location with other linear features, including arterial and collector roads, major canals, and railroads
- Maximize co-location with existing transmission and distribution lines
- Maximize use of previously disturbed alignments (roads, trails, canals, ditches, etc.) through wetlands and upland forested areas
- Minimize proximity to residences
- Minimize proximity to schools and other community facilities
- Minimize proximity to known eagle nests
- Minimize proximity to sites listed on the National Register of Historic Places (NRHP)
- Minimize locations in state lands or other conservation areas and parks
- Minimize the potential to create traffic congestion and impacts on business access during the construction and maintenance of the new transmission line
- Maintain distance from registered public and private airports, consistent with Federal Aviation Administration (FAA) and other applicable federal, state, and county airspace regulations
- Minimize severance of land under common ownership

The 16 multi-segment alignments were situated predominantly within existing transmission line ROWs and adjacent to arterial or collector road ROWs. These 16 segments created three basic options for the proposed route. In general, these three route options are located in the western, central, and eastern part of the study area. The Western, Central, and Eastern options are described below:

- Western: St. Cloud East – St. Cloud North transmission line, Narcoossee Road; 10 route segments made up 4 multi-segment alignment options
- Central: St. Cloud East – St. Cloud North transmission line, Northeast Connector Expressway, Cyrils Bypass Road, Sunbridge Parkway, Wewahootee Road; 11 route segments made up 8 multi-segment alignment options
- Eastern: St. Cloud East – St. Cloud North transmission line, Nova Road, Dallas Boulevard, Wewahootee Road; 9 route segments made up 4 multi-segment alignment options

Route Segments

Route	Segments
Western Routes	
3	1,8,10,11,13
8	1,8,9,13
9	2,3,6,8,10,11,13
14	2,3,6,8,9,13
Central Routes	
4	1,8,10,12,14,16
5	1,8,10,12,15,16

6	1,8,9,11,12,14,16
7	1,8,9,11,12,15,16
10	2,3,6,8,10,12,14,16
11	2,3,6,8,10,12,15,16
12	2,3,6,8,9,11,12,14,16
13	2,3,6,8,9,11,12,15,16
Eastern Routes	
1	1,6,5,7,14,16
2	1,6,5,7,15,16
15	2,4,7,14,16
16	2,4,7,15,16

2.1.2.2 Route Segment and Multi-Segment Evaluation

The identification and evaluation of route segments and multi-segment alignments was an iterative process in which several comparisons and combinations of route segments were evaluated quantitatively and qualitatively using the criteria described in Table 2-1 and the location principles discussed above. Table 2-2 summarizes the numerical data for all the multi-segment alignments, based on the quantitative evaluation criteria.

No single route had the lowest value for all the measured criteria. While a route may have been the lowest for one criterion, it may have been much higher for another. The routing criteria included various measurement units such as score, length, acres, and number of selected resources that also need to be considered together in the evaluation.

The evaluation of numerous criteria and differences in measurement units was accomplished using a relative scoring methodology (Max-Min), which is based on a proportional distribution between minimum and maximum values and resulted in a score between 1 and 10 for each criterion. Using this formula, all criteria would have a score with a range from 1 to 10. Scores in the upper ranges indicate criteria with greater relative impacts, while scores in the lower ranges indicate criteria with fewer relative impacts.

After all Max-Min scores were calculated, the Project team applied the weights described in Table 2-1 and then summed for all criteria for each potential route to provide a total weighted route score that can be compared with all other routes. Total weighted route scores, beginning with routes having the lowest scores (least overall impact) and continuing to the routes having the highest scores (greater overall impact), are presented in Table 2-2 and ranged from a low of 292.3 to a high of 646.4. The proposed corridor (Route 4) is the overall lowest-scoring route alternative and it has a weighted Max-Min score of 292.3.

2.1.3 Public Involvement

OUC recognized the need for the public to be informed and involved in the corridor selection process. The Project team developed a public outreach program with the primary goals of providing accurate, clear, and timely information to the public concerning the Project and soliciting public comments. The public engagement program included communications with federal, state, and local agencies, as well as key stakeholders within the study area. The input provided by these agencies and stakeholders was used by the Project team to (a) identify appropriate factors for evaluating the potential routes and (b) develop routes that limited impacts to resources of concern to the agencies and stakeholders.

2.1.3.1 Stakeholders List

A list of stakeholders was developed that included elected and appointed officials, regulatory agency representatives, and property owners in the vicinity of the alternative routes.

2.1.3.2 Information Distribution

The following methods were used to distribute information to stakeholders:

- Direct contact with elected and appointed officials and agency representatives
- Community notification letter distributed to property owners
- Public open house sessions with distribution of a Project survey and questionnaire

Copies of the public outreach materials are provided in Appendix A.

Elected and Appointed Officials and Agency Representatives

Information about the proposed Project was mailed to more than 46 representatives of local, state, and federal regulatory agencies, including city and county governments. Representatives were asked to provide their comments regarding potential areas and issues of concern, routing constraints, and opportunities within the Project study area. The representatives also provided valuable information regarding existing and future projects in the study area. The information obtained from this correspondence with the agency representatives was given careful consideration during the route evaluation process.

Community Notification Letter

An informational letter describing the Project and advertising two public workshops was mailed to all property owners whose land is located within 100 ft of one of the alternative routes. These letters were sent via mail approximately three weeks prior to the first workshop. A total of 985 notification letters were delivered.

Public Open House Sessions

The first public open house was held on January 28, 2020, at Narcoossee Middle School in St. Cloud, Florida. The second open house was held on January 30, 2020, at Innovation Middle School in Orlando, Florida. Representatives of the Project team were present during the open house sessions to discuss the Project, address the public's questions, and take comments. Attendees were encouraged to sign in

(providing name, address, and general contact information) and were provided a Project survey and questionnaire with which to share opinions and make comments about the Project.

At each open house, workstations were set up and subject matter experts were present to allow members of the public to walk through the open house workshops and gather information about the Project and the TLSA process. Visual displays included:

- Aerial photographs that showed the potential route alternatives
- Photographs and drawings of proposed transmission line structures
- Interactive GIS computer workstations that enabled the attendees to see the study area, the potential route alternatives, and the existing infrastructure, in relation to their own property
- Descriptions of the Project need, as well as engineering, environmental management, and ROW requirements

A total of 65 people signed in during the two open houses. On both evenings there were additional attendees observed that did not sign in. Participants at the workshops received a written questionnaire to communicate their opinions on the routing criteria, the segment and route locations, and issues of concern. Individuals could also review the study area and route alternatives and submit their comments at the GIS computer workstations at the workshops or online. A total of 25 questionnaires were received from landowners at the public workshops and 10 questionnaires were filled out online via the Project website. In addition, 55 comments from landowners were recorded at the GIS computer workstations during the public workshops.

2.2 Corridor Development

Based on a comprehensive evaluation of environmental, land use, safety, engineering, and cost criteria, the Project team developed the proposed corridor. The proposed corridor is designed to minimize impacts to the surrounding areas and allow for flexibility when establishing the location of the transmission line ROW and the location of transmission line structures. Figure 2-3 is comprised of 42 aerial photography maps that show the locations of the proposed corridor boundaries and the locations of major roads.

2.2.1 Corridor Description

The corridor originates at the existing St. Cloud East Substation in Osceola County and terminates at the existing Magnolia Ranch North Substation in Orange County (Figure 2-3). Since these substations already are in existence, OUC is not seeking certification of these substations in this Application. The overall length of the corridor is approximately 21 miles and the width ranges from 150 ft to approximately 4,500 ft to allow for a final ROW to be co-located with existing and planned linear facilities while avoiding conflict with proposed residential development and associated infrastructure. The corridor is co-located with the existing Magnolia Ranch-Stanton and St. Cloud East–St. Cloud North transmission ROWs and it is within or adjacent to the ROWs for existing and planned public roadways. Within the portion of the Project co-located with the St. Cloud East to St. Cloud North 69-kV ROW, OUC intends to replace

74 existing single-circuit monopole structures with double-circuit monopole structures to accommodate both circuits. When the ROW for the Project is selected, the width of the ROW will vary, but it is anticipated that the width of the ROW will not exceed 100 ft. The characteristics of the corridor are further described below:

St. Cloud East Substation to Northeast Connector Expressway

The corridor originates at the existing St. Cloud East Substation and initially travels north, co-located with the St Cloud East to St. Cloud North 69-kV transmission line ROW, which is shown in Figure 2-3 as the existing OUC 28/29 transmission line ROW. For a distance of approximately 0.12 mile between the substation and Old Melbourne Highway (CR 500A), the corridor width is 225 ft. North of Old Melbourne Highway, the corridor width varies between 150 ft and 200 ft. The corridor continues north and east, co-located with the existing 69-kV transmission line ROW through the Lake Lizzie Conservation Area, for approximately 2.8 miles, then continues north for another 1.1 miles, crossing Nova Road. The corridor continues north approximately 0.6 mile co-located with the C-32C Canal/Sungrove Lane to reach the intersection with the proposed Northeast Connector Expressway.

Northeast Connector Expressway to Cyrils Bypass Road

At the intersection of the C-32C Canal/Sungrove Lane and the proposed Northeast Connector Expressway, the corridor traverses northwest along the proposed Northeast Connector Expressway for approximately 4.0 miles with a variable width ranging from approximately 500 to 700 ft, until it intersects with the proposed Cyrils Bypass Road. However, before the corridor leaves Osceola County, in the area just west of Lake Myrtle, the corridor expands to 1,250 ft to accommodate a planned water treatment facility to be constructed by Tavistock East Services. The location of the future water treatment plant is shown in Figure 2-3 (pages 16, 17, and 18 of 42). At the intersection of the proposed Northeast Connector Expressway and Cyrils Bypass Road, the corridor expands to approximately 4,500 ft, as shown in Figure 2-3 (page 20 of 42) to avoid areas of residential development proposed near the intersection. OUC proposes to install approximately 0.6 miles of the transmission line underground to further reduce the potential impacts of the Project in this area.

Cyrils Bypass Road to Sunbridge Parkway and Wewahootee Road

After the interchange between the proposed Cyrils Bypass Road and Northeast Connector Expressway, the corridor turns east with a width of 1,250 ft co-located with the proposed Cyrils Bypass Road for approximately 1.7 miles to the intersection with the proposed Sunbridge Parkway approximately 0.3 miles south of the Orange County line. The corridor then continues north for approximately 5.8 miles with a width of 500 ft co-located with the Sunbridge Parkway to reach the intersection with Wewahootee Road.

Wewahootee Road to OUC's Magnolia Ranch-Stanton ROW

At the intersection of the proposed Sunbridge Parkway and Wewahootee Road, the 500-ft wide corridor turns west, co-located with both Wewahootee Road and an existing distribution line ROW. The corridor

continues west approximately 0.55 mile, until merging slightly south to co-locate within OUC's Magnolia Ranch-Stanton transmission line ROW.

Magnolia Ranch-Stanton ROW to Magnolia Ranch North Substation

At the intersection of Wewahootee Road and the existing Magnolia Ranch-Stanton transmission line ROW, the corridor reduces to a width of 300 ft and traverses southwest within the Stanton-Taft transmission line ROW for approximately 3 miles to the Magnolia Ranch North Substation.

2.3 Alternative Corridors and Proposed Intermediate Substations

No alternate corridors have been proposed. OUC is not proposing any intermediate substations for the Project.

2.4 Social and Political Environment of the Corridor Area

2.4.1 Governmental Jurisdictions

The proposed corridor crosses through portions of unincorporated Orange County, the incorporated City of Orlando, and unincorporated Osceola County. Figure 2-4 depicts the governmental jurisdictions crossed by or located within 0.5 mile of the proposed corridor. Conservation areas are further described in Section 2.4.4.

None of the following features or governmental jurisdictions are located within the proposed corridor or within 0.5 mile of the proposed corridor:

- National Parks
- National Forests
- National Seashores
- National Memorials or Monuments
- National Historic Landmarks
- Marine Sanctuaries
- Estuarine Sanctuaries
- Roadless Area Review and Evaluation Areas
- National Wild and Scenic Rivers
- Critical Habitat of Endangered Species
- State Parks
- State Marine Sanctuaries
- State Forests
- State Areas of Critical State Concern
- Save Our Rivers Lands
- State Archaeological Landmarks or Landmark Zones
- Aquatic Preserves
- Florida Springs

- Florida Wild and Scenic Rivers
- Indian Reservations
- Military Reservations

The proposed corridor crosses one conservation area and park, the Lake Lizzie Conservation Area, which is managed by the Osceola County Parks Division. Areas located within 0.5 mile of the corridor include the Econlockhatchee River System, Split Oak Forest Wildlife and Environmental Area, Moss Park, Crosby Island Marsh Preserve, and the Isle of Pine Preserve. Further discussion of these areas is provided in Section 2.4.4.

2.4.2 Zoning and Land Use Plans

The following sections discuss some of the provisions in the comprehensive plans and zoning ordinances for Orange County, Osceola County, and the City of Orlando (i.e., the local governmental jurisdictions through which the proposed corridor traverses). However, local permitting and review procedures are superseded by the TLSA review process, pursuant to Section 403.536(1), F.S. Further, local government's nonprocedural requirements for new "development" are not applicable to the Project because the construction of the transmission line on established or to-be-established ROWs or corridors does not constitute development, as defined in Sections 163.3164(14) and 380.04(3)(b), F.S.

2.4.2.1 State Community Planning Act

On June 2, 2011, the Florida Local Government Comprehensive Planning and Land Development Regulation Act was re-designated as the Community Planning Act. Under the new act, each county and municipality in Florida is still required to adopt a local comprehensive plan that complies with the Florida Statutes. Although some provisions of the act have been repealed or amended, comprehensive plans that were adopted prior to June 2, 2011 are still valid. The Community Planning Act provides long-range policy guidance for orderly social, economic, and physical development within the State. The Community Planning Act does not create regulatory authority that is not otherwise authorized by State law.

2.4.2.2 Comprehensive Plans

The overall length of the Project is approximately 21 miles and it traverses portions of two counties (Osceola and Orange). The proposed corridor also traverses a portion of the City of Orlando. The identified counties and municipality have adopted comprehensive plans in accordance with the requirements of the Community Planning Act (Chapter 163, F.S., as amended) and the minimum criteria rule for local government comprehensive plans (Chapter 9J-5, F.A.C., as amended). Figure 2-4 depicts the location of the corridor in relation to the identified governmental entities. The proposed corridor and an area extending 0.5 mile on either side of the proposed corridor are shown on aerial photographs at a scale of 1:24,000 in Figure 2-3. Future land uses in the corridor and surrounding 0.5-mile area are illustrated in Figure 2-5. Appendix B contains reproductions of the relevant future land use maps. The relevant future land use categories that are within the proposed corridor are identified below for

informational purposes only. Appendix B also contains excerpts from the comprehensive plans concerning each of the land use categories discussed below.

Orange County

Future land use categories are identified and defined in the Future Land Use Element of the Orange County Comprehensive Plan. Within unincorporated Orange County, the proposed corridor will traverse through the following future land use categories:

- Planned Development (PD) – The Planned Development designation allows for a mixture of uses and requires a text amendment to the County's Comprehensive Plan to establish the maximum allowed density and intensity of a specific project.
- Conservation (CON) – The Conservation designation is a permanent designation for conserving natural resources and is seen as an overlay designation.
- Rural/Agriculture (R) – Predominately found outside of the Urban Service Area, the Rural/Agriculture designation promotes the long-term viability of agricultural uses as an economic asset, while allowing single-family residences on large lots. Compatible non-residential activities may be related to agribusiness.
- Innovation Way (IW) – Innovation Way is an overlay that was established as a Planned Development, where the County envisions a large planning area that is a transit-ready, multi-model mixed-use, walkable community with sustainable economic development, adequate public infrastructure, and identified resource protection and management for environmentally sensitive areas.
- Industrial (I) – Predominately found within the Urban Service Area, the Industrial designation provides for non-residential uses that process both hazardous and non-hazardous materials, ranging from light assembly and manufacturing to chemical processing.
- Rural/Agricultural (R) – The Rural/Agricultural future land use designation promotes long-term viability of agricultural uses as an economic asset, while allowing single family residential on large lots. Compatible non-residential activity may be related to agribusiness.

The Future Land Use Element (Policy FLU1.4.22) of the Orange County Comprehensive Plan states that "utilities and public facilities, and all pipes and lines associated with such utilities and facilities, shall be allowed in all future land use designations." However, all applicable laws and regulations, including zoning restrictions, must be met by any utility project. Since OUC will construct, operate, and maintain the proposed transmission line in compliance with all applicable laws, the Project is consistent with Orange County's comprehensive plan.

City of Orlando

Future land use categories are identified and defined in the Future Land Use Element of the City of Orlando Comprehensive Plan. Within the boundaries of the incorporated City, the proposed corridor will traverse through the following future land use categories:

- Conservation - The Conservation Use future land use designation serves to protect and retain wetlands.
- Community Activity Center – The Community Activity Center future land use designation provides for concentrated areas of the community, serving commercial, office, residential, recreational, and cultural facilities, at higher intensities than in surrounding neighborhoods. Within these areas a mixture of land uses is specifically encouraged. These areas are intended for locations where a combination of intermediate and lower levels of roadways and mass transit service is available.
- Office Low Intensity – The Office Low Intensity future land use designation provides areas within the city for the following uses: residential; childcare; medical/dental labs and offices; governmental offices; business and professional offices; business services; and temporary professional services.
- Industrial – The Industrial future land use designation provides areas within the city for warehouses, trade shops, heavy equipment rental shops, showrooms, industrial laboratories, animal slaughterhouses, and steel fabrication plants.

The City's Comprehensive Plan does not identify electric transmission lines, and it does not discuss the applicability of electrical transmission lines within its designated future land use categories. The City's plan only discusses above-ground utilities in the Urban Design Element, Objective 7.3, which states the need to work with OUC to establish an annual priority list of undergrounding or relocating overhead electric utilities.

Osceola County

Future land use categories are identified and defined in the Future Land Use Element of the Osceola County Comprehensive Plan. Within unincorporated Osceola County, the proposed corridor will traverse through the following future land use categories:

- Natural Resource Utilization (NRU) - The Natural Resource Utilization future land use designation is presented as a mechanism for managing the land use impacts or natural resource decisions that are efficient and environmentally responsible. This designation is the County's attempt to provide for the "reasonable utilization of the resource," while remaining consistent with applicable regulatory statutes.
- Mixed Use – The Mixed Use future land use designation is the only urban land use allowed within the Urban Expansion Area of the Urban Growth Boundary. The

designation is intended to promote a balanced mix of activities, residences, shops, schools, workplaces, parks, etc. The development opportunities afforded by the designation provide a wide range of densities and intensities.

- Conservation (CON) – The Conservation future land use designation provides for the preservation and protection of the County's valuable natural resources on public and private lands. These lands may also be suitable for passive recreation, but they are not managed for active recreation and do not provide facilities and services typically associated with active recreational areas. Privately owned lands, such as wetlands mitigation banks, Regional Offsite Mitigation Areas, and environmentally sensitive properties owned by the Florida Audubon Society, Nature Conservancy or similar types of non-profit entities, may be designated as Conservation so long as formal consent is provided.
- Low Density Residential (LDR) – The Low Density Residential future land use designation is for newly developing residential areas within the Urban Infill Area of the Urban Growth Boundary. The designation is intended primarily for single-family residential neighborhoods, which may include detached or attached housing, with integrated neighborhood support uses such as schools, parks, and places of worship.
- Rural Settlement (RS) – The Rural Settlement future land use designation is intended to preserve historic communities outside of the Urban Growth Boundary and provide opportunities for a rural residential lifestyle with a maximum density of two dwelling units per acre, including ancillary nonresidential support uses.
- Rural/Agricultural (RA) – The Rural/Agricultural future land use designation provides for the continuation of agricultural production and supporting land uses outside of the Urban Growth Boundary.
- Harmony (HAR) – The Harmony Rural Community was established to provide for a balanced mix of land uses that are linked to a pedestrian-oriented town center. This community is based on a Master Development Plan and must be bordered by complementary land use designations, which provide a clear distinction between this new community and surrounding land uses. The community provides residential, commercial, office, and industrial uses.

As stated in the Future Land Use Element (Policy 6.21) of the Osceola Comprehensive Plan, conservation and agricultural lands may incorporate transportation and utility corridors as identified, designed, permitted, and subsequently approved by governing regulatory authorities. Such corridors should be designed and located in a manner to avoid or minimize impacts to applicable conservation lands and/or management plans. Since OUC's proposed transmission line is subject to approval by all of the governing regulatory authorities that have jurisdiction over the Project, and the proposed corridor

has been designed and located to avoid and minimize impact to applicable conservation land and management plans, OUC's proposed Project is consistent with Osceola County's comprehensive plan.

2.4.2.3 Zoning and Land Use Regulations

Figure 2-4 depicts the location of the proposed corridor in relation to the jurisdictional boundaries of Osceola County, Orange County, and the City of Orlando. The zoning designations that are traversed by the corridor or included within an area extending 0.5 mile on either side of the corridor are shown on aerial photographs at a scale of 1:24,000 in Figure 2-6. Appendix C contains reproductions of the relevant zoning maps and excerpts from the three zoning codes concerning each of the zoning categories discussed below.

The land development regulations and ordinances adopted by Orange County, Osceola County, and the City of Orlando are summarized and discussed in the following paragraphs. As stated in Section 5.0 of this Application, OUC is not aware of any variances, exceptions, or exemptions from local regulations that are needed for the construction, operation, or maintenance of the Project.

Orange County

Within unincorporated Orange County, the Project will traverse through the following zoning districts: Planned Development (PD), Farmland Rural (A-2), and Residential (R-CE-2-C).

Chapter 15 (Article V) of the Orange County Code of Ordinances addresses noise control in order to prevent, prohibit and provide for the abatement of excessive and unnecessary noise and to protect the health, safety and general welfare of the people of Orange County. Section 15-180(b)(17) of the Orange County Code defines noise as any sound produced in such quantity and for such duration that it annoys, disturbs, or injures a reasonable individual of normal sensitivities, and exceeds the sound level limits specified in Article V or is plainly audible. However, Section 15-185(12) of the Orange County Code provides that approved construction activities are exempt from the County's noise requirements, provided such activity occurs between 7 AM and 10 PM. Thus, the construction of the Project between 7 AM and 10 PM will be exempt from the County's noise limits.

Chapter 15 (Article VIII) of the Orange County Code of Ordinances addresses tree and vegetation removal. Pursuant to Section 15-278(a) of the Code, it is unlawful for any person to remove any protected tree without first obtaining a tree removal permit or other authorization or establishing that the removal of the protected tree qualifies for an exception or exemption. A protected tree is defined in Section 15-277 as any tree that is on the County's recommended stock list and located in one of the protection zones described in Section 15-301(e). The recommended stock list in Section 15-283(a) identifies trees that are native to the region or have proven their performance in central Florida. Section 15-279(a)(1) provides that a tree removal permit is not required for tree removal activities conducted in a public road or public drainage ROW, utility ROW, or permanent utility easement, unless the area is designated as a conservation area. Conservation areas are defined in Section 15-277 as lands that

have unsuitable or nonrated soils, wetland vegetative species, are seasonally flooded, and perform an environmental function, as described in the County's comprehensive policy plan. Thus, OUC will not need authorization from Orange County for the removal of trees located in the Project's transmission line ROW, unless the tree is located in a conservation area in Orange County. If such circumstances arise, OUC will provide the relevant information to the County in a post-certification submittal in compliance with the conditions of certification.

Section 21-5(a) of the Orange County Code prohibits cutting or destroying any shade tree, unless such actions are approved by the County. However, Section 21-5(c)(2) of the County Code provides that the normal trimming of a shade tree is exempt from the County's prohibition if such trimming is required to ensure the safe operation of a utility facility and such trimming is performed by the utility company in accordance with the provisions of its utility accommodations guide. Accordingly, Section 21-5(a) of the Orange County Code does not prohibit OUC from cutting shade trees while OUC constructs and maintains the proposed Project.

The location, installation, and adjustment of any facility on a county ROW or easement is regulated under Chapter 21 (Article VI) of the Orange County Code of Ordinances. The County's regulation applies to all private contractors, private citizens, utility companies, municipalities and any other person or group proposing to install, construct, maintain or repair any facility or structure within any of the County's existing or planned ROWs, as specified in Section 21-172. In Section 21-173, a facility is defined to mean a structure that has been and/or is being placed and maintained along, across, on or under any road ROW within the jurisdiction of the County, including but not limited to any electric transmission lines. Section 21-196 requires the submittal of an application to the county engineer when seeking a right-of-way utilization permit. The application must be accompanied by a sketch and other information concerning the proposed activity, including the minimum vertical clearance above the pavement of the County road. For the proposed Project, such information would be provided to the County in a post-certification submittal, pursuant to the conditions of certification.

Section 21-231(a) of the Orange County Code states that the primary concern in the design and location of utility installations is the protection of the ROW and the safety of highway users. Section 21-231 also contains the following requirements: (a) above-ground facilities should be placed at or as close as practical to the ROW line; (b) if an entity owns or maintains one or more sets of poles with accompanying overhead lines along a ROW or road, and the entity proposes to install another set of poles along the same ROW or road, all of the overhead lines shall be co-located on a single set of poles along one side of the ROW or road, and the entity shall use the least number of poles and the shortest poles feasible, and the poles shall be of uniform height; (c) if the entity owns or maintains more than one set of poles with accompanying overhead lines along a ROW or road, and the entity is required to remove and relocate some or all of the poles and accompanying overhead lines due to roadway construction along one or both sides of the ROW or road, the entity shall co-locate all the lines on a single set of poles along one side of the ROW or road and use the least number of poles, the lowest

height of poles, and poles of uniform height. Section 21-233(e) of the County Code provides that all overhead installations must comply with the current standards established by the FDOT. All poles or other structures used to support aerial installations must be installed at the ROW line, or as close as practical.

Osceola County

Within unincorporated Osceola County, the Project will traverse through the following zoning districts: Mixed Use (MXD), Rural (AC), Residential (R-1M, RMH-1, R-1, RS-3, RS-2, R-2), Institutional (IN), Urban Settlement (US), and Estate (E-1A).

Osceola County regulates the location, installation, and adjustment of any facility on a county ROW or easement pursuant to Section 4.12.2 of the Osceola County Land Development Code. This regulation applies to all private contractors, private citizens, utility companies, municipalities, and any other person or group proposing to install, construct, maintain or repair any facility or structure within any of the existing or planned ROWs, public easements, or stormwater tracts that are dedicated or planned to be dedicated to the public or Osceola County. The regulations also discuss siting procedures and pole placement involving county ROWs. Section 4.12.2(G)(1)(b) states that, where possible, aboveground facilities should be placed at or as close as practical to the ROW line and should take into consideration future road widening projects and the construction of sidewalks, storm drainage, or other facilities.

Section 4.8.5 of the Osceola County Land Development Code states that proposed overhead utility service facilities within the County's Urban Growth Boundary must be designed to provide clearance from the mature height of trees and landscaping.

The Osceola County Noise Control Ordinance is contained in Chapter 9 (Article IV) of the Osceola County Code of Ordinances. In Section 9-106 (Definitions), noise is defined as any sound which annoys or disturbs humans, or which causes or tends to cause an adverse psychological or physiological effect on humans. Section 9-110 (a) provides that no person should create, or cause to be created, any sound level beyond their property line that exceeds 55 dB (A-scale) between 7 AM and sunset or 45dB (A-scale) at any other time. However, Section 9-110(h)(12) provides that the sound limits do not apply to lawful construction activity conducted between the hours of 7 AM and sunset. Consequently, the Osceola County Noise Control Ordinance will not apply to the construction of the Project between 7 AM and sunset.

City of Orlando

Within incorporated City of Orlando, the Project will traverse through the Planned Development zoning district.

The City of Orlando regulates noise under Chapter 42 of the City Code. Section 42.04 of the City Code prohibits any person from producing noise that exceeds certain specified limits. The lowest limits are

55 dBA/60dBC, which applies to residential property from 10 PM until 7 AM. However, Section 42.06(1) provides an exemption for noises from temporary construction and maintenance activities between 7 AM and 9 PM, except Sundays and federal holidays. Consequently, the City of Orlando's noise ordinance will not apply to the construction or maintenance of the Project during normal days and hours of construction.

Other Applicable Regulations

There are no federal or state noise regulations or standards that are applicable to the Project.

As noted above, noise ordinances have been adopted in Orange County, Osceola County, and the City of Orlando. In the two counties, the local noise ordinance will not apply to the sounds generated by the construction of the Project, provided construction does not occur after sunset in Osceola County or after 10 PM in Orange County. Similarly, the City of Orlando's noise ordinance will not apply to the construction or maintenance of the Project, if the construction activities are halted by 9 PM and limited to Monday through Saturday, excluding federal holidays. OUC anticipates that it will be able to conduct its construction and maintenance activities in compliance with these three ordinances. If unanticipated conditions arise that require construction at other times, OUC will file a post-certification submittal with the necessary agencies pursuant to the conditions of certification.

2.4.3 Easement, Title, Agency Works

Entities that would normally be contacted for permits or approvals to cross existing facilities include county and municipal governments for owned and maintained roads and utility lines. Crossing of federal or state highways would typically require approval from the FDOT. Crossings of state and local roads by the Project will conform to the specifications in the FDOT's Utility Accommodation Guide or local standards for use of the ROW.

Table 2-3 identifies the roads, canals, and utilities that the Project will cross, the agency that will regulate each crossing, and the type of approval that typically is required. Notification and coordination are usually sufficient when crossing facilities owned by other utilities.

2.4.4 Vicinity Scenic, Cultural, and Natural Landmarks

As identified in Section 2.4.1 of this Application, the proposed corridor crosses the Lake Lizzie Conservation Area. Although not located within the proposed corridor, other scenic, cultural, and natural landmarks located in the vicinity include the Econlockhatchee River System, Split Oak Forest Wildlife and Environmental Area, Moss Park, Crosby Island Marsh Preserve, and the Isle of Pine Preserve. Further discussion of these areas is provided below; their locations relative to the proposed corridor are illustrated in Figure 2-4.

The Lake Lizzie Conservation Area is approximately 1,076 acres of conservation lands that consist of parcels purchased with funds from the state Conservation and Recreation Lands Program and the Environmental Lands Conservation Program. The preserve is located on Lake Lizzie, Bay Lake and

Trout Lake in the Upper Kissimmee Chain of Lakes. The Lake Lizzie Conservation Area is managed by the Osceola County Parks Division and is open to the public for passive recreational use. The existing St. Cloud East to St. Cloud North 69-kV transmission line is located near the southern and western boundaries of the Lake Lizzie Conservation Area.

The Econlockhatchee River System, located east of the proposed corridor, has been designated by the FDEP as an Outstanding Florida Water pursuant to Section 403.061(28), Florida Statutes, which notes that such waterbodies are "worthy of special protection because of their natural attributes." The river basin stretches across Osceola, Orange, and Seminole Counties and provides recreational opportunities for hiking, canoeing, camping, fishing, horseback riding, and biking.

The Split Oak Forest Wildlife and Environmental Area (SOFWEA) comprises 1,689 acres located near the proposed corridor in the vicinity of the intersection of the proposed Sunbridge Parkway and Cyrils Bypass Road. It is owned by Orange and Osceola counties and managed by the FWC to conserve and restore natural wildlife habitat for a wide range of imperiled wildlife species but is primarily focused upon the gopher tortoise. The area was acquired and conserved in part with funding from the FWC Gopher Tortoise Mitigation Program, wetland mitigation funds, and grant funding from the Florida Community Trust Program to conserve natural resources and provide public recreation opportunities such as hiking, wildlife viewing, and environmental education.

Moss Park is a 1,551-acre park located between Lake Mary Jane and Lake Hart, to the northeast of the SOFWEA and west of the proposed corridor. Moss Park is managed by the Orange County Parks and Recreation Department. The park provides 54 RV/tent campsites and five primitive group tent campsites for camping. The park also provides for other public recreational uses, such as hiking, wildlife observation, swimming, boating, and fishing.

Crosby Island Marsh Preserve is a 277-acre park managed by the Orange County Parks and Recreation Department. It is located north of Moss Park and west of the proposed corridor. Crosby Island Marsh Preserve was purchased in 2004 in conjunction with the SFWMD to preserve the County's natural resources and contribute to a 3,000-acre wildlife corridor. A portion of the preserve was dedicated to the U.S. Forest Service for the Florida National Scenic Trail. The area offers hiking trails, picnic areas, and passive recreational uses.

The Isle of Pine Preserve is a 464-acre park located adjacent to Lake Mary Jane and managed by the Orange County Environmental Protection Division. The preserve is west and northwest of the proposed corridor at the location where the corridor crosses the Orange County/Osceola County line. The preserve is dominated by upland pine flatwoods, scrub forest, and cypress domes, and offers public recreational opportunities, including hiking and horseback riding trails and picnic areas.

2.4.5 Archaeological and Historic Sites

On April 2, 2019, the Florida Department of State, Division of Historical Resources (DHR), was contacted and asked to identify any historical resources located within the vicinity of the Project's study area. In response, DHR provided a letter (dated April 29, 2019) stating that the Project is unlikely to affect historic properties. A copy of DRH's letter is provided in Appendix D. A desktop cultural resource study of the proposed corridor was subsequently conducted in October 2020. The desktop study included a review of the Florida Master Site File (FMSF) database for the location of previously recorded cultural resources, such as archaeological sites, historic structures, linear resources, historic cemeteries, and bridges within or near the proposed corridor. According to the state records, there are four archaeological sites, two historical structures, and one resource group within or near the corridor. Each of these cultural resources are described below. The locations of these cultural resources are shown in Figure 1 in Appendix D.

Archaeological Sites:

- 8OR00385 – located near the corridor in Orange County; prehistoric artifact scatter; this resource has been deemed ineligible for NHRP listing by the DHR.
- 8OR00391 – located within the corridor in Orange County; prehistoric artifact scatter; this resource has not been evaluated by the DHR.
- 8OR02190 – located outside the corridor in Orange County; prehistoric artifact scatter; this resource has been deemed ineligible for NRHP listing by the DHR.
- 8OR02208 – prehistoric artifact scatter that extends into the corridor in Orange County. This prehistoric artifact scatter/habitation/campsite is associated with Orange, St. Johns I and II periods. The DHR has determined that insufficient information has been collected to determine this site's NRHP eligibility status.

Historic Structures:

- 8OR02206 – located outside the corridor in Orange County; ca. 1925 Magnolia Pumphouse. Deemed eligible for NRHP listing by the DHR.
- 8OR10852 – located outside the corridor in Orange County; ca. 1950 Wewahootee Road Cattle Dipping Vat. This resource has not yet been evaluated by the DHR.
- 8OR011105 – intersects with the proposed project corridor in Orange County. The Disston Canal was originally built in the late 19th century and was recorded in 2019. DHR has determined this resource to be ineligible for NRHP listing.

Resource Groups:

- 8OS02824 – this resource is a canal that intersects the proposed corridor in Osceola County. The C-30 Canal was originally built in the early 20th century. DHR has determined this resource to be ineligible for NRHP listing.

2.5 Biological and Physical Environment of the Corridor Area

Approximately 38% of the Project is located within OUC's existing transmission line ROWs and the remainder is co-located along existing and proposed public and private roadways and canals, including Wewahootee Road, the C-32C Canal/Sungrove Lane, proposed Sunbridge Parkway, proposed Cyrils

Bypass Road, and proposed Northeast Connector Expressway. Most of the existing transmission line ROWs were previously cleared of canopy species, and where necessary, fill was placed for the construction of elevated access roads and pads for the installation of transmission structures. Based on OUC's discussions with representatives of the Sunbridge Parkway development team, it is anticipated that the construction of the Sunbridge Parkway will be completed before OUC begins the construction of the Project.

2.5.1 Land Use/Vegetation

The existing land use and vegetation cover types in the proposed corridor and within 0.5 mile of the corridor are identified on Figure 2-7 and classified in accordance with the FDOT's Florida Land Use, Cover and Forms Classification System (FLUCFCS), utilizing the land use/land cover data from the SJRWMD and the SFWMD. This data has been revised as necessary based on field reconnaissance.

Table 2-4 identifies the acreage of dominant vegetative communities and land uses within the approximately 1,485-acre proposed corridor. Primary land uses within the corridor and vicinity include cattle pasture (FLUCFCS 211), roads and highways (FLUCFCS 814), railroads (FLUCFCS 812), and electric transmission line ROWs (FLUCFCS 832). Vegetative communities within and adjacent to the corridor are dominated by areas of pasture and abandoned citrus grove, (FLUCFCS 211, 212, 213, 224), dry shrub and brushland (FLUCFCS 320), upland forest (FLUCFCS 411, 413, 420, 421 and 434), forested wetlands (FLUCFCS 617, 621, and 630) and herbaceous wetlands (FLUCFCS 641 and 643). The vegetative community composition and ecological characteristics for each dominant habitat type within the corridor are described below.

Improved Pasture, Unimproved Pasture, Woodland Pasture and Abandoned Citrus Grove (FLUCFCS 211, 212, 213 and 224) – Approximately 275.3 acres of improved, unimproved, and woodland pasture and abandoned citrus grove occur within the corridor. Typically, these pasture areas have been cleared of native vegetation and replanted with Bahia grass (*Paspalum notatum*) to support cattle grazing, with areas classified as woodland pastures containing a greater density of remaining canopy species. Scattered trees and shrubs occur within the pastures, including slash pine (*Pinus elliottii*), live oak (*Quercus virginiana*), laurel oak (*Quercus laurifolia*), cabbage palm (*Sabal palmetto*), wax myrtle (*Myrica cerifera*), saw palmetto (*Serenoa repens*), and groundsel tree (*Baccharis halimioflia*), as well as a variety of common herbaceous species, such as broomsedge bluestem (*Andropogon virginicus*), dogfennel (*Eupatorium capillifolium*), slender flattop goldenrod (*Euthamia caroliniana*), carpet grass (*Axonopus* sp.), and blackberry (*Rubus cuneifolius*). Unimproved pastures primarily contain a mixture of native grasses, rather than a uniform seeded pasture crop, that have not been managed with brush control and/or fertilizer application. Citrus trees within the abandoned citrus groves have been cleared and a mixture of grasses and ruderal weedy species have become established.

Shrub and Brushland (FLUCFCS 320) – Approximately 97.8 acres of shrub and brushland occur within the corridor. These areas are generally treeless with a variety of vegetation types dominated by shrub

species, including saw palmetto, wax myrtle, gallberry (*Ilex glabra*), groundsel tree, and small oaks, as well as an understory of grasses, sedges, rushes and other herbs such as bushy bluestem (*Andropogon glomeratus*), carpet grass (*Axonopus fissifolius*), smut grass (*Sporobolus indicus*), and threeawn (*Aristida purpurascens*).

Pine Flatwoods and Sand Pine (FLUCFCS 411 and 413) – Pine flatwoods and sand pine comprise approximately 78.5 acres within the corridor. The pine flatwoods canopy is dominated by slash pine, with occasional laurel oak, and an understory dominated by saw palmetto. Additional shrub species include wax myrtle, gallberry, fetterbush (*Lyonia lucida*), blueberry (*Vaccinium* spp.), and rusty staggerbush (*Lyonia ferruginea*). Areas of sand pine are dominated by a canopy of sand pine (*Pinus clausa*) with subdominant species such as cabbage palm, sand live oak (*Quercus geminata*), myrtle oak (*Quercus myrtifolia*), and scrub oak (*Quercus inopina)*.

Xeric Oak (FLUCFCS 421) – Xeric oak comprises approximately 8.4 acres within the corridor. The canopy is dominated by sand live oak, myrtle oak, and scrub oak. Common understory species include Florida rosemary (*Ceratiola ericoides*), gallberry, rusty staggerbush, and saw palmetto.

Upland Hardwood and Hardwood-Conifer Mixed Forest (FLUCFCS 420 and 434) – Approximately 380.8 acres of upland hardwood and hardwood-conifer mixed forest occur within the corridor. Areas of upland hardwood forest are comprised of a mixture of laurel oak, live oak, cabbage palm, and water oak (*Quercus nigra*). The understory includes saw palmetto, American beautyberry (*Callicarpa americana*), wax myrtle, gallberry, and various grasses. The hardwood-conifer mixed forest contains a similar suite of species, but the canopy also supports slash pine, loblolly pine (*Pinus taeda*), and/or longleaf pine (*Pinus palustris*).

Streams and Waterways, Lakes and Reservoirs (FLUCFCS 510, 512, 523, 530, and 534) – Approximately 15.2 acres of non-vegetated water features occur within the corridor. These features include small streams, channelized waterways, Bullock Lake, cattle ponds, and reservoirs.

Ditches (*FLUCFCS 511*) – Approximately 7.1 acres of ditches are present within the corridor. They have been constructed adjacent to existing roads and across pastures to facilitate drainage. These ditches vary from deeply incised to roadside swales with a mixture of native and exotic vegetation. Regularly maintained ditches are primarily composed of herbaceous species such as pickerelweed (*Pontederia cordata*), arrowhead (*Sagittaria lancifolia*), maidencane (*Panicum hemitomon*), Peruvian primrose willow (*Ludwigia peruviana*), marsh pennywort (*Hydrocotyle umbellata*), softrush (*Juncus effusus*), swamp fern (*Blechnum serrulatum*), cattail (*Typha* spp.) and torpedo grass (*Panicum repens*). Ditches adjacent to areas of forested wetlands support some canopy and shrub species along their banks, such as pond cypress (*Taxodium ascendens*), red maple (*Acer rubrum*), blackgum (*Nyssa sylvatica*), coastal plain willow (*Salix caroliniana*), and groundsel tree.

Mixed Wetland Hardwoods (FLUCFCS 617) – Approximately 21.3 acres of mixed wetland hardwoods occur within the corridor. These forested wetlands are dominated by a canopy of red maple, sweet bay (*Magnolia virginiana*), blackgum, sweetgum (*Liquidambar styraciflua*), laurel oak, dahoon holly (*Ilex cassine*), loblolly bay (*Gordonia lasianthus*), and cabbage palm. Shrub and herbaceous species in these areas include softrush, buttonbush (*Cephalanthus occidentalis*), coastal plain willow, wax myrtle, Virginia chain fern (*Woodwardia virginica*), arrowhead, sedges (*Cyperus* spp.), and pickerelweed.

Cypress (FLUCFCS 621) – Cypress dominated wetlands comprise approximately 68 acres within the corridor. The canopy is comprised of pond cypress, with subdominant species including red maple, blackgum, sweet bay, slash pine, laurel oak, and dahoon holly. A mixture of wetland shrubs and herbaceous species comprise the understory, including Virginia chain fern, swamp fern, sawgrass (*Cladium jamaicense*), wax myrtle, softrush, sedges, arrowhead, and pickerelweed.

Mixed Wetland Forest (FLUCFCS 630) – Mixed wetland forest comprises approximately 289.5 acres within the corridor. This wetland type contains a similar composition as described above for mixed wetland hardwoods, but with the addition of slash pine and pond cypress as common canopy components, as well as occasional cabbage palm and live oak.

Freshwater Marsh (FLUCFCS 641) – Freshwater marshes comprise approximately 88.4 acres within the corridor. The vegetative community composition is dominated by a mixture of native and exotic herbaceous species, such as soft rush, smartweed, bushy broomsedge, sawgrass, sugarcane plume grass (*Erianthus giganteus*), Peruvian primrose willow, cattail, yellow-eyed grass (*Xyris* spp.), maidencane, buttonbush, sedges (*Rhynchospora* spp.), arrowhead, pickerelweed, Virginia chain fern, pipewort (*Eriocaulon* sp.), marsh pennywort, lemon bacopa (*Bacopa caroliniana*), duckweed (*Lemna* spp.), mosquito fern (*Azolla caroliniana*), and water spangles (*Salvinia rotundifolia*).

Wet Prairie (FLUCFCS 643) – Approximately 16.8 acres of wet prairies occur within the corridor. These areas are underlain by hydric soils and support hydrophytic vegetation, but typically are infrequently inundated, with shallow standing water for only a portion of the year. Common vegetative species within these wet prairies include yellow-eyed grass, softrush, maidencane, sundew, torpedo grass, pipeworts, mermaidweed (*Proserpinaca pectinata*), St. John's wort, and occasional arrowhead and pickerelweed.

2.5.2 Affected Waters and Wetlands

Surface waters and wetlands within the corridor are identified in Figure 2-9. Descriptions of wetland types and vegetative communities are provided in Section 2.5.1.

The corridor does not cross any named streams. Sections 62-302.400(17)(b)48 and 49, F.A.C., indicate that there are no designated Florida Class I or II waters within Orange County or Osceola County and, thus, there are none in the corridor. Waters crossed by the corridor are considered Class III waters, which means they are of sufficient quality to support fish and wildlife populations. The corridor crosses over the C-32C Canal that connects Trout Lake and Lake Joel, the eastern edge of Bullock Lake north

of Lake Joel, the C-30 Canal that connects Lake Myrtle and Lake Mary Jane, and the Disston Canal at TM Ranch Road.

The proposed corridor follows existing transmission line ROWs for approximately 38% of its length and existing and proposed public roadways and canals for the remainder. Consequently, many of the wetlands within the corridor were previously impacted by the construction of existing access roads or will be impacted by the construction of the proposed Sunbridge Parkway prior to the construction of the Project. The existing access roads include culverts to maintain wetland hydrology and sheet flow. New access roads and improvements to existing roads will include the appropriate number and size culverts necessary to maintain wetland and surface water hydrology.

Additional wetland fill and canopy clearing will be required to construct the Project. A preliminary assessment of the amount and type of wetland impact has been prepared, based on a conceptual ROW and a conceptual layout for the transmission line. This preliminary assessment is provided in Section 3.2. Detailed design information, including the specific location and extent of all wetland impacts, and a determination of the appropriate mitigation to offset wetland functional loss, will be provided to the appropriate agencies prior to construction of the Project.

2.5.3 Ecology

Ecological resources within the proposed corridor and vicinity (quarter mile) were evaluated utilizing a combination of field reconnaissance, database queries, aerial maps, and literature review. Prior to field reconnaissance, county-specific lists of threatened and endangered species were obtained from the FNAI (FNAI, 2020). In addition, element occurrence data were obtained from the FNAI, which maintains a database of known occurrences of threatened and endangered (listed) species throughout the state of Florida. Listed plant species are those plants that are listed by the U.S. Fish and Wildlife Service (USFWS) or the FDACS as endangered, threatened, of special concern, or commercially exploited. Listed animal species are those animals that are listed as endangered, threatened, or of special concern by the USFWS or the FWC. The FNAI database was queried to identify documented locations of listed species within the corridor and vicinity. Listed and non-listed wildlife species observed during field surveys conducted between July and September 2020 were recorded. The field surveys were supplemented with evaluations of habitat conditions suitable for listed species because these evaluations may help identify additional species that were not observed but are likely to occur.

A variety of wildlife species typically found in upland forest and wetland habitats of central Florida are likely to occur within the proposed corridor. A description of non-listed wildlife species observed or expected to occur within the various habitat types is provided below.

Pastures and abandoned grove (FLUCFCS 211, 212, 213 and 224) – Pastures and groves provide limited foraging and breeding/nesting opportunities for many wildlife species, due to a variety of factors such as low diversity of native vegetative forage and insect prey, lack of protection from predators, and frequent disturbances from agricultural operations. Non-listed wildlife likely to occur in pastures within

the corridor include common avian species such as eastern meadowlark (*Sturnella magna*), cattle egret (*Bubulcus ibis*), killdeer (*Charadrius vociferus*), northern bobwhite (*Colinus virginianus*), wild turkey (*Meleagris gallopavo*), red-shouldered hawk (*Buteo lineatus*), red-tailed hawk (*Buteo jamaicensis*), American crow (*Corvus brachyrhynchos*), fish crow (*Corvus ossifragus*), barn swallow (*Hirundo rustica*), tree swallow (*Tachycineta bicolor*), Eastern phoebe (*Sayornis phoebe*), loggerhead shrike (*Lanius ludovicianus*), savannah sparrow (*Passerculus sandwichensis*), brown-headed cowbird (*Molothrus ater*), black vulture (*Coragyps atratus*), turkey vulture (*Cathartes aura*), and northern mockingbird (*Mimus polyglottos*). Common mammalian wildlife observed or likely to occur within pasture areas include white-tailed deer (*Odocoileus virginianus*), coyote (*Canis latrans*), feral hog (*Sus scrofa*), and nine-banded armadillo (*Dasypus novemcinctus*).

Upland Forest (FLUCFCS 411, 413, 420, 421, and 434) – Areas of upland forest within the proposed corridor provide suitable foraging and/or breeding/nesting habitat for non-listed avian species such as wild turkey, swallow-tailed kite (*Elanoides forficatus*), Mississippi kite (*Ictinia mississippiensis*), Cooper's hawk (*Accipter cooperii*), red-shouldered hawk, eastern screech owl (*Megascops asio*), barred owl (*Strix varia*), downy woodpecker (*Picoides pubescens*), red-bellied woodpecker (*Melanerpes caroliniana*), pileated woodpecker (*Hylatomus pileatus*), yellow-bellied sapsucker (*Sphyrapicus varius*), great-crested flycatcher (*Myiarchus crinitus*), white-eyed vireo (*Vireo griseus*), yellow-throated vireo (*Vireo flavifrons*), red-eyed vireo (*Vireo olivaceous*), blue-headed vireo (*Vireo solitarius*), blue jay (*Cyanocitta cristata*), Carolina chickadee (*Poecile carolinensis*), tufted titmouse (*Baeolophus bicolor*), Carolina wren (*Thryothorus ludovicianus*), blue-gray gnatcatcher (*Polioptila caerulea*), ruby-crowned kinglet (*Regulus calendula*), veery (*Catharus fuscescens*), Swainson's thrush (*Catharus ustulatus*), gray-cheeked thrush (*Catharus minimus*), hermit thrush (*Catharus guttatus*), American robin (*Turdus migratorius*), gray catbird (*Dumatella carolinensis*), ovenbird (*Seiurus aurocapilla*), worm-eating warbler (*Helmitheros vermivorum*), Tennessee warbler (*Oerothlypis peregrina*), American redstart (*Setophaga ruticilla*), blackburnian warbler (*Setophaga fusca*), yellow-throated warbler (*Setophaga dominica*), chestnut-sided warbler (*Setophaga pensylvanica*), magnolia warbler (*Setophaga magnolia*), black-throated blue warbler (*Setophaga caerulescens*), black-and-white warbler (*Mniotilta varia*), pine warbler (*Setophaga pinus*), yellow-rumped warbler (*Setophaga coronata*), northern parula (*Setophaga americana*), northern cardinal (*Cardinalis cardinalis*), American crow (*Corvus brachyrhynchos*), mourning dove (*Zenaida macroura*), and summer tanager (*Piranga rubra*). Common mammalian species observed or likely to occur include gray squirrel (*Sciurus carolinensis*), raccoon (*Procyon lotor*), striped skunk (*Mephitis mephitis*), gray fox (*Urocyon cinereoargenteus*), bobcat (*Lynx rufus*), feral hog, white-tailed deer, and nine-banded armadillo, while a variety of herpetofauna are likely to occur within upland forests within the corridor, including yellow rat snake (*Pantherophis alleghaniensis*), southern black racer (*Coluber constrictor priapus*), Florida rough green snake (*Opheodrys aestivus carinatus*), dusky pygmy rattlesnake (*Sistrurus miliarius barbouri*), ring-necked snake (*Diadophis punctatus*), southern toad (*Anaxyrus terrestris*), oak toad (*Anaxyrus quercicus*), Cuban brown anole (*Anolis sagrei*), and green anole (*Anolis caroliniana*).

Forested Wetlands (FLUCFCS 617, 621, and 630) – Forested wetlands within the proposed corridor provide suitable forage and breeding/nesting habitat for avian species, mammals, and herpetofauna. Non-listed terrestrial species likely to occur with these habitats include a variety of avian species, such as swallow-tailed kite, red-shouldered hawk, eastern screech owl, barred owl, red-bellied woodpecker, pileated woodpecker, yellow-bellied sapsucker, Acadian flycatcher (*Empidonax virescens*), blue jay, tufted titmouse, Carolina chickadee, Carolina wren, blue-gray gnatcatcher, ruby-crowned kinglet, black-and-white warbler, yellow-rumped warbler, Louisiana waterthrush (*Parkesia motacilla*), northern waterthrush (*Parkesia noveboracensis*), prothonotary warbler (*Protonotaria citrea*), yellow-throated warbler, northern parula, northern cardinal, red-winged blackbird (*Agelaius phoeniceus*), and common grackle (*Quiscalus quiscula*). Non-listed mammalian species include raccoon, gray squirrel, white-tailed deer, and feral hog. A variety of herpetofauna utilize forested wetlands, including water moccasin (*Agkistrodon piscivorus*), squirrel tree frog (*Hyla squirella*), southern leopard frog (*Lithobates sphenocephalus*), southern cricket frog (*Acris gryllus*), banded water snake (*Nerodia fasciata fasciata*), green tree frog (*Hyla cinerea*), Cuban brown anole, and green anole.

Non-forested Wetlands (FLUCFCS 641, and 643) – A variety of non-listed wildlife species are likely to occur within non-forested wetland areas of the corridor. These include wetland-dependent avian species such as great egret (*Ardea alba*), white ibis (*Eudocimus ibis*), green heron (*Butorides virescens*), great blue heron (*Ardea herodias*), glossy ibis (*Plegadis falcinellus*), black-crowned night heron (*Nycticorax nycticorax*), Wilson's snipe (*Gallinago delicata*), lesser yellowlegs (*Tringa flavipes*), greater yellowlegs (*Tringa melanoleuca*), least sandpiper (*Calidris minutilla*), solitary sandpiper (*Tringa solitaria*), sora (*Porzana carolina*), common gallinule (*Gallinula galeata*), belted kingfisher (*Megaceryle alcyon*), red-winged blackbird, common grackle, and boat-tailed grackle (*Quiscalus major*). Other avian species likely to occur in non-forested wetlands within the corridor include red-shouldered hawk, sedge wren (*Cistothorus stellaris*), Carolina wren, house wren (*Troglodytes aedon*), indigo bunting (*Passerina cyanea*), common yellowthroat (*Geothlypis trichas*), Louisiana waterthrush, and northern waterthrush. Mammalian species such as white-tailed deer, feral pig, and raccoon are likely to occur, along with herpetofauna such as water moccasin, pig frog (*Lithobates grylio*), leopard frog, southern cricket frog, banded water snake, green tree frog, squirrel tree frog, Cuban brown anole, and green anole.

2.5.3.1 Threatened and Endangered Species

Listed species known to occur within Osceola and Orange Counties and their likelihood of occurrence within the proposed corridor are summarized in Table 2-5. Listed species observed within the corridor or likely to occur based on the presence of suitable habitat include several species of wading birds, such as wood stork (*Mycteria americana*), little blue heron (*Egretta caerulea*), Florida sandhill crane (*Grus canadensis pratensis*), tricolored heron (*Egretta tricolor*), and roseate spoonbill (*Platalea ajaja*); as well as the gopher tortoise (*Gopherus polyphemus*), eastern indigo snake (*Drymarchon couperi*), and American alligator (*Alligator mississippiensis*). Listed plant species that may occur within the corridor based on availability of suitable habitat include many-flowered grass-pink (*Calopogon*

multiflorus), Chapman's sedge (*Carex chapmanii*), star anise (*Illicium parviflorum*), lowland loosestrife (*Lythrum flagellare*), celestial lily (*Nemastylis floridana*), hand fern (*Ophioglossum palmatum*), Florida willow (*Salix floridana*), toothed maiden fern (*Thelypteris serrata*), and redmargin zephyrlily (*Zephyranthes simpsonii*).

Documented occurrences of listed species within the corridor and surrounding vicinity based on the FNAI database, field reconnaissance, and previous studies include gopher tortoise, Florida sandhill crane, eastern indigo snake, and Florida scrub jay (*Aphelocoma coerulescens*) (Figure 2-8). Each of the species with a high likelihood of occurrence within the corridor is described below.

Wood stork (Threatened) – The wood stork is classified as threatened by the USFWS and the FWC. Wood storks utilize a variety of habitats, including cypress/gum ponds, forested wetlands, river swamps, marshes (freshwater and saltwater), and bays. The wood stork is highly gregarious in its nesting and feeding behavior. They are tactile feeders (vision is seldom used to locate or catch prey) and usually forage in shallow water (6 to 20 inches). Small fish are the primary food items, but wood storks also consume crustaceans, salamanders, tadpoles, and insects. The distance between nesting colonies and feeding areas can range to 60 miles or more, although the average distance is typically 12 to 15 kilometers (km) (7 to 9 miles) (Ogden, 1996). Colonies are typically located on coastal islands and on willow islands in swamps, cypress swamps, impoundments, and other inundated areas. Nesting has been reported throughout the year, with nests consisting of platforms of sticks formed in tall cypress trees and, less often, mangroves. Typically, three to five eggs are laid and incubate for 28 to 32 days before hatching, while the young fledge in 50 to 55 days. In central Florida, including Orange County, the area within 15 miles of a wood stork colony is considered a core foraging area (CFA). In south Florida, including Osceola County, the area within 18.6 miles is considered a CFA. The corridor is located within the CFAs of five wood stork colonies - Gatorland, Lake Mary Jane, Orlando Wetlands Park, Lake Conlin, and Lake Russell, as illustrated in Figure 2-10. Although not observed during the field reconnaissance, wood storks are likely to utilize wetlands providing suitable foraging habitat within the proposed corridor.

Little blue heron (Threatened) – The little blue heron is classified as a threatened species by the FWC but is not listed by the USFWS. The little blue heron is a medium-sized heron, with a purplish to maroon-brown head and neck, a small white patch on the throat and upper neck, and a slate-blue body. They feed in shallow freshwater, brackish, and saltwater habitats. The largest nesting colonies of little blue herons occur in coastal areas, but they prefer to forage in freshwater lakes, marshes, swamps, and streams and nest in a variety of woody vegetation types, including cypress, willow, maple, black mangrove, and cabbage palm. They usually breed in mixed-species colonies in flooded vegetation or on islands. Little blue herons are mostly resident throughout the year in central and south Florida (FNAI, 2001). Little blue herons are likely to utilize ditch and freshwater marsh habitats within the corridor.

Tricolored heron (Threatened) – The tricolored heron is classified as threatened by the FWC but is not listed by the USFWS. It is a medium-sized heron with dark slate coloration on the head, neck, and body that contrasts with the white rump, belly, and undertail. Most tricolored heron nesting colonies occur on mangrove islands or in willow thickets in fresh water, but nesting sites include other woody thickets on islands or over standing water. Tricolored herons prefer coastal environments but will feed in a variety of permanently and seasonally flooded wetlands, mangrove swamps, tidal creeks, ditches, and edges of ponds and lakes. Tricolored herons are permanent residents and are found throughout Florida in all seasons, except they are rare in winter in the western Panhandle and somewhat less common inland during winter (FNAI, 2001). No individual tricolored herons were observed within the corridor or vicinity, although it is likely that they occur based on the presence of suitable wetland habitat.

Florida sandhill crane (Threatened) – The Florida sandhill crane is classified as threatened by the FWC but is not listed by the USFWS. The Florida sandhill crane is a subspecies that is indistinguishable from the greater sandhill crane, which winters in Florida. Greater sandhill cranes generally arrive in Florida in October and leave in March. Florida sandhill cranes typically start nesting in late December and continue through June, creating nest mounds of plant material in herbaceous wetlands. The female typically will lay two eggs, which incubate for 28 to 32 days. Fledging occurs at about 67 days (FWC, 2003). Sandhill cranes were observed within the corridor during field reconnaissance in an area of pasture adjacent to freshwater marsh wetlands. They are likely to occur elsewhere in the corridor based on the presence of suitable herbaceous wetland and pasture habitat.

Roseate spoonbill (Threatened) – Roseate spoonbills are classified as threatened by the FWC and are not listed by the USFWS. Their bright pink bodies, contrasting white necks, and flat, spoon-like bills unequivocally identify the adults of this species from other long-legged wading birds (FNAI 2001). They primarily nest in mixed-species colonies in coastal areas but will occasionally utilize freshwater willow shrub marshes. Nesting occurs primarily November - March in Florida Bay and March - July in peninsular Florida. Roseate spoonbills forage in shallow water of variable salinity, including marine tidal flats and ponds, coastal marshes, mangrove-dominated inlets and pools, and freshwater sloughs and marshes. Although no individuals were observed, they may occasionally forage within suitable wetland habitats within the corridor or vicinity.

American alligator (SAT) – American alligators are classified as threatened by the FWC and USFWS due to their similarity in appearance to the endangered American crocodile (*Crocodylus acutus*). The FWC also regulates the harvesting of alligators and their eggs. Alligators nest in late spring and young hatch in the summer. Females nest along the water edge, creating a nest mound of herbaceous vegetation. Approximately 30 to 60 eggs will be laid and will incubate for two months in the decomposing vegetation. About half of these eggs will survive to maturity, with young typically hatching in mid-August through September (FNAI, 2001). Individuals were observed during field reconnaissance, and alligators are known to potentially occur in canals, ditches, and other waterbodies within the corridor and vicinity.

Gopher tortoise (Threatened) – Gopher tortoises are classified as a threatened species by the FWC due to loss of preferred habitat and are a candidate species for listing in the State of Florida by the USFWS. They are medium-sized terrestrial turtles that dig burrows for shelter, typically in dry sandy areas where the depth to the seasonal high water table is greater than 45 centimeters (FWC, 2009). Gopher tortoises are commonly found in dry upland habitats, such as sandhills, scrub, xeric oak hammock, and dry pine flatwoods. They are also found in pastures and old fields (FNAI, 2001). The breeding season for gopher tortoises is generally considered to be spring, but males may attempt to mate from April through December. During May and June, females deposit 3 to 12 eggs in the sand mounds or in other nearby open sandy sites. Incubation depends upon climate and takes from 80 to 110 days. Other listed species such as the Eastern indigo snake, gopher frog, Florida mouse, and Florida pine snake may utilize gopher tortoise burrows. Gopher tortoise burrows were observed within the corridor during field reconnaissance, and the FNAI database includes several documented observations in the vicinity of the corridor.

Eastern indigo snake (Threatened) – The Eastern indigo snake is classified as a threatened species by both the USFWS and the FWC. In peninsular Florida, the Eastern indigo snake may be found in a variety of habitats ranging from swamps to xeric pinelands and scrub (Moler, 1992). In its northern range, it is often commensal with gopher tortoises, using their burrows for shelter during the winter (FNAI, 2001). No individuals were observed within the corridor or vicinity, but they may occur based on the presence of suitable habitat and refugia in the form of gopher tortoise burrows.

Listed Plant Species – Most listed plants in Orange and Osceola Counties have only a low probability to occur within the proposed corridor due to the lack of suitable habitat, presence of existing linear facilities, and agricultural land uses. However, a few species have a moderate potential to occur within the proposed corridor. In the upland habitats these include the many-flowered grass-pink, which inhabits pine flatwoods, and the redmargin zephyrlily that can be found in both pine flatwoods and pastures. Mixed wetland hardwoods within the corridor may provide habitat for Chapman's sedge, star anise, and hand fern, while the Florida willow and toothed maiden fern may potentially occur within areas of cypress swamps and areas of freshwater marshes may provide suitable habitat for the lowland loosestrife and celestial lily.

2.5.4 Other Environmental Features

The environmental features of the proposed corridor are described in the preceding sections. Other environmental features in the vicinity of the corridor, such as natural landmarks and conservation lands, are identified in Section 2.4.1 and described in Section 2.4.4.

Table 2-1. Corridor Quantitative Evaluation Criteria and Weights

Routing Criteria	Category	Unit of Measure	Weight
Total length	Technical	Miles	3
Road/railroad crossings	Technical	Count	2
Existing transmission line crossings	Technical	Count	4
New right-of-way required	Technical	Acres	6
Length of OUC co-location within existing ROW	Technical	Feet	
Length of OUC co-location adjacent to existing ROW	Technical	Feet	
Length along existing linear facilities (roads)	Technical	Feet	
Length along existing linear facilities (railroads)	Technical	Feet	
Length along existing linear facilities (natural gas lines)	Technical	Feet	
Length along existing linear facilities (non-OUC transmission lines)	Technical	Feet	
Length along proposed road corridor	Technical	Feet	
Length not along existing/proposed linear facilities	Technical	Feet	7
Cost	Technical	U.S. Dollars	5
Airports, airstrips, and heliports within 5 miles of ROW	Technical	Count	3
Heavy angles (>30 degrees)	Technical	Count	
Number of owners crossed by ROW	Social	Count	6
Number of parcels crossed by ROW	Social	Count	
Residences within ROW	Social	Count	
Residences within 50 feet from ROW	Social	Count	
Residences within 51-100 feet from ROW	Social	Count	
Residences within 101-300 feet from ROW	Social	Count	
Residential Proximity Score[1]	Social	Score	10
Commercial facilities within 300 feet of ROW	Social	Count	2
Schools within 500 feet of ROW	Social	Count	
Other public facilities within 500 feet of ROW	Social	Count	
Public Facilities Score[2]	Social	Score	6
Non-NRHP historic/archaeological sites within ROW	Social	Count	2
NRHP historic/archaeological sites within ROW	Social	Count	
Residential parcels crossed by ROW	Social/Land Use	Count	7
Commercial and service land uses within ROW	Social/Land Use	Acres	2
Industrial and extractive land uses within ROW	Social/Land Use	Acres	
Agricultural land uses within ROW	Social/Land Use	Acres	3
Future residential land use within ROW	Social/Land Use	Acres	5
Planned development crossed by ROW	Social/Land Use	Acres	7
Conservation lands, easements, and parks within ROW	Environmental	Acres	7
Upland forest crossed within ROW	Environmental	Acres	4
Forested wetland areas within ROW	Environmental	Acres	
Herbaceous wetland areas within ROW	Environmental	Acres	
Wetland Area Score[3]	Environmental	Score	6
Streams and springs crossed by ROW	Environmental	Count	2
100-year floodplain within ROW	Environmental	Acres	2
Listed species (flora and fauna)-federally listed	Environmental	Count	
Listed species (flora and fauna)-state listed	Environmental	Count	
Listed species (flora and fauna)-score[4]	Environmental	Score	4
Wellfield wells within ROW	Environmental	Number	
Wellfield valves within ROW	Environmental	Number	
Wellfield hydrants within ROW	Environmental	Number	
Wellfield wells within 0-50 feet from ROW	Environmental	Number	
Wellfield valves within 0-50 feet from ROW	Environmental	Number	
Wellfield hydrants within 0-50 feet from ROW	Environmental	Number	

[1] Includes residences within ROW, 50 feet from ROW, 51-100 feet from ROW, and 101-300 feet from ROW
[2] Includes schools and other public facilities within 500 feet of ROW
[3] Includes forested and herbaceous wetland areas within ROW
[4] Includes federally listed and state-listed species (flora and fauna)

Table 2-2. Routing Analysis Results

Route	4	10	1	5	15	11	2	16	6	12	7	3	8	13	9	14
Total Length	8.04	13.25	28.82	9.23	27.67	14.44	30.00	28.85	17.24	22.45	18.42	3.00	5.91	23.63	8.21	11.12
Road/RR Crossings	3.74	7.23	3.16	4.90	6.65	8.39	4.32	7.81	2.00	5.48	3.16	16.52	14.77	6.65	20.00	18.26
Existing Transmission Line Crossings	4.00	4.00	4.00	40.00	4.00	40.00	40.00	40.00	4.00	4.00	40.00	4.00	4.00	40.00	4.00	4.00
New ROW Required	34.46	46.47	44.40	39.72	54.74	51.73	49.66	60.00	28.03	40.04	33.29	17.01	6.00	45.30	29.02	18.01
Length Not Along Existing/Proposed Linear Facilities	11.69	42.25	11.64	25.84	55.84	56.41	25.79	70.00	22.81	53.38	36.97	27.50	7.00	67.53	58.06	37.57
Cost	18.90	11.71	16.29	25.98	5.00	18.79	23.37	12.08	42.92	35.73	50.00	23.99	39.61	42.81	16.80	32.42
Airports, Airstrips, and Heliports within 5 miles of ROW	16.50	16.50	3.00	16.50	3.00	16.50	3.00	3.00	16.50	16.50	16.50	30.00	30.00	16.50	30.00	30.00
# of Owners Crossed by ROW	15.33	8.00	14.00	15.67	6.00	8.33	14.67	6.67	32.67	26.00	33.00	43.00	60.00	26.33	36.33	53.33
Residential Proximity Score	18.23	12.39	20.88	15.84	14.78	10.00	18.50	12.39	31.77	25.93	29.38	86.46	100.00	23.54	80.62	94.16
Commercial Facilities within 300 ft of ROW	2.42	2.00	3.26	2.42	2.84	2.00	3.26	2.84	2.42	2.00	2.42	20.00	20.00	2.00	19.58	19.58
Public Facilities Score	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	60.00	60.00	6.00	60.00	60.00
Non-NRHP Historic/Archaeological Sites within ROW	20.00	20.00	20.00	2.00	20.00	2.00	2.00	2.00	20.00	20.00	2.00	2.00	2.00	2.00	2.00	2.00
Residential Parcels Crossed by ROW	11.73	7.00	13.30	11.73	7.79	7.00	13.30	7.79	36.93	32.20	36.93	44.80	70.00	32.20	40.08	65.28
Commercial & Service Land Uses within ROW	2.63	2.63	2.63	2.00	2.63	2.00	2.00	2.00	2.63	2.63	2.00	20.00	20.00	2.00	20.00	20.00
Agricultural Land Uses within ROW	20.92	29.15	3.00	20.92	11.23	29.15	3.00	11.23	21.77	30.00	21.77	3.01	3.85	30.00	11.24	12.09
Future Residential Land Use within ROW	5.42	7.72	5.00	11.40	7.30	13.70	10.98	13.28	25.13	27.43	31.11	30.67	47.70	33.41	32.97	50.00
Planned Residential/Commercial Development Crossed by ROW	13.35	20.53	13.96	30.59	33.34	37.78	31.21	50.59	45.57	52.75	62.82	7.00	39.22	70.00	14.18	46.41
New Conservation Lands, Easements, & Parks within ROW	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	70.00	70.00	70.00	70.00	7.00	70.00	70.00	7.00
Upland Forest Crossed within ROW	13.95	7.66	6.44	28.47	4.00	22.18	20.97	18.52	25.48	19.19	40.00	28.10	20.85	33.71	21.81	14.56
Wetland Area Score	28.98	21.50	57.63	31.35	49.87	23.87	60.00	52.24	29.82	22.34	32.19	14.32	13.47	24.71	6.84	6.00
Streams & Springs Crossed by ROW	20.00	20.00	16.40	20.00	16.40	20.00	16.40	16.40	16.40	16.40	16.40	5.60	2.00	16.40	5.60	2.00
100-Year Floodplain within ROW	4.97	2.00	18.91	6.06	16.12	3.09	20.00	17.21	6.65	3.68	7.74	5.16	5.61	4.77	2.19	2.64
Listed Species Score	4.00	4.00	28.00	4.00	28.00	4.00	28.00	28.00	4.00	4.00	4.00	40.00	40.00	4.00	40.00	40.00
Total	292.3	319.0	347.7	377.6	390.2	404.4	433.4	475.9	510.7	538.1	596.1	602.1	619.0	623.5	629.5	646.4

Table 2-3. OUC St. Cloud East – Magnolia Ranch North 230 kV Transmission Line Project Crossing Approvals Anticipated to be Required

Facility	Affected Agency	Type of Approval
Old Melbourne Highway	FDOT	Utility Permit (crossing)
Nova Road	FDOT	Utility Permit (crossing)
C-32C Canal	SFWMD	Utility Permit (crossing)
C-30 Canal	SFWMD	Utility Permit (crossing)
City of Cocoa Wellfield	City of Cocoa	Utility Permit (crossing)
TM Ranch Road	Orange County	Crossing Permit
Moss Park Ridge Drive	Orange County	Crossing Permit
Wewahootee Road	Orange County	Crossing Permit

Source: OUC and Golder, 2021.

Table 2-4. Acreage of Land Use Type and Dominant Vegetative Communities within the SCE to MR Corridor

FLUCFCS Code	Land Use / Land Cover Description	Acreage	Percent
110	Low Density, <2 dwelling units/acre	5.04	0.34
121	Medium Density, Fixed Single Family Units	0.04	<0.01
139	High Density Under Construction	7.90	0.53
140	Commercial and Services	1.33	0.09
150	Industrial	0.63	0.04
170	Institutional	0.06	<0.01
189	Other Recreational	4.81	0.32
211	Improved Pastures	181.60	12.23
212	Unimproved Pastures	49.84	3.36
213	Woodland Pastures	12.35	0.83
224	Abandoned Citrus Groves	31.52	2.12
320	Shrub and Brushland	97.82	6.59
330	Mixed Rangeland	0.12	0.01
411	Pine Flatwoods	76.00	5.12
413	Sand Pine	2.45	0.16
420	Upland Hardwood Forest	0.38	0.03
421	Xeric Oak	8.39	0.57
434	Hardwood-Conifer Mixed Forest	380.37	25.61
510	Streams and Waterways	1.37	0.09
511	Ditches	7.05	0.47
512	Channelized Waterway	0.88	0.06
523	Lakes >10 acres>100 acres	4.62	0.31
530	Reservoirs	1.20	0.08
534	Reservoirs <10 acres	7.06	0.48
617	Mixed Wetland Hardwoods	21.34	1.44
621	Cypress	67.97	4.58
630	Wetland Forested Mixed	289.52	19.49
641	Freshwater Marshes	88.42	5.95
643	Wet Prairies	16.82	1.13
740	Disturbed Land	2.38	0.16
747	Dikes and Levees	5.56	0.37
812	Railroads	8.20	0.55
814	Roads and Highways	4.28	0.29
831	Electric Power Facilities	6.46	0.43
832	Electrical Power Transmission Lines	91.16	6.14
833	Water Supply Plants	0.45	0.03
	TOTAL	**1,485.42**	**100**

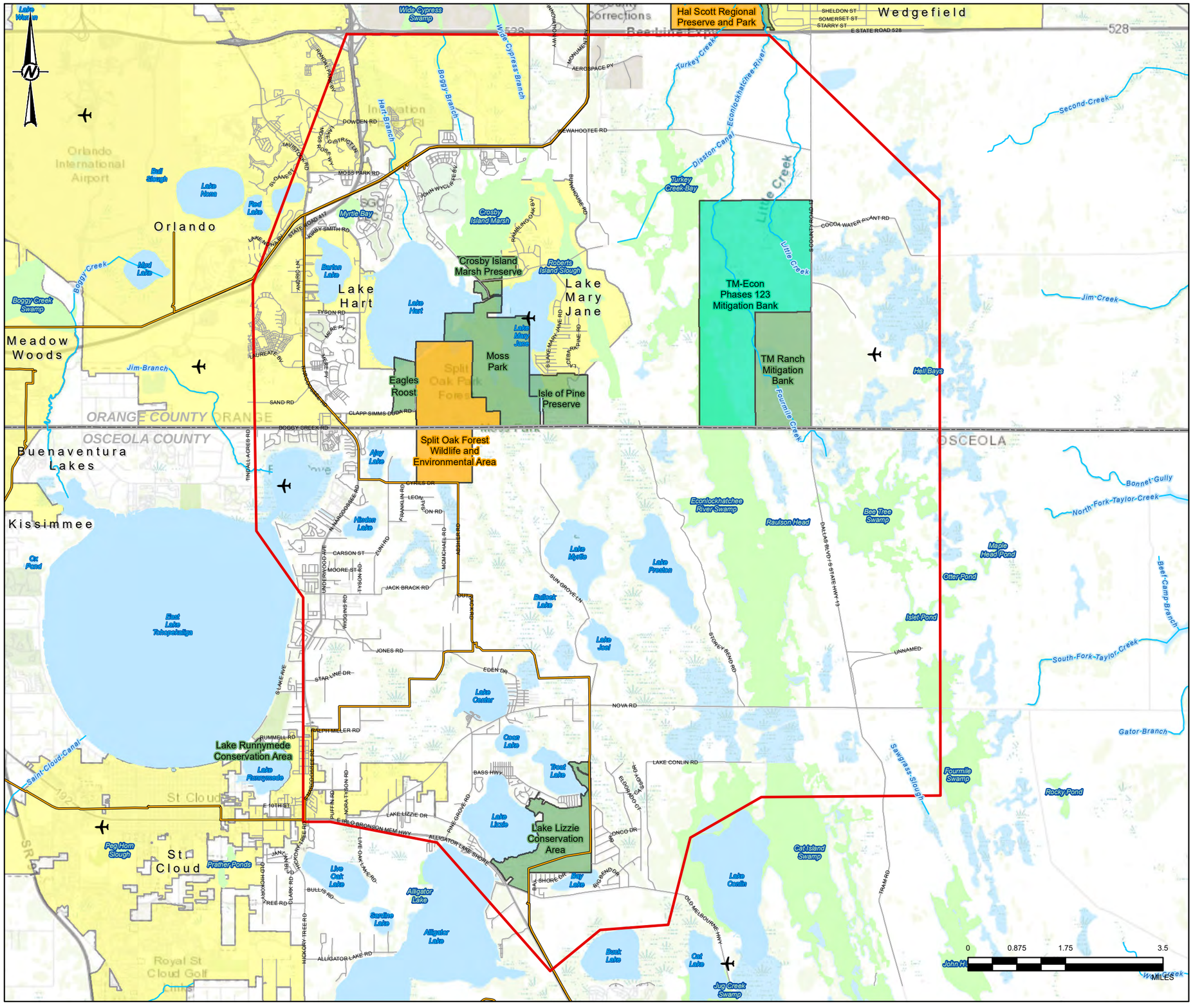
Table 2-5. Threatened and Endangered Species Known to Occur in Orange and Osceola Counties and Probability of Occurrence within the SCE-MR Corridor

Species	Status	Probability of Occurrence
PLANTS		
Pinewoods bluestem (*Andropogon arctatus*)	State – T	Low
Florida bonamia (*Bonamia grandiflora*)	State – E Federal - T	Low
Many-flowered grass-pink (*Calopogon multiflorus*)	State - T	Moderate
Sand butterfly pea (*Centrosema arenicola*)	State – E	Low
Chapman's sedge (*Carex chapmanii*)	State - T	Moderate
Pygmy fringe tree (*Chionanthus pygmaeus*)	State – E Federal - E	Low
Scrub pigeon-wing (*Clitoria fragrans*)	State – E Federal - T	Low
Piedmont jointgrass (*Coelorachis tuberculosa*)	State - T	Low
Cutthroatgrass (*Coleataenia abscissa*)	State - E	Low
Short-leaved rosemary (*Conradina brevifolia*)	State – E Federal - E	Low
Large-flowered rosemary (*Conradina grandiflora*)	State – T	Low
Beautiful pawpaw (*Deeringothamnus pulchellus*)	State – E Federal - E	Low
Scrub buckwheat (*Eriogonum longifolium var. gnaphalifolium*)	State – E Federal - T	Low
Tampa vervain (*Glandularia tampensis*)	State - E	Low
Star anise (*Illicium parviflorum*)	State - E	Moderate
Nodding pinweed (*Lechea cernua*)	State - T	Low
Pine pinweed (*Lechea divaricata*)	State – E	Low
Scrub lupine (*Lupinus aridorum*)	State – E Federal - E	Low
Lowland loosestrife (*Lythrum flagellare*)	State - E	Moderate
Florida spiny-pod (*Matelea floridana*)	State - E	Low
Narrowleaf naiad (*Najas filifolia*)	State - T	Low
Celestial lily (*Nemastylis floridana*)	State - E	Moderate
Florida beargrass (*Nolina atopocarpa*)	State - T	Low
Britton's beargrass (*Nolina brittoniana*)	State – E Federal - E	Low
Hand fern (*Ophioglossum palmatum*)	State - E	Moderate
Paper-like nailwort (*Paronychia chartacea var. chartacea*)	State – E Federal - T	Low
Plume polypody (*Pecluma plumula*)	State - E	Low
Comb polypody (*Pecluma ptilota var. bourgeauana*)	State - E	Low
Yellow fringeless orchid (*Platanthera integra*)	State - E	Low
Lewton's polygala (*Polygala lewtonii*)	State – E Federal - E	Low
Small's jointweed (*Polygonella myriophylla*)	State – E Federal - E	Low
Scrub plum (*Prunus geniculata*)	State – E Federal - E	Low
Giant orchid (*Pteroglossaspis ecristata*)	State - T	Low
Florida willow (*Salix floridana*)	State - E	Moderate
Scrub bluestem (*Schizachyrium niveum*)	State - E	Low

Table 2-5. Threatened and Endangered Species Known to Occur in Orange and Osceola Counties and Probability of Occurrence within the SCE-MR Corridor

Species	Status	Probability of Occurrence
Scrub stylisma (*Stylisma abdita*)	State - E	Low
Toothed maiden fern (*Thelypteris serrata*)	State- E	Moderate
Clasping warea (*Warea amplexifolia*)	State – E Federal - E	Low
Redmargin zephyrlily (*Zephyranthes simpsonii*)	State - T	Moderate
FISH		
Bluenose Shiner (*Pteronotropis welaka*)	State - T	None
AMPHIBIANS and REPTILES		
American alligator (*Alligator mississippiensis*)	State – FT Federal – SAT	High
Eastern indigo snake (*Drymarchon couperi*)	State – FT Federal – T	Moderate
Gopher tortoise (*Gopherus polyphemus*)	State – T Federal - C	High
Short-tailed snake (*Lampropeltis extenuata*)	State - T	Low
Striped newt (*Notophthalums perstriatus*)	Federal - C	Low
Florida pine snake (*Pituophis melanoleucus mugitus*)	State - T	Moderate
Blue-tailed mole skink (*Plestiodon egregius lividus*)	State – FT Federal - T	None
Sand skink (*Plestiodon reynoldsi*)	State – FT Federal - T	None
BIRDS		
Florida grasshopper sparrow (*Ammodramus savannarum floridanus*)	State – FE Federal - E	Low
Florida scrub-jay (*Aphelocoma coerulescens*)	State – FT Federal - T	Low
Burrowing owl (*Athene cunicularia floridana*)	State - T	Moderate
Crested caracara (*Caracara cheriway*)	State – FT Federal – T	Moderate
Little blue heron (*Egretta caerulea*)	State – T	High
Tricolored heron (*Egretta tricolor*)	State – T	High
Southeastern American kestrel (*Falco sparverius paulus*)	State – T	Moderate
Florida sandhill crane (*Grus canadensis pratensis*)	State – T	High
Wood stork (*Mycteria americana*)	State – FT Federal – T	High
Red-cockaded woodpecker (*Picoides borealis*)	State – E Federal - E	Low
Roseate spoonbill (*Platalea ajaja*)	State - T	Low
Everglade snail kite (*Rostrhamus sociabilis plumbeus*)	State – FE Federal - E	Low
MAMMALS		
Florida bonneted bat (*Eumops floridanus*)	State – E Federal - E	Low

Note: E = Endangered
T = Threatened
SAT = Threatened due to Similarity in Appearance
C = Candidate species for listing
FT = Federally-designated Threatened
FE = Federally-designated Endangered



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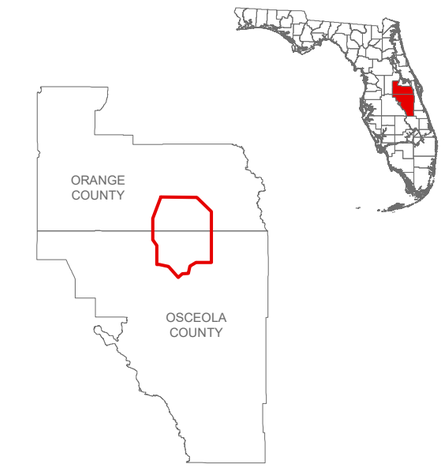

LEGEND

- EXISTING SUBSTATIONS
- AIRPORT
- EXISTING TRANSMISSION LINE
- STREAMS
- STUDY AREA
- STATE MANAGED LAND
- COUNTY MANAGED LAND
- PRIVATELY MANAGED LAND
- NATIONAL WILDLIFE REFUGE
- WATERBODY
- SWAMP / MARSH
- CITY BOUNDARY
- COUNTY BOUNDARY

REFERENCE(S)

1. EXISTING TRANSMISSION, EXISTING SUBSTATIONS, OAK RIDGE NATIONAL LABORATORY, 2019.
2. STUDY AREA, BURNS & MCDONNELL, 2019.
3. CONSERVATION LAND, FLORIDA MANAGED AREAS VIA FLORIDA NATURAL AREA INVENTORY, 2019.
4. NATIONAL WILDLIFE REFUGE, USFWS, 2017.
5. STREAMS, WATERBODY, SWAMP/MARSH, USGS NHD, 2019.
6. AIRPORTS, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
7. COUNTY BOUNDARY, FLORIDA GEOGRAPHIC DATA LIBRARY, 2011.
8. CITY BOUNDARY, U.S. CENSUS BUREAU, 2019.
9. SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
STUDY AREA

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2020-12-13
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C014	0	2-1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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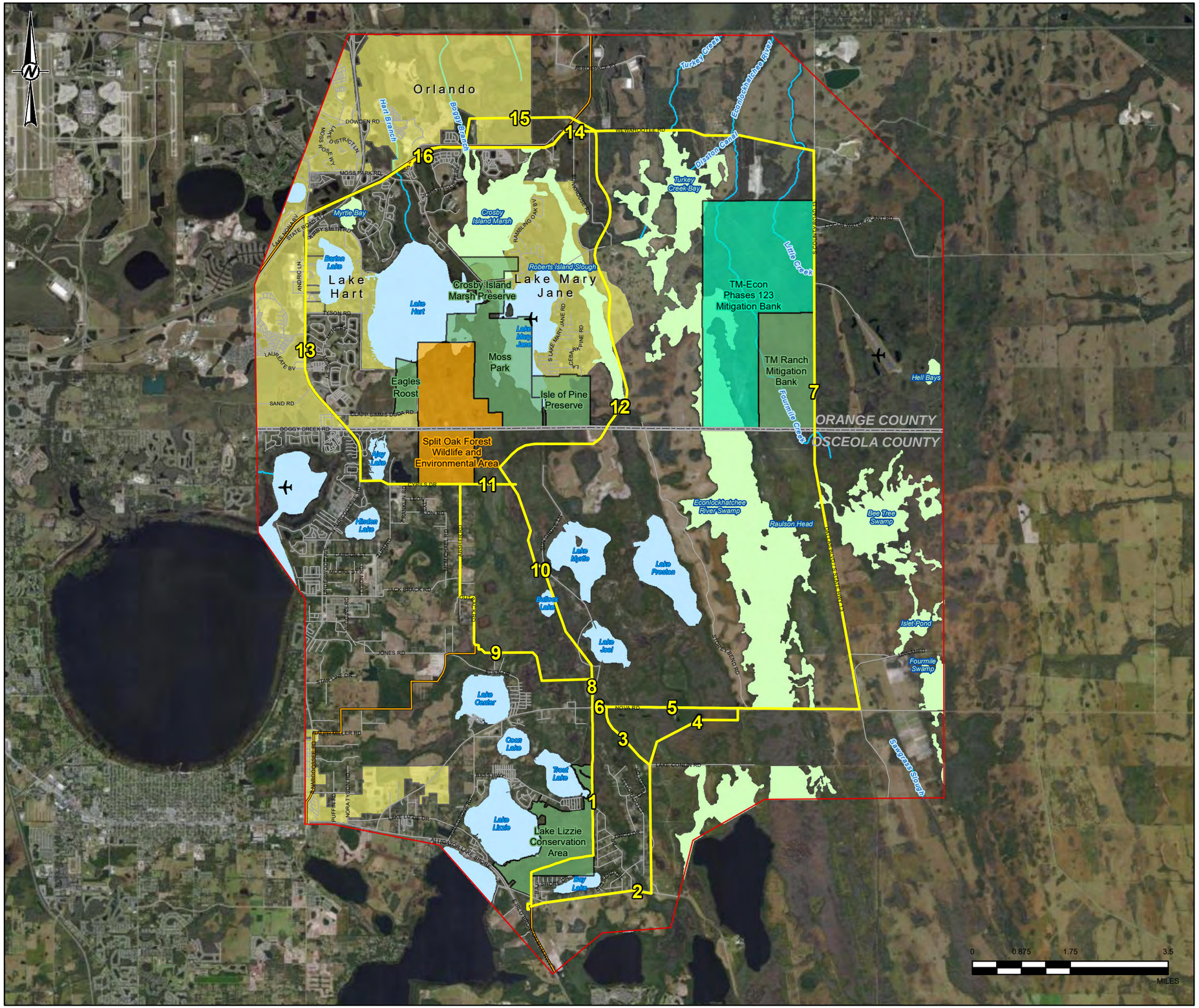
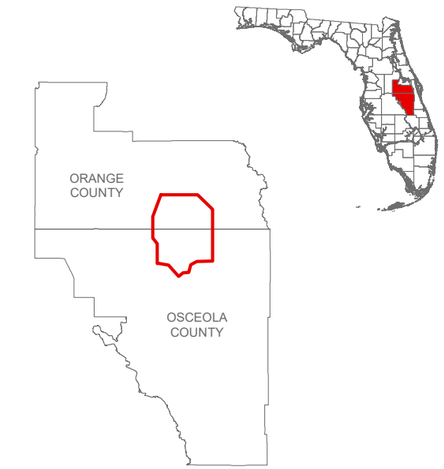


KEY MAP



LEGEND

- EXISTING SUBSTATIONS
- AIRPORT
- EXISTING TRANSMISSION LINE
- STREAMS
- PROPOSED ROUTE SEGMENTS
- STUDY AREA
- STATE MANAGED LAND
- COUNTY MANAGED LAND
- PRIVATELY MANAGED LAND
- WATERBODY
- SWAMP / MARSH
- CITY BOUNDARY
- COUNTY BOUNDARY

REFERENCE(S)

1. EXISTING TRANSMISSION, EXISTING SUBSTATIONS, OAK RIDGE NATIONAL LABORATORY, 2019.
2. STUDY AREA, PROPOSED ROUTE SEGMENTS, BURNS & MCDONNELL, 2019.
3. CONSERVATION LAND, FLORIDA MANAGED AREAS VIA FLORIDA NATURAL AREA INVENTORY, 2019.
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7. COUNTY BOUNDARY, FLORIDA GEOGRAPHIC DATA LIBRARY, 2011.
8. CITY BOUNDARY, U.S. CENSUS BUREAU, 2019.
9. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ALTERNATE ROUTE SEGMENTS

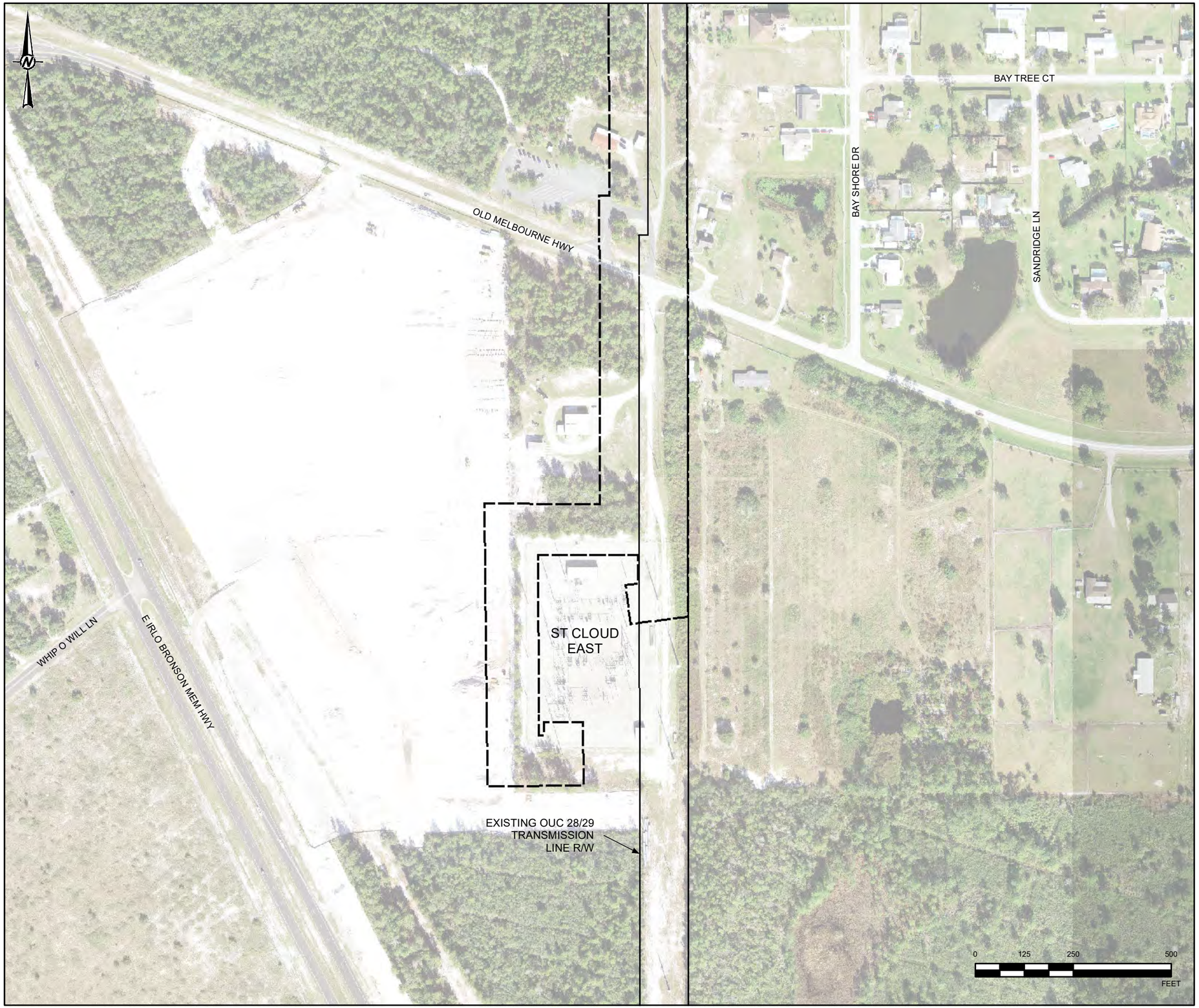
CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2020-12-13
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C015	0	2-2

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C. Permitting\02_PRODUCTION\MXD\19115515_C015_Alt_Route_Segments.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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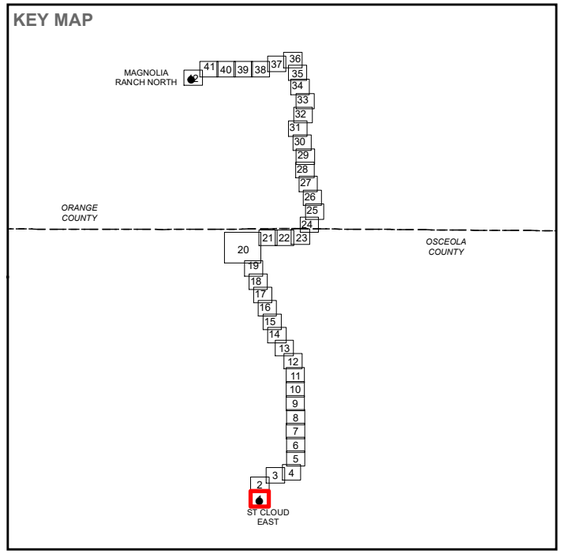


LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

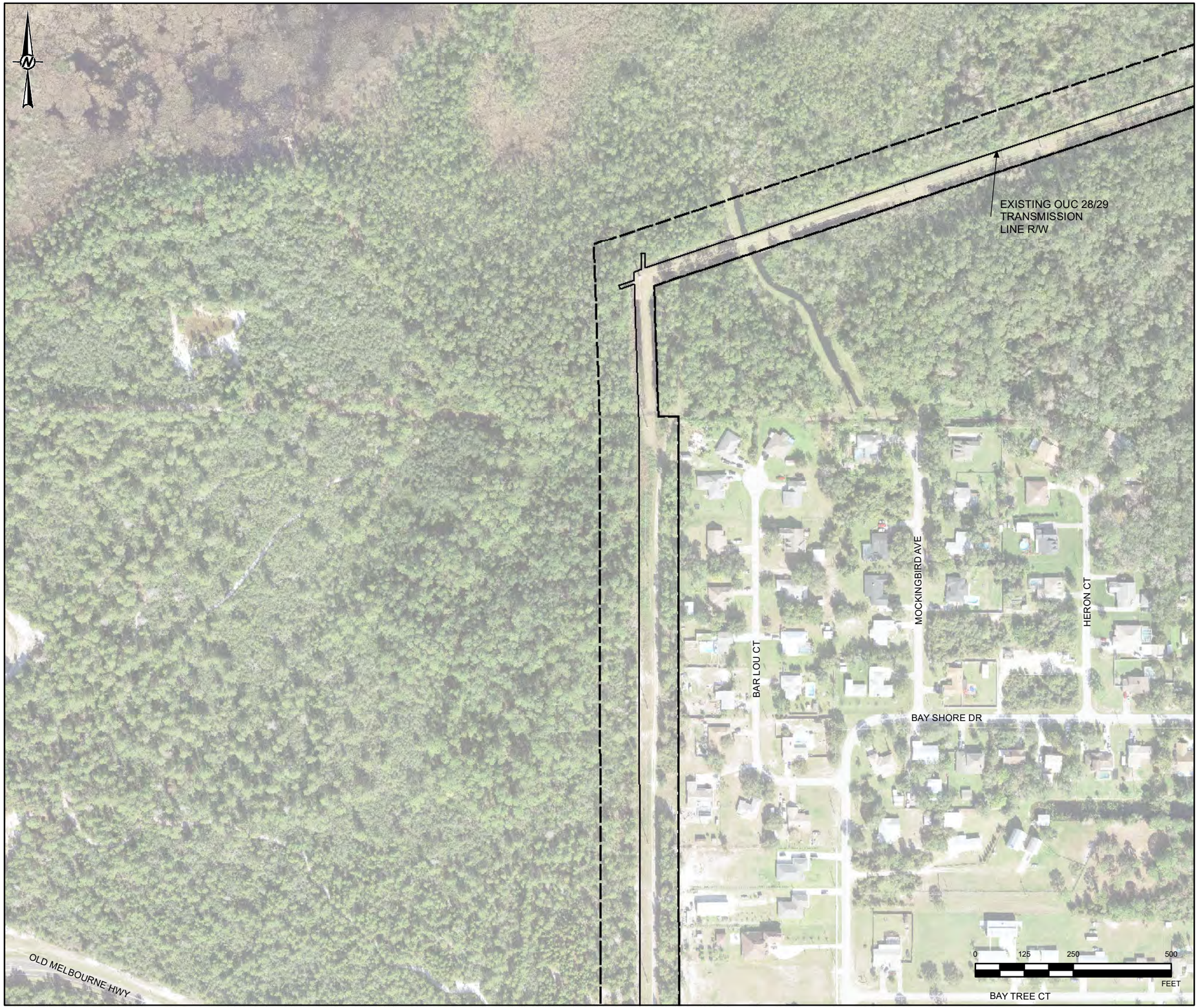
CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd



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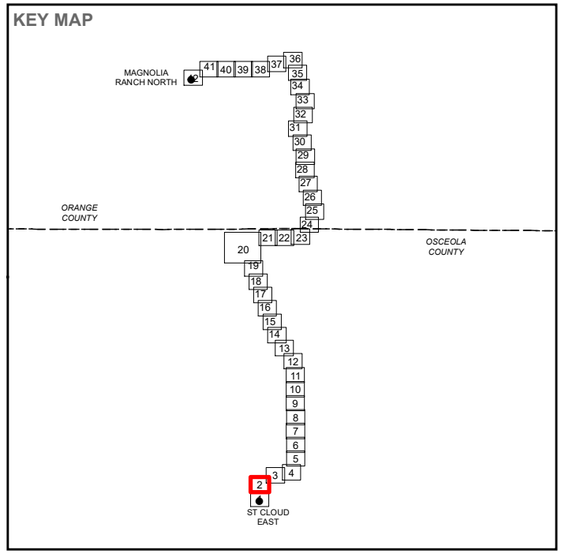


LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

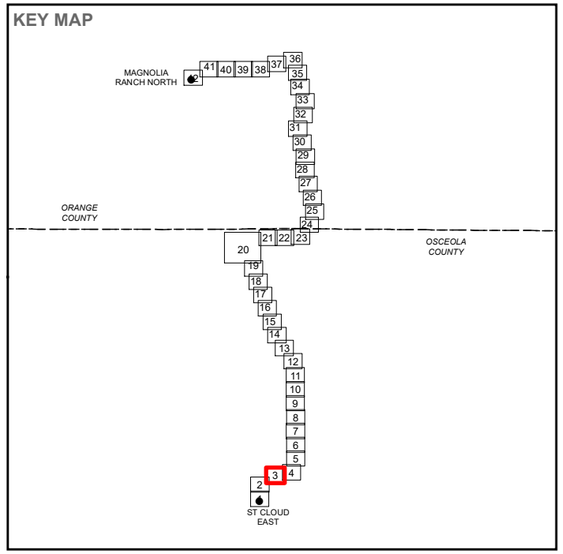
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

PROPOSED CORRIDOR

EXISTING OUC 28/29 TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT

OUC The Reliable One

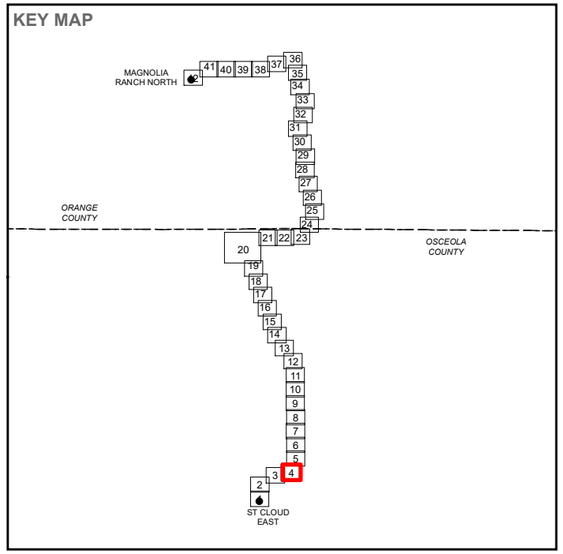
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	**2-3**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

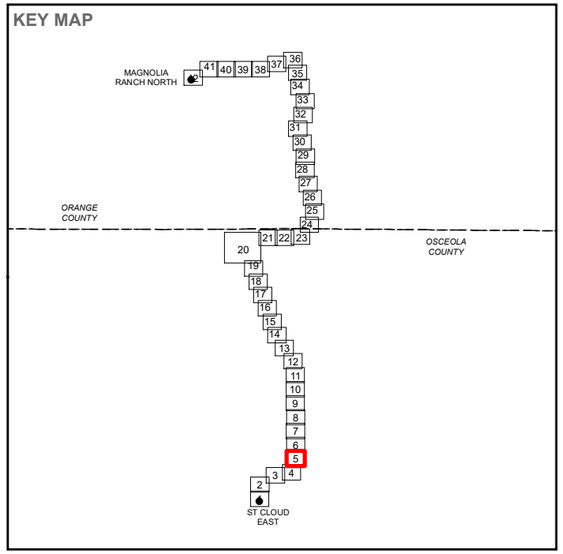
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TL\$AIC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

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PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	**2-3**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\SlCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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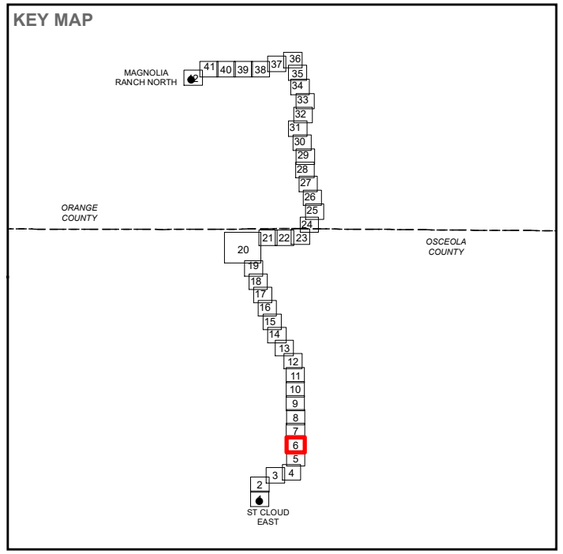

LEGEND

PROPOSED CORRIDOR

EXISTING OUC 28/29 TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

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CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT

OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAVC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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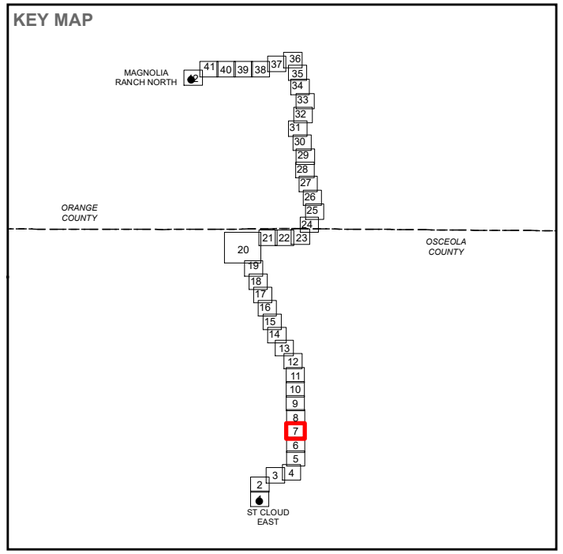

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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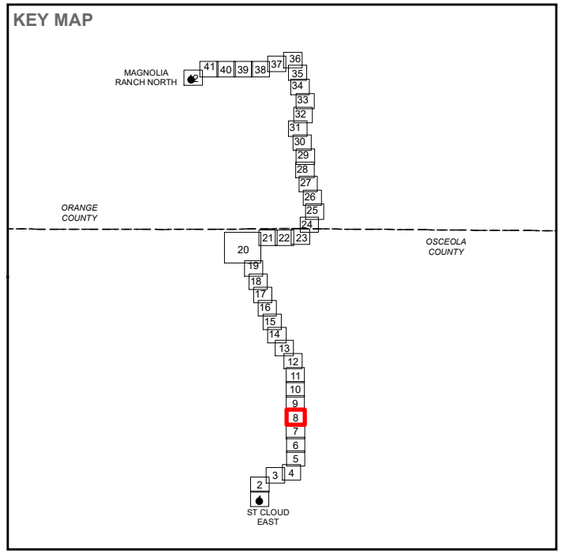


LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

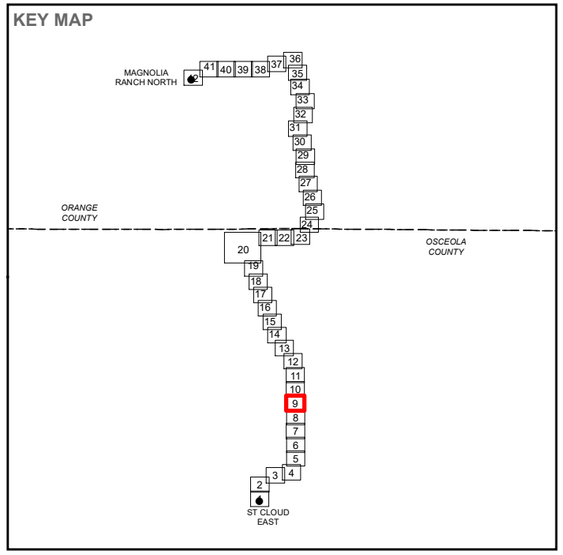
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT

OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	**2-3**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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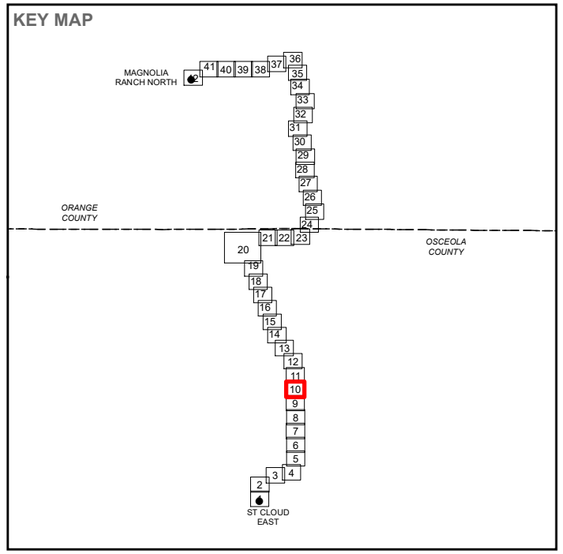


LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

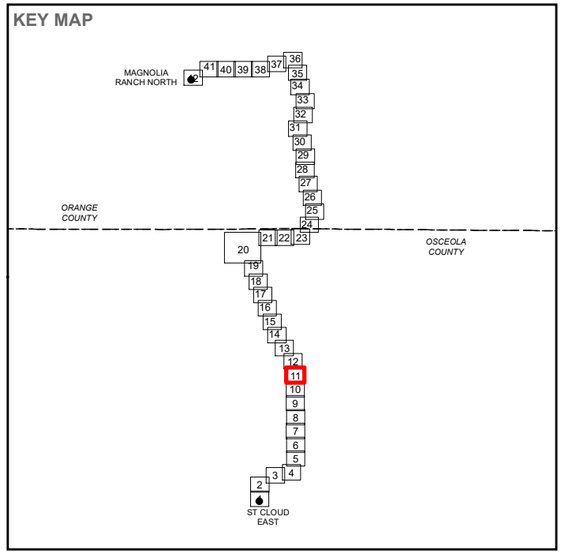
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\SiCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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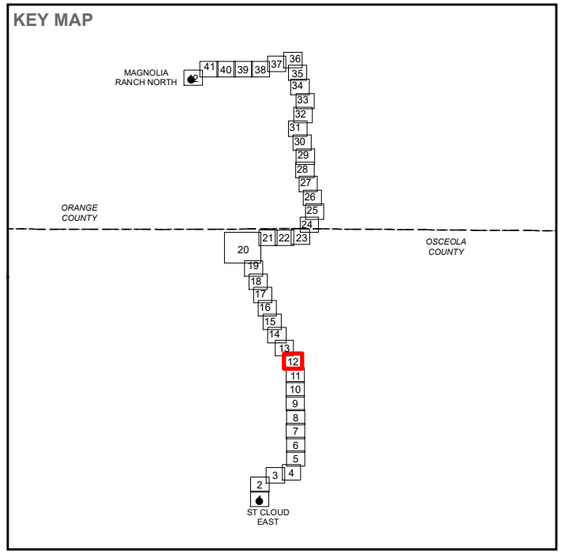

LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT

OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	**2-3**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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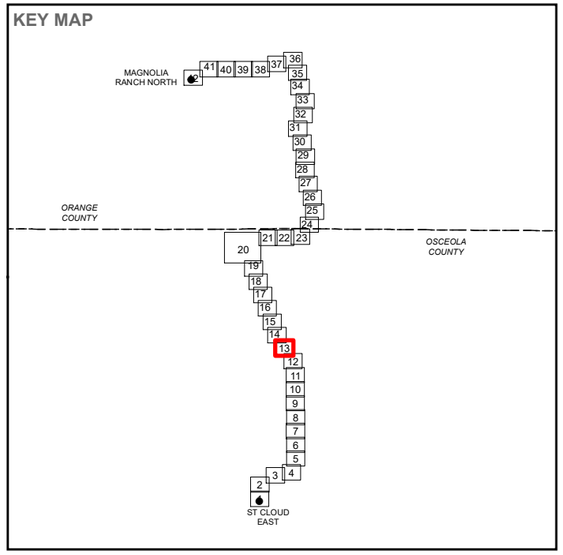
KEY MAP



LEGEND

PROPOSED CORRIDOR

PROPOSED NORTHEAST CONNECTOR EXPRESSWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
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CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT

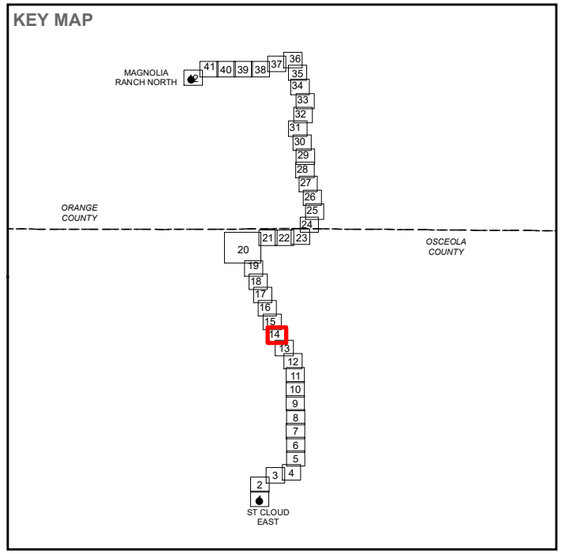
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	**2-3**

PATH: G:\Projects\OUC\SC\St Cloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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CLIENT
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PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
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PREPARED	NRL
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

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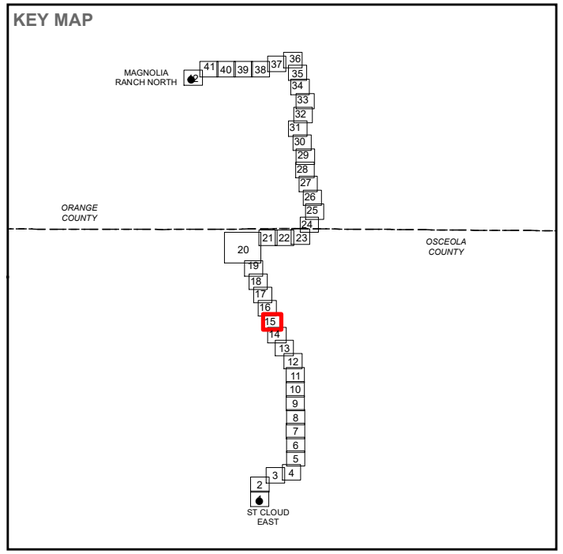
PATH: G:\Projects\OUC\SiCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT

OUC The Reliable One

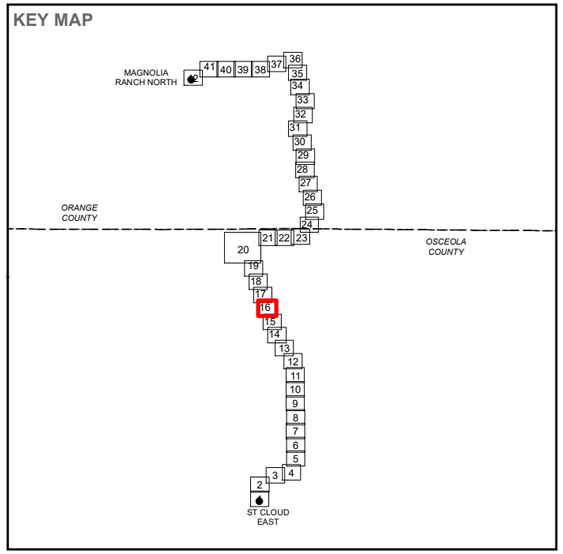
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	**2-3**

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAVC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- SUNBRIDGE PARKWAY FUTURE WATER TREATMENT PLANT

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
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REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAVC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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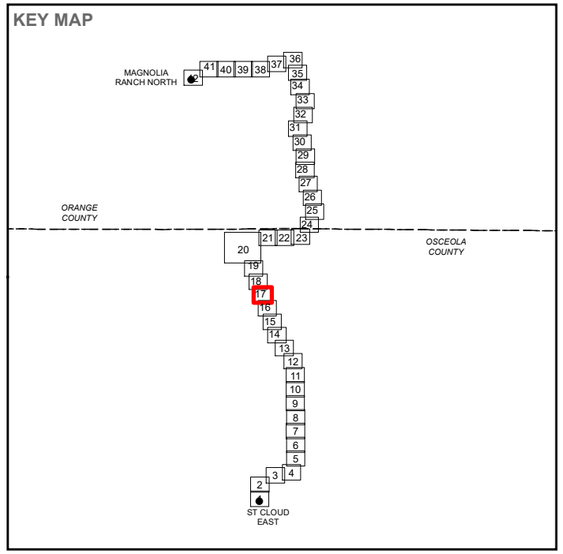

LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- SUNBRIDGE PARKWAY FUTURE WATER TREATMENT PLANT

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
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CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\SICloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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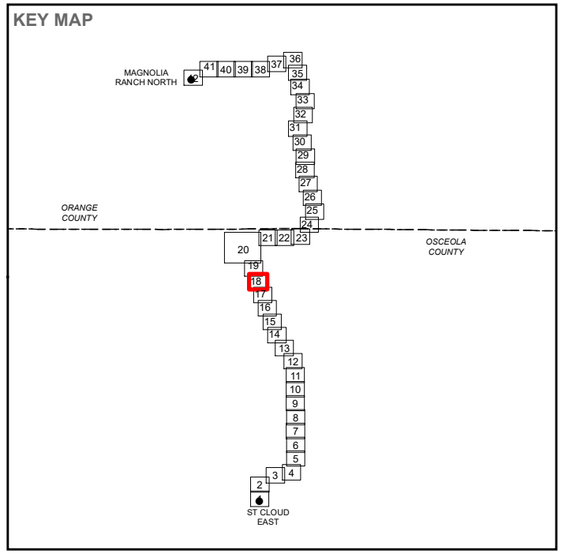

LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- SUNBRIDGE PARKWAY FUTURE WATER TREATMENT PLANT

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

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CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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CONSULTANT
OUC The Reliable One

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_Transmission\Line\99_PROJECTS\19115515_TLSIAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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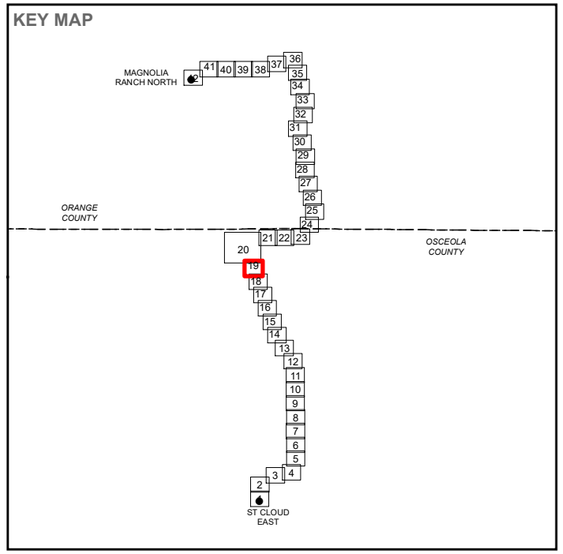

LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

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CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\SCSCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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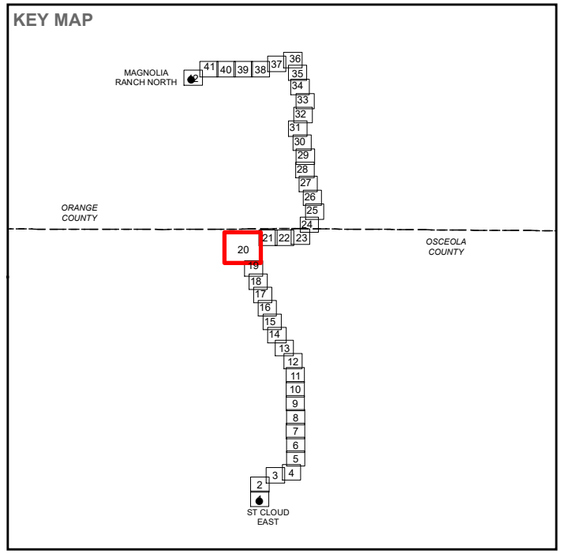
KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED CYRILS BYPASS ROAD
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TL5\AC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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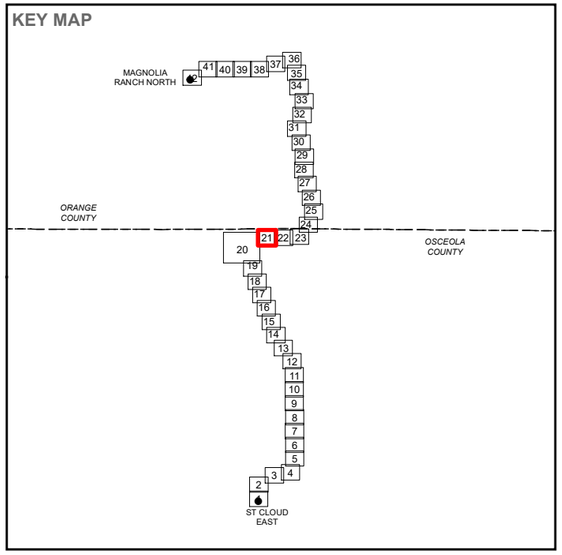

LEGEND

- PROPOSED CORRIDOR
- PROPOSED CYRILS BYPASS ROAD

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

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CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
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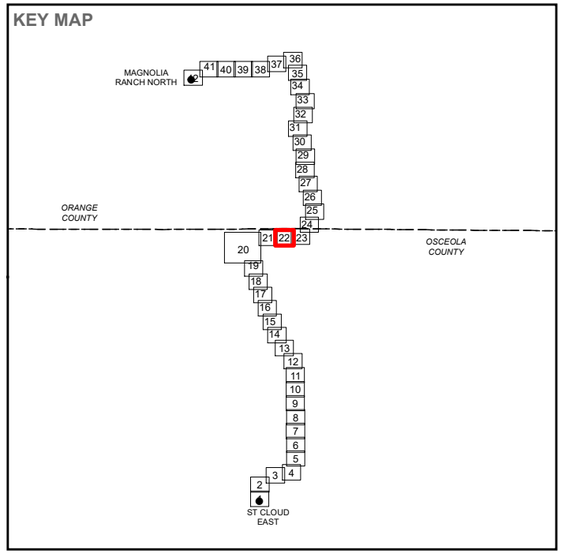
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	**2-3**

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TL&AC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED CYRILS BYPASS ROAD

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

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ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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OUC The Reliable One

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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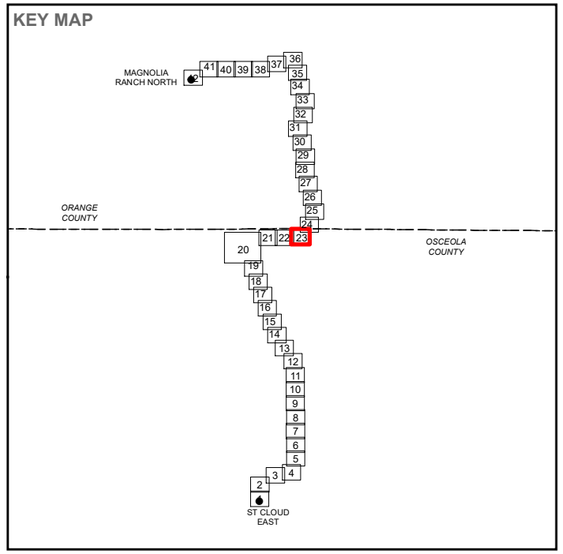

LEGEND

- PROPOSED CORRIDOR
- PROPOSED CYRILS BYPASS ROAD

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\09_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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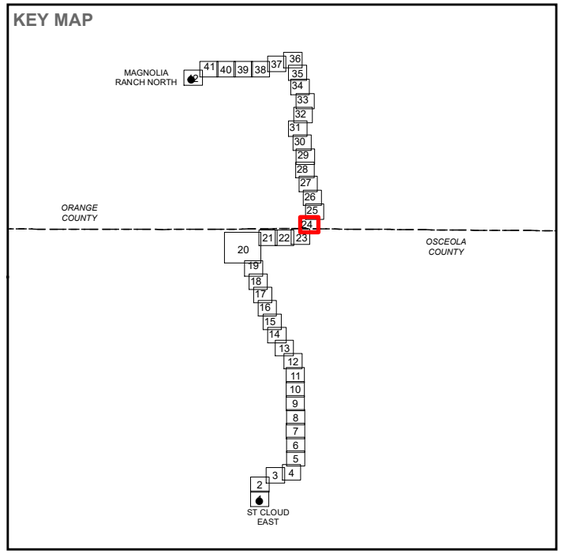

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED CYRILS BYPASS ROAD

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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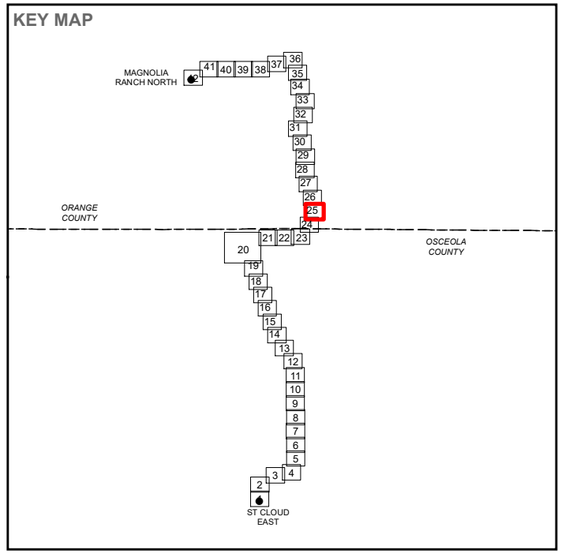

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT

OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
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REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAVC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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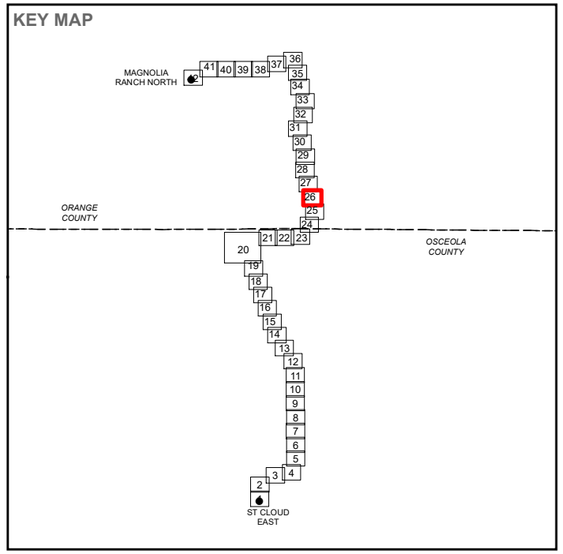

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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OUC The Reliable One

YYYY-MM-DD	2021-06-03
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	**2-3**

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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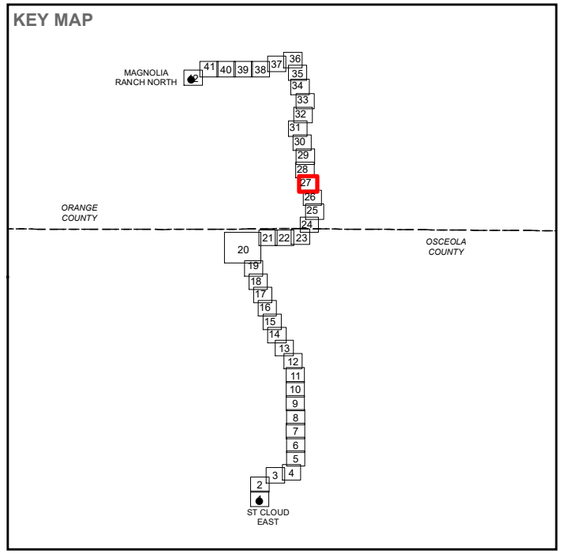

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

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PROJECTION: TRANSVERSE MERCATOR
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ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	**2-3**

PATH: G:\Projects\OUC\SCCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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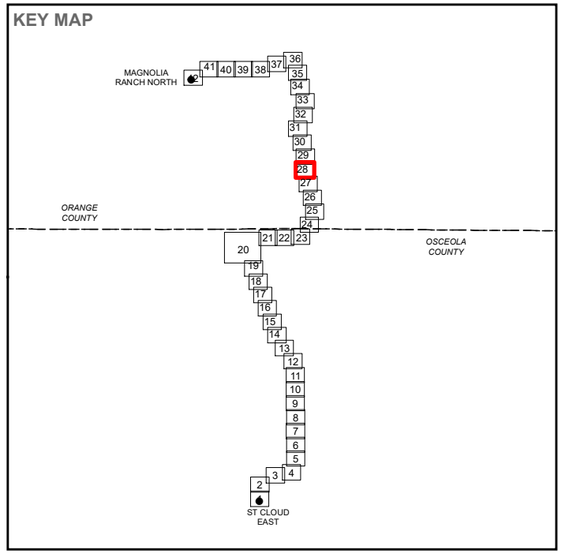

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY

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PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

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PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	**2-3**

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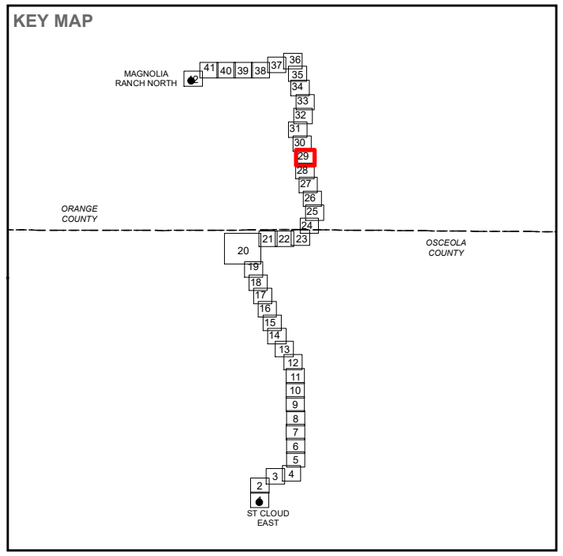

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY

REFERENCE(S)

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PROJECTION: TRANSVERSE MERCATOR
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OUC The Reliable One

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TL&AC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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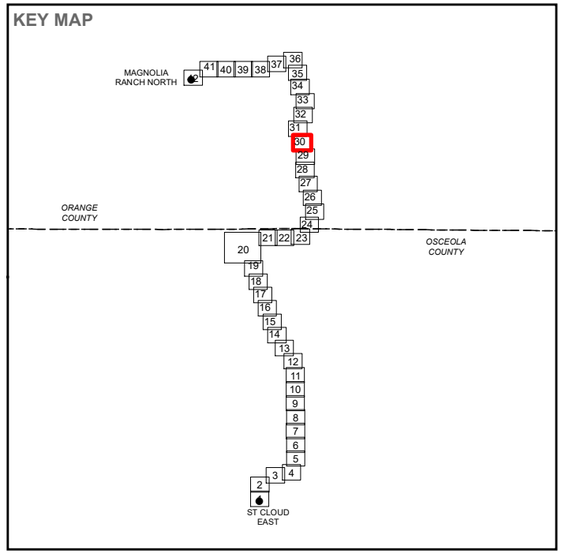


LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

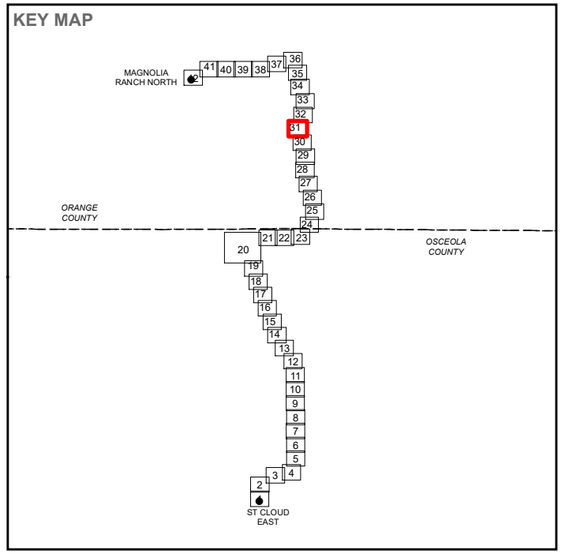
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

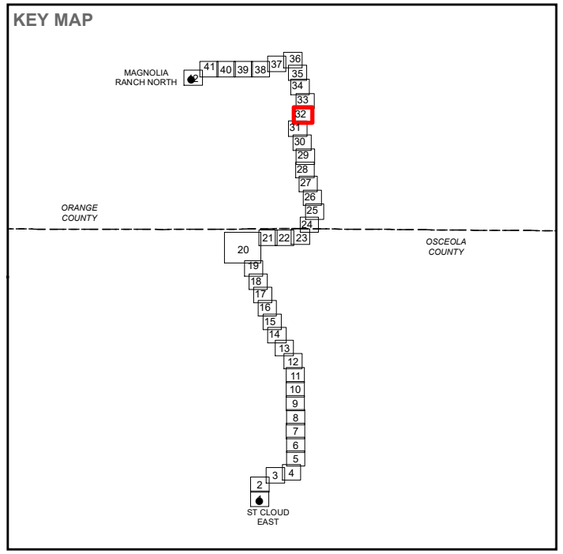
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

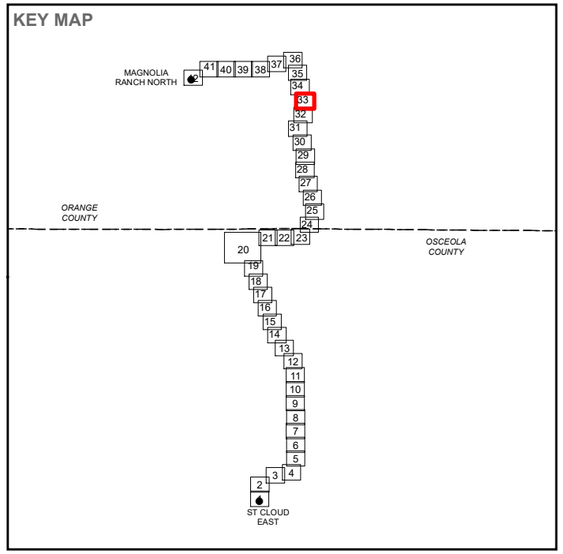
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\SiCloud_MagnoliaRanch_TransmissionLine\09_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

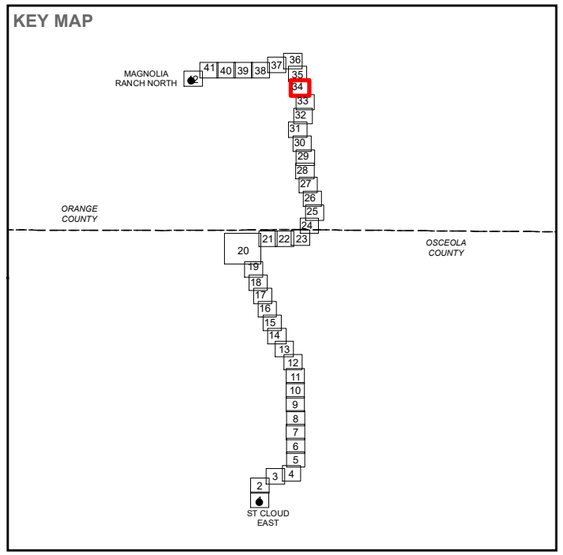
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\SC\Cloud_Magnolia\Ranch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

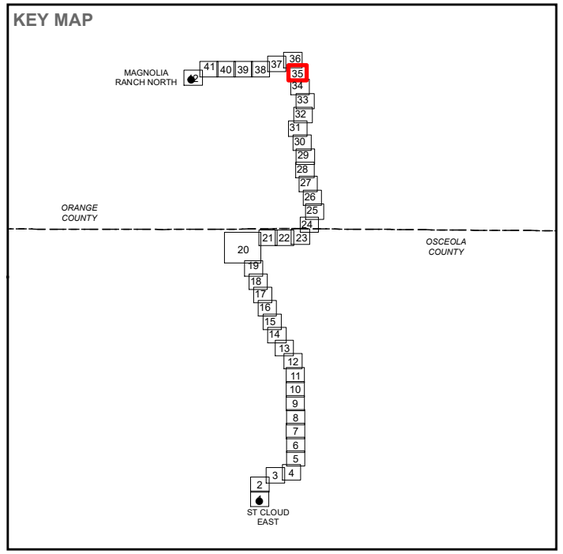
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

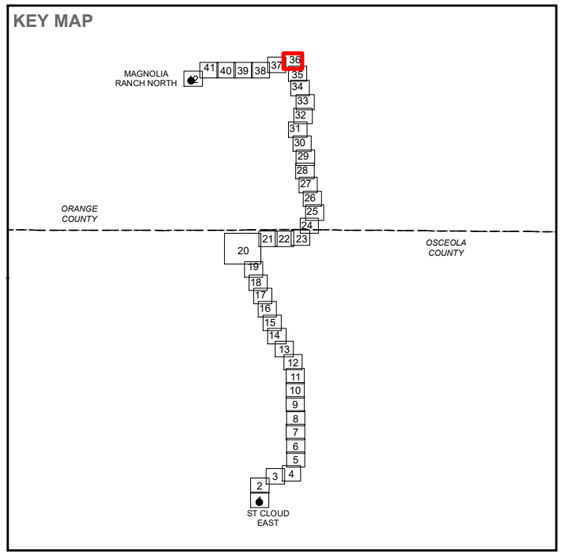
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\SCCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC MAGNOLIA RANCH-STANTON TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

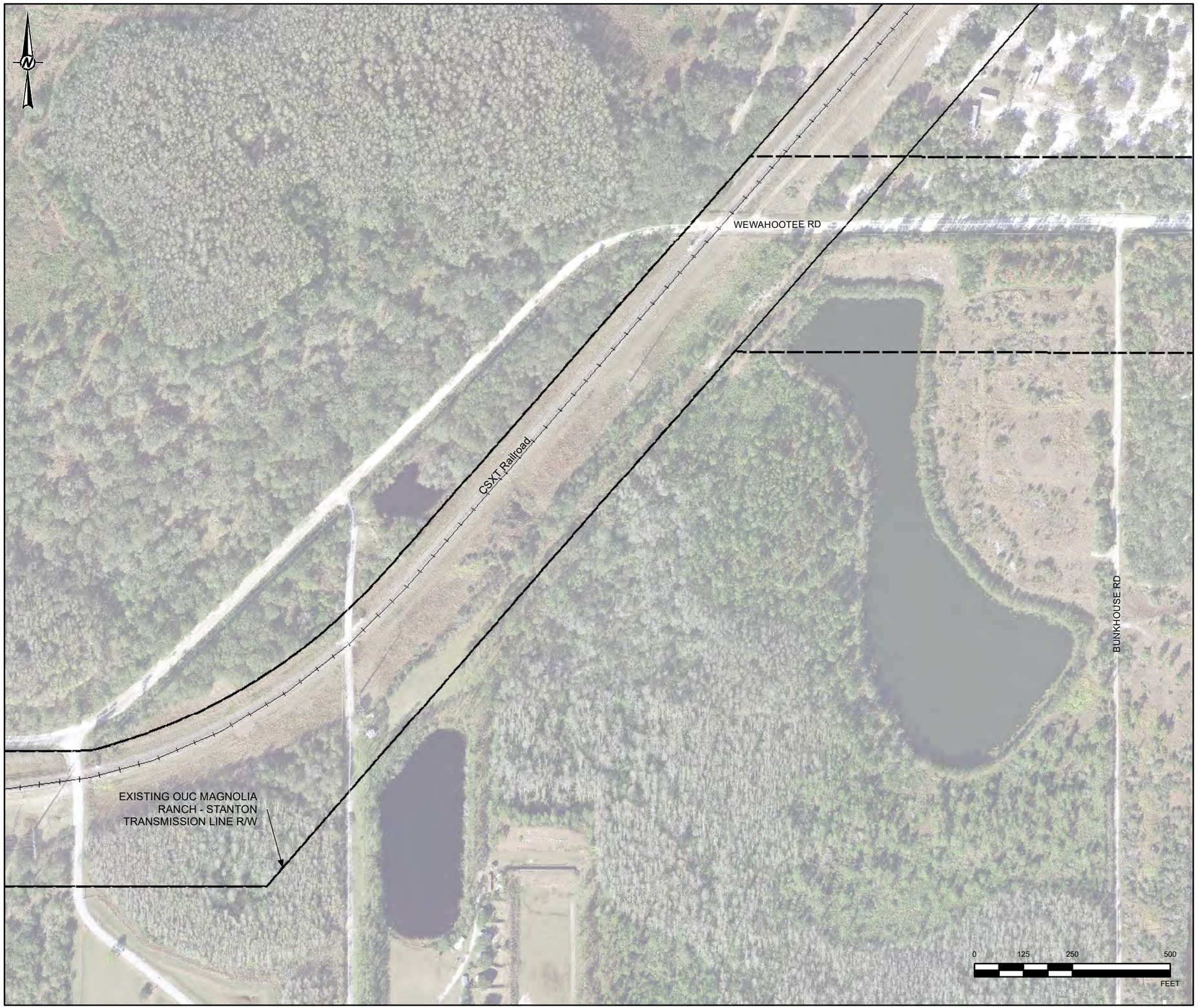
CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TL&AC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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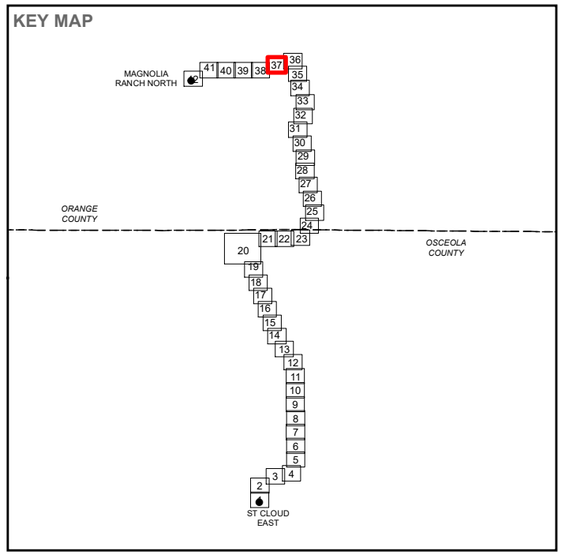

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC MAGNOLIA RANCH-STANTON TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
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DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
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CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

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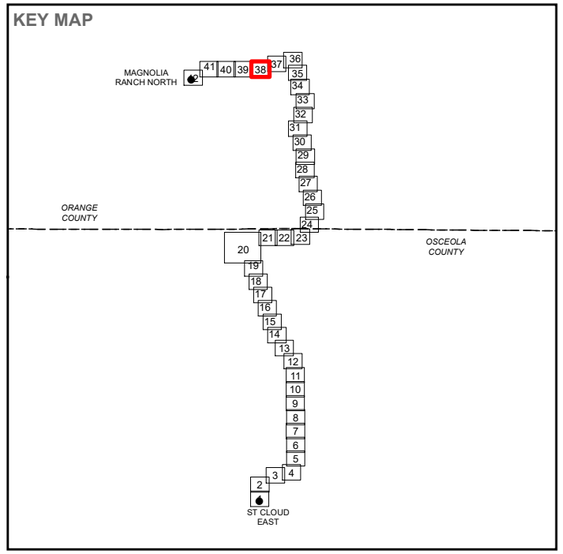
PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC MAGNOLIA RANCH-STANTON TRANSMISSION LINE R/W

REFERENCE(S)

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PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT

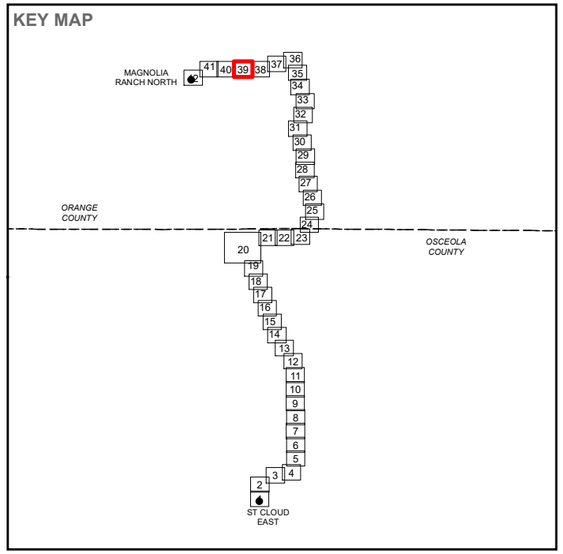
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC MAGNOLIA RANCH-STANTON TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\9_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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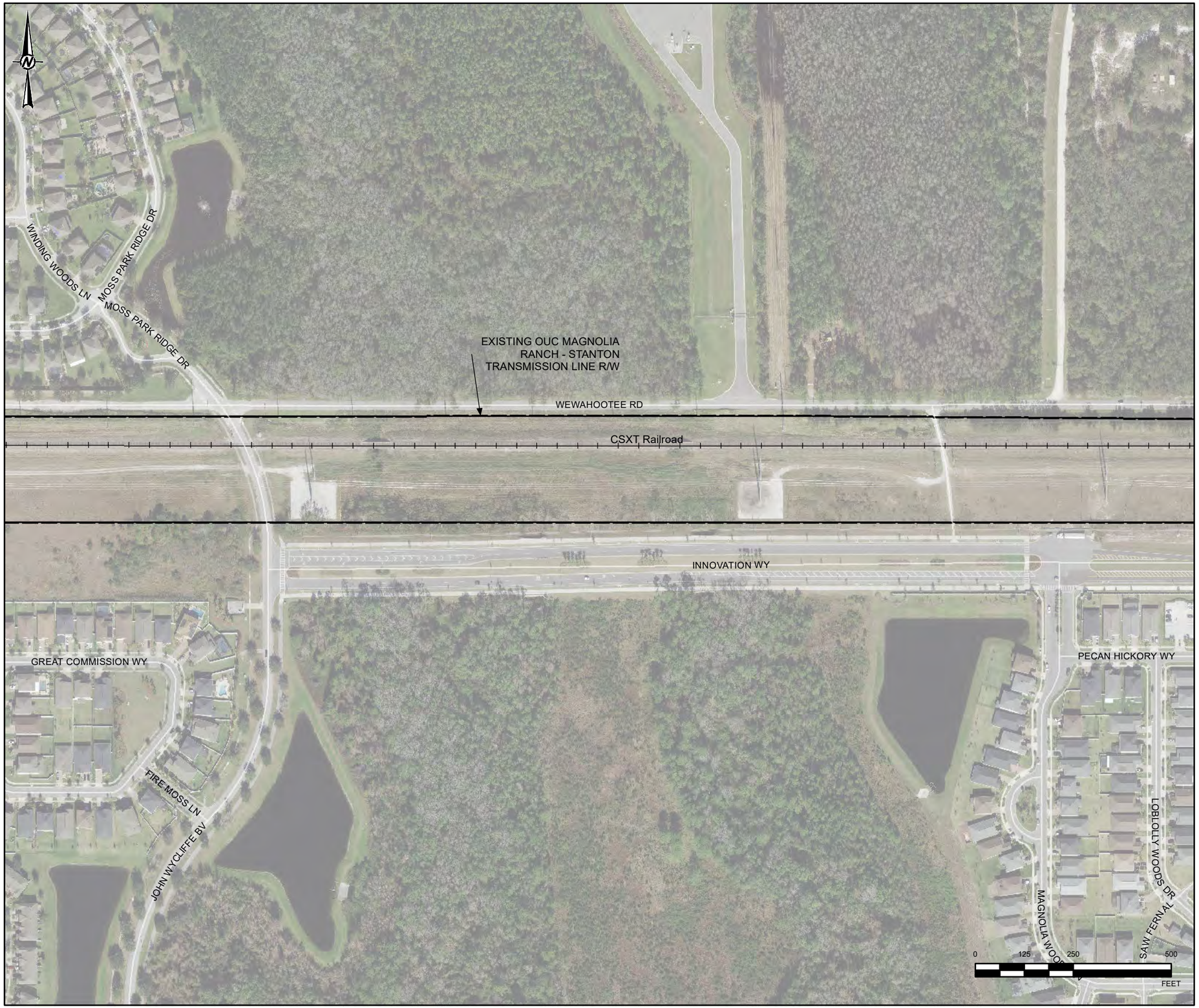

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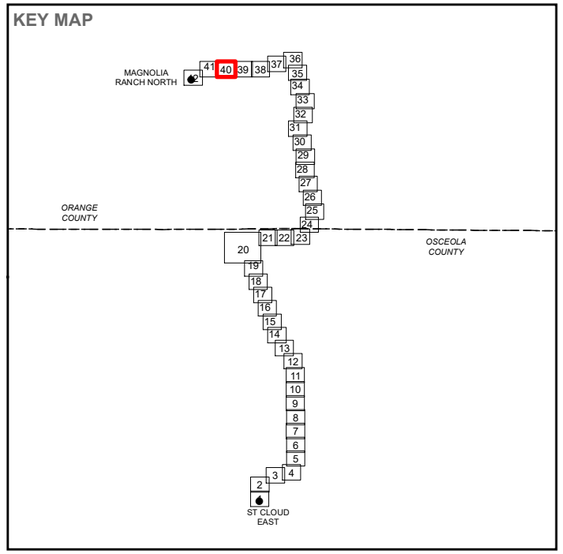

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC MAGNOLIA RANCH-STANTON TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
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COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
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CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

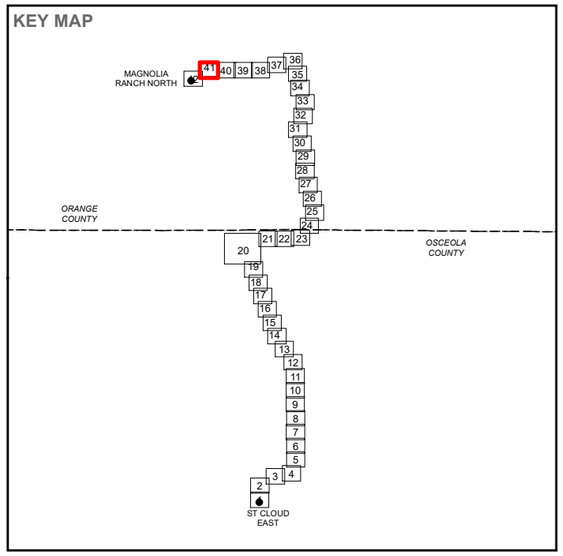
YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

PATH: G:\Projects\OUC\SiCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC MAGNOLIA RANCH-STANTON TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAVC_Permitting\02_PRODUCTION\MXD\19115515_C006_CorridorLocation.mxd

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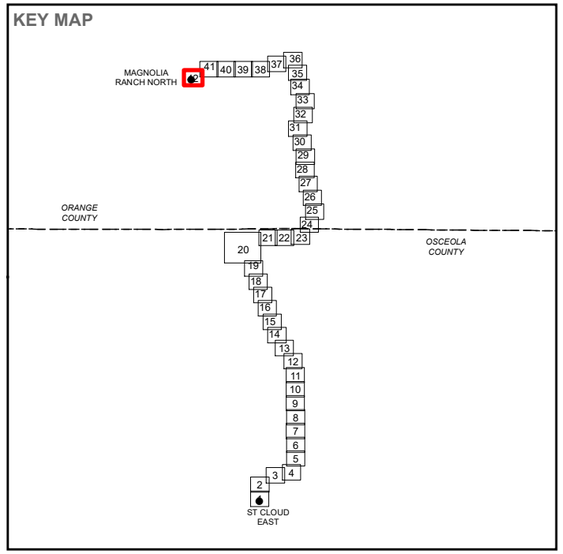

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC MAGNOLIA RANCH-STANTON TRANSMISSION LINE R/W

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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ORLANDO UTILITIES COMMISSION

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ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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ST. CLOUD EAST TO MAGNOLIA RANCH CORRIDOR LOCATION

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-03
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C006	0	2-3

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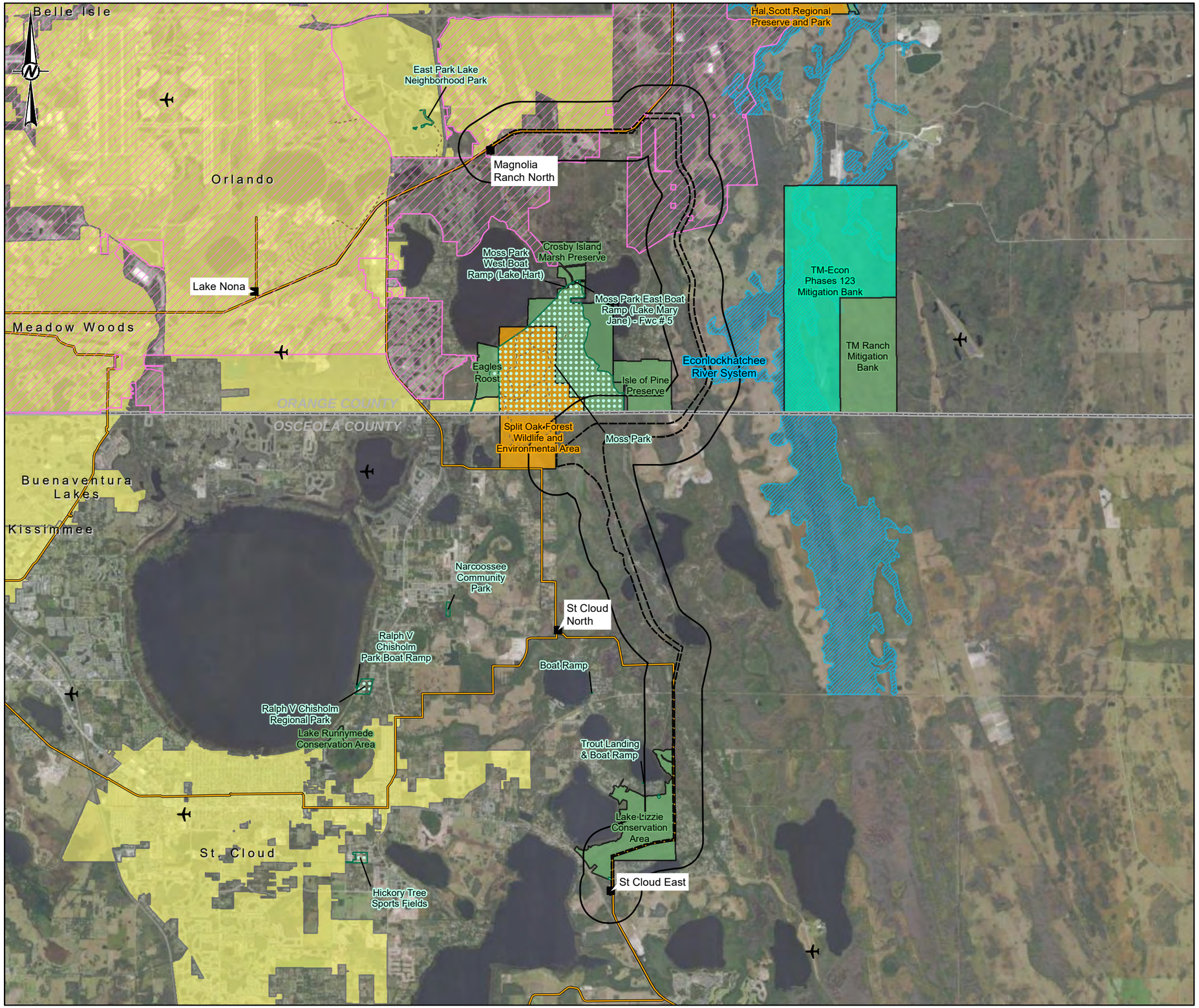


LEGEND

- EXISTING SUBSTATIONS
- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- AIRPORT
- EXISTING TRANSMISSION LINE
- EXISTING TRAIL
- MUNICIPAL PARKS
- URBAN SERVICE AREA (ORANGE COUNTY)
- OUTSTANDING FLORIDA WATERBODY
- STATE MANAGED LAND
- COUNTY MANAGED LAND
- PRIVATELY MANAGED LAND
- CITY BOUNDARY
- COUNTY BOUNDARY

0 0.875 1.75 3.5
MILES

REFERENCE(S)

1. EXISTING TRANSMISSION, EXISTING SUBSTATIONS, OAK RIDGE NATIONAL LABORATORY, 2019.
2. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
3. CONSERVATION LAND, FLORIDA MANAGED AREAS VIA FLORIDA NATURAL AREA INVENTORY, 2019.
4. AIRPORTS, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
5. COUNTY BOUNDARY, FLORIDA GEOGRAPHIC DATA LIBRARY, 2011.
6. CITY BOUNDARY, U.S. CENSUS BUREAU, 2019.
7. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
GOVERNMENTAL JURISDICTIONS

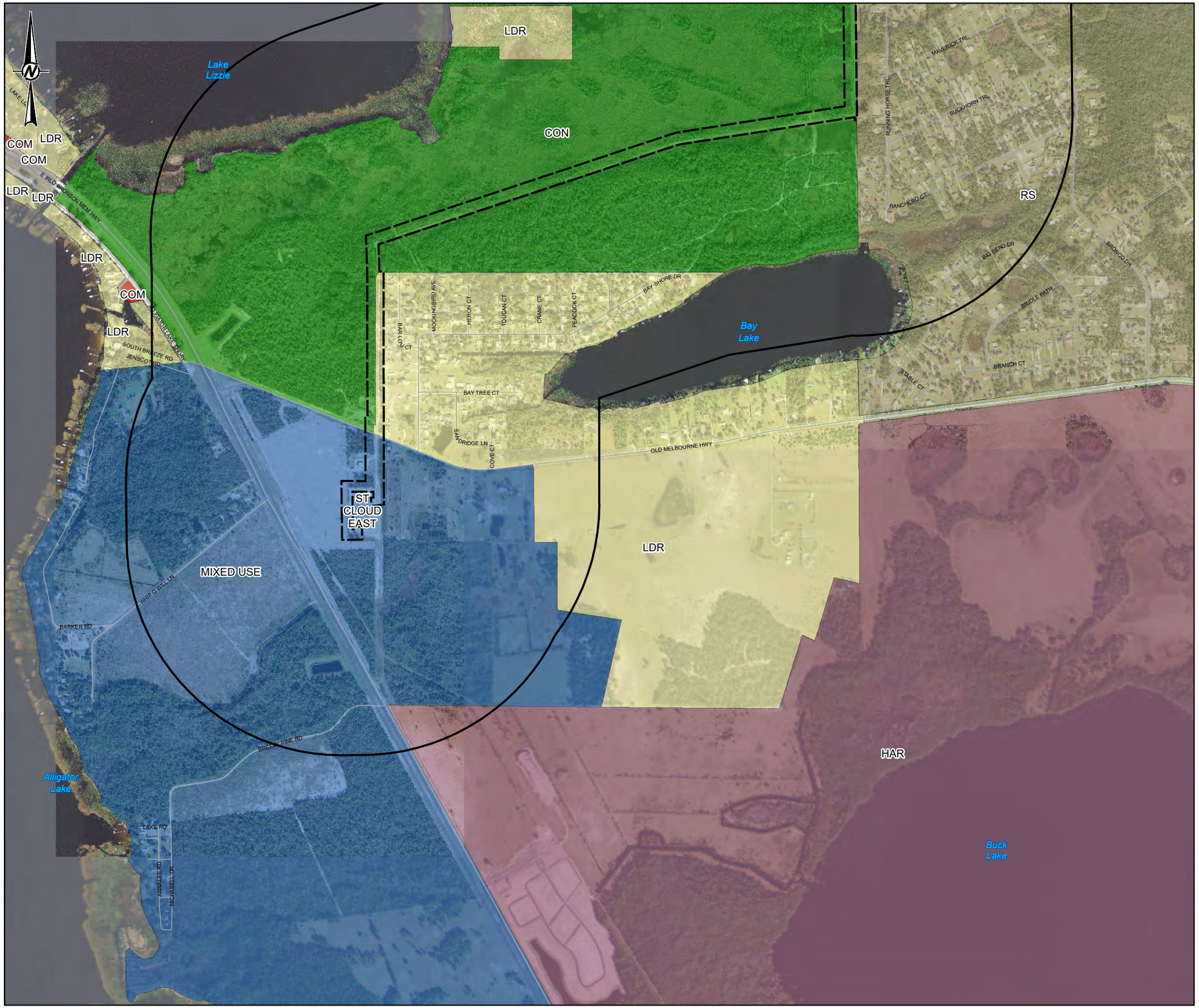
CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

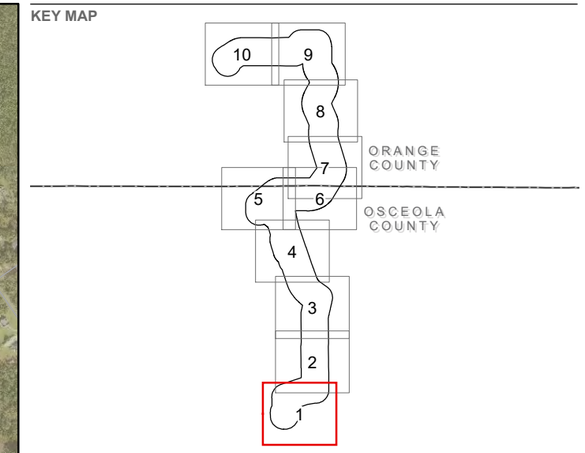
PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C007	0	2-4

PATH: G:\Projects\OUC\SCCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\02_PRODUCTION\MXD\19115515_C007_Govt_Jurisdictions.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



KEY MAP



LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

FUTURE LAND USE (OSCEOLA COUNTY)

- COMMERCIAL (COM)
- CONSERVATION (CON)
- HARMONY (HAR)
- LOW DENSITY RESIDENTIAL (LDR)
- MIXED USE
- RURAL SETTLEMENT (RS)

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. URBAN SERVICE AREA, INNOVATION WAY OVERLAY, RURAL SETTLEMENT, ECON PROTECTION ZONE, CONSERVATION, ORANGE COUNTY, 2020
3. FUTURE LAND USE, ORANGE COUNTY, CITY OF ORLANDO, & OSCEOLA COUNTY, 2019-2020
4. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
FUTURE LAND USE

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C008	0	2-5

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLS AIC_Permitting\02_PRODUCTION\MXD\19115515_C008_FLU.mxd

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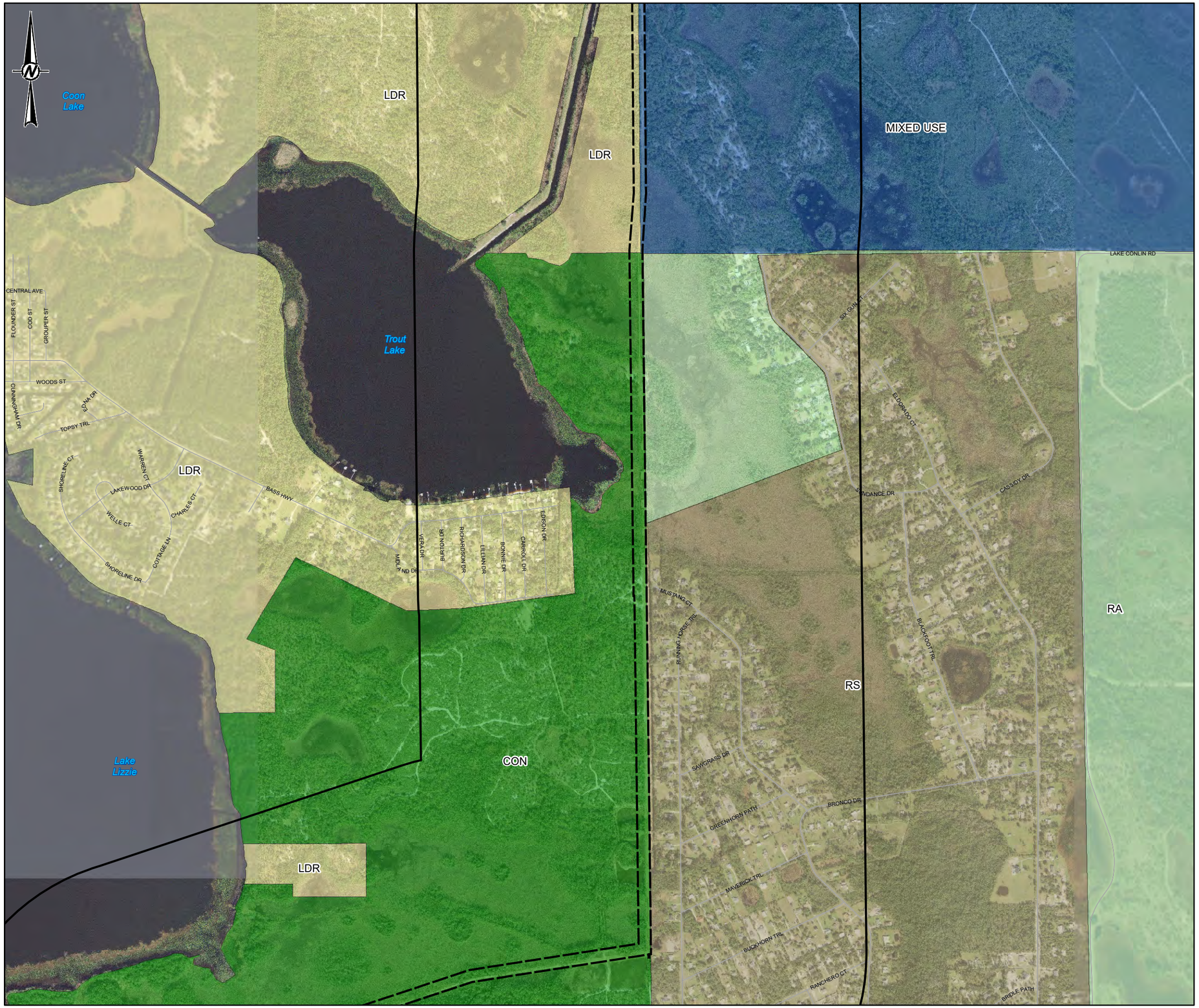

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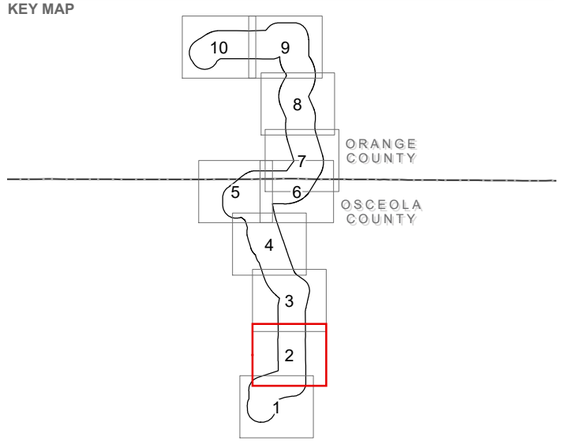

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

FUTURE LAND USE (OSCEOLA COUNTY)

- CONSERVATION (CON)
- LOW DENSITY RESIDENTIAL (LDR)
- MIXED USE
- RURAL / AGRICULTURAL (RA)
- RURAL SETTLEMENT (RS)

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. URBAN SERVICE AREA, INNOVATION WAY OVERLAY, RURAL SETTLEMENT, ECON PROTECTION ZONE, CONSERVATION, ORANGE COUNTY, 2020
3. FUTURE LAND USE, ORANGE COUNTY, CITY OF ORLANDO, & OSCEOLA COUNTY, 2019-2020
4. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
FUTURE LAND USE

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C008	0	2-5

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLS\AIC_Permitting\02_PRODUCTION\MXD\19115515_C008_FLU.mxd

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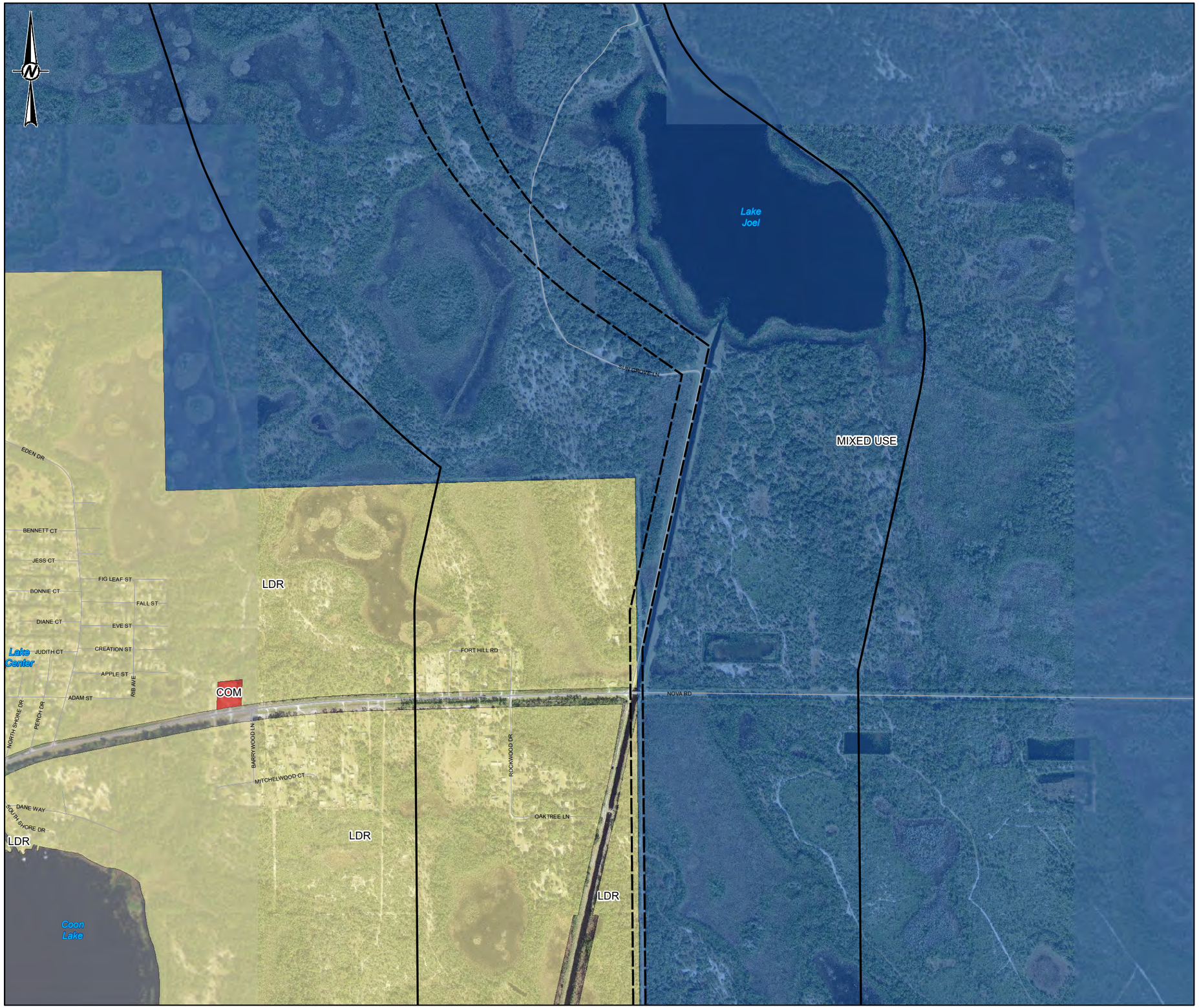

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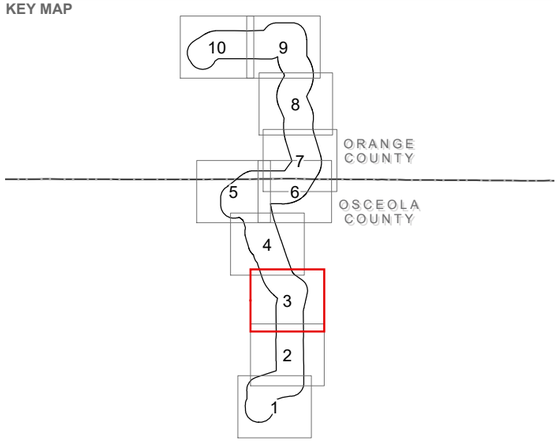

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

FUTURE LAND USE (OSCEOLA COUNTY)

- COMMERCIAL (COM)
- LOW DENSITY RESIDENTIAL (LDR)
- MIXED USE

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. URBAN SERVICE AREA, INNOVATION WAY OVERLAY, RURAL SETTLEMENT, ECON PROTECTION ZONE, CONSERVATION, ORANGE COUNTY, 2020
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4. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
FUTURE LAND USE

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C008	0	2-5

PATH: G:\Projects\OUC\SiCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLS\AIC_Permitting\02_PRODUCTION\MXD\19115515_C008_FLU.mxd

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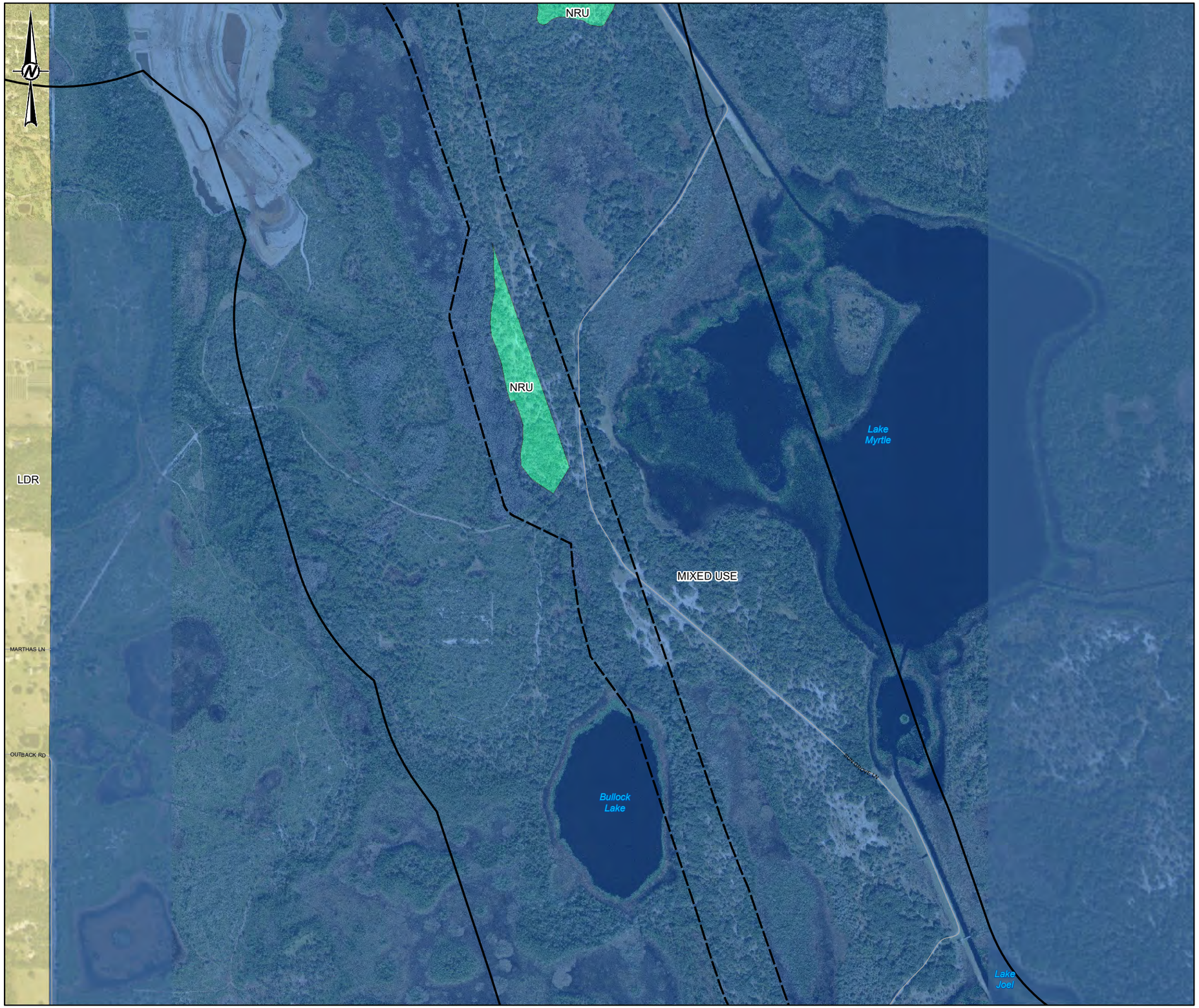

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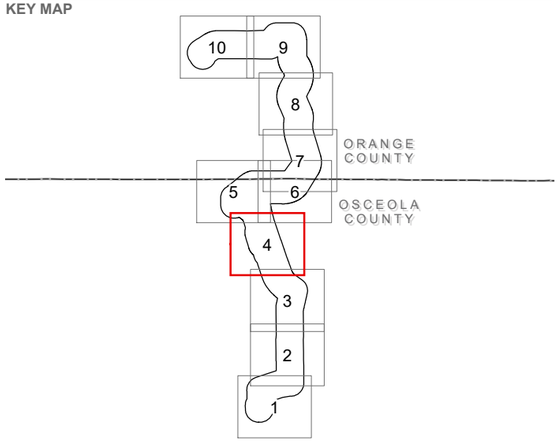

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

FUTURE LAND USE (OSCEOLA COUNTY)

- LOW DENSITY RESIDENTIAL (LDR)
- MIXED USE
- NATURAL RESOURCE UTILITY (NRU)

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. URBAN SERVICE AREA, INNOVATION WAY OVERLAY, RURAL SETTLEMENT, ECON PROTECTION ZONE, CONSERVATION, ORANGE COUNTY, 2020
3. FUTURE LAND USE, ORANGE COUNTY, CITY OF ORLANDO, & OSCEOLA COUNTY, 2019-2020
4. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
FUTURE LAND USE

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C008	0	2-5

PATH: G:\Projects\OUC\SlCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLS\AIC_Permitting\02_PRODUCTION\MXD\19115515_C008_FLU.mxd

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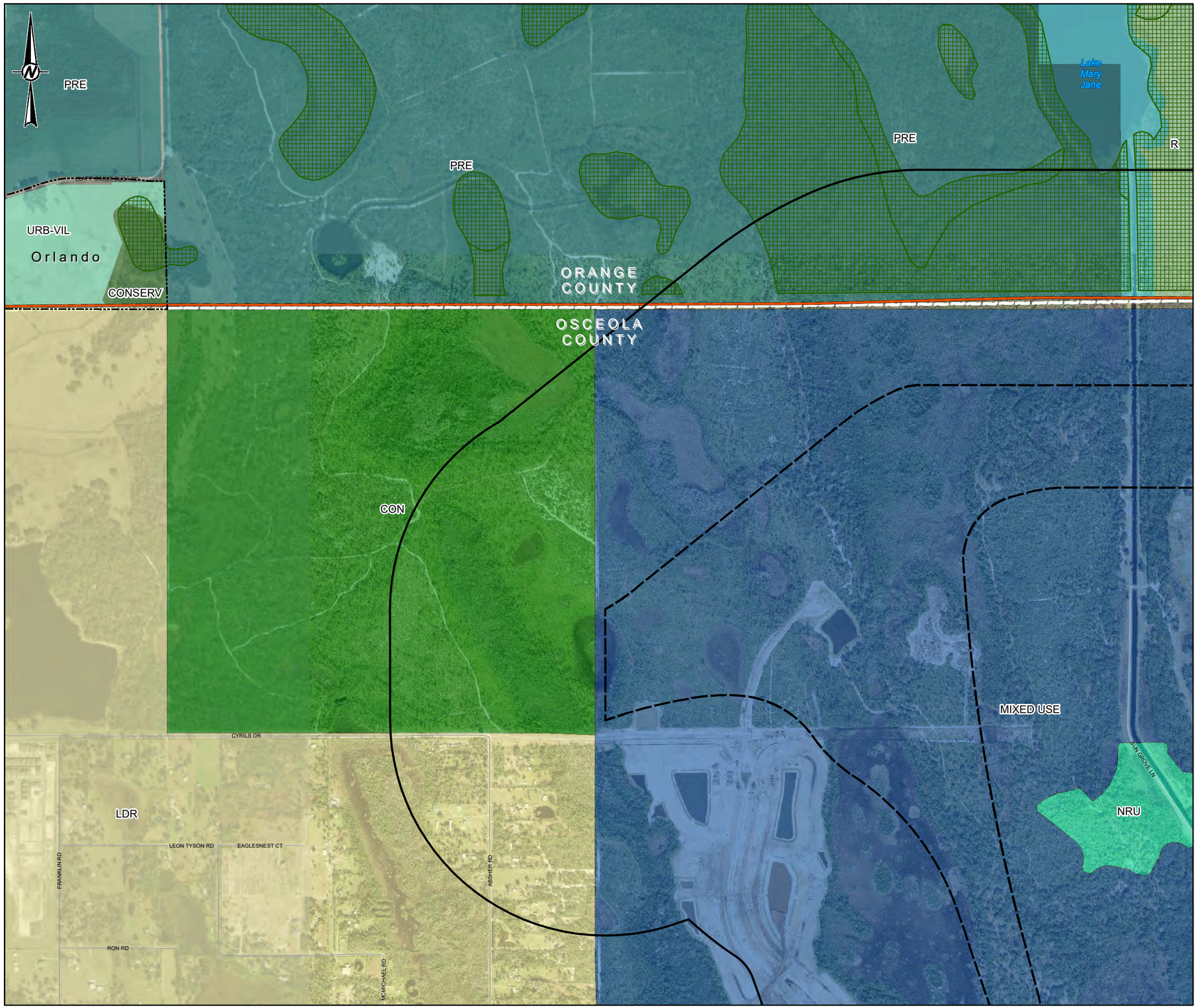

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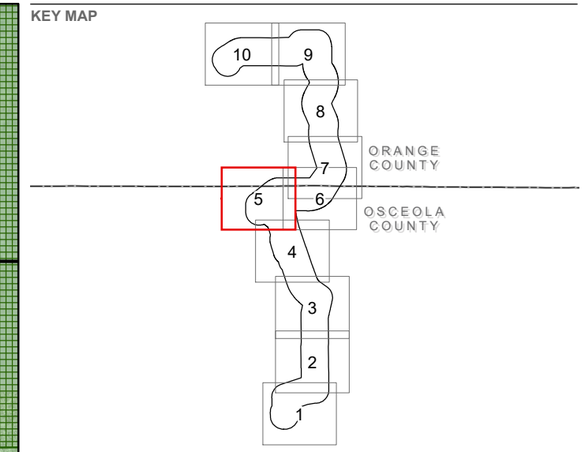

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- URBAN SERVICE AREA (ORANGE COUNTY)
- CONSERVATION (ORANGE COUNTY)
- INNOVATION WAY OVERLAY (ORANGE COUNTY)

FUTURE LAND USE (ORANGE COUNTY)

- PRESERVATION (PRE)
- RURAL (R)
- WATER BODY

FUTURE LAND USE (ORLANDO)

- URBAN VILLAGE (URB-VIL)
- CONSERVATION (CONSERV)

FUTURE LAND USE (OSCEOLA COUNTY)

- CONSERVATION (CON)
- LOW DENSITY RESIDENTIAL (LDR)
- MIXED USE
- NATURAL RESOURCE UTILITY (NRU)

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. URBAN SERVICE AREA, INNOVATION WAY OVERLAY, RURAL SETTLEMENT, ECON PROTECTION ZONE, CONSERVATION, ORANGE COUNTY, 2020
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4. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
FUTURE LAND USE

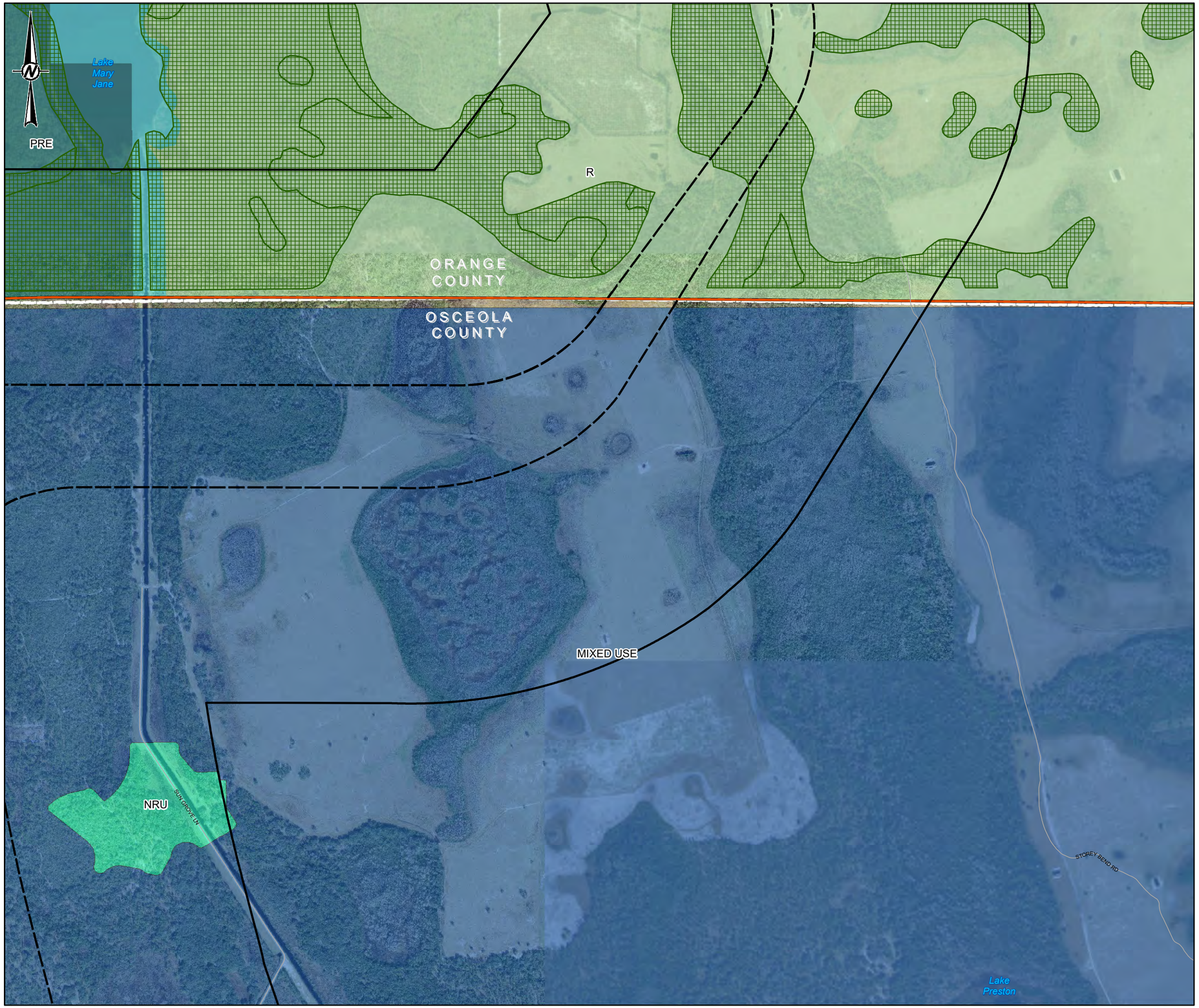
CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C008	0	**2-5**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\SCCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C008_FLU.mxd



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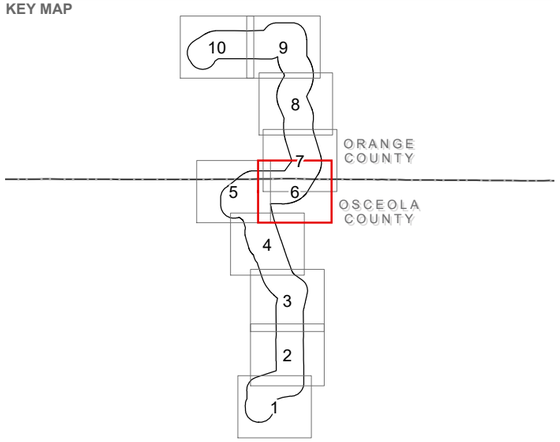


LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- URBAN SERVICE AREA (ORANGE COUNTY)
- CONSERVATION (ORANGE COUNTY)
- INNOVATION WAY OVERLAY (ORANGE COUNTY)

FUTURE LAND USE (ORANGE COUNTY)

- PRESERVATION (PRE)
- RURAL (R)
- WATER BODY

FUTURE LAND USE (OSCEOLA COUNTY)

- MIXED USE
- NATURAL RESOURCE UTILITY (NRU)

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. URBAN SERVICE AREA, INNOVATION WAY OVERLAY, RURAL SETTLEMENT, ECON PROTECTION ZONE, CONSERVATION, ORANGE COUNTY, 2020
3. FUTURE LAND USE, ORANGE COUNTY, CITY OF ORLANDO, & OSCEOLA COUNTY, 2019-2020
4. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
FUTURE LAND USE

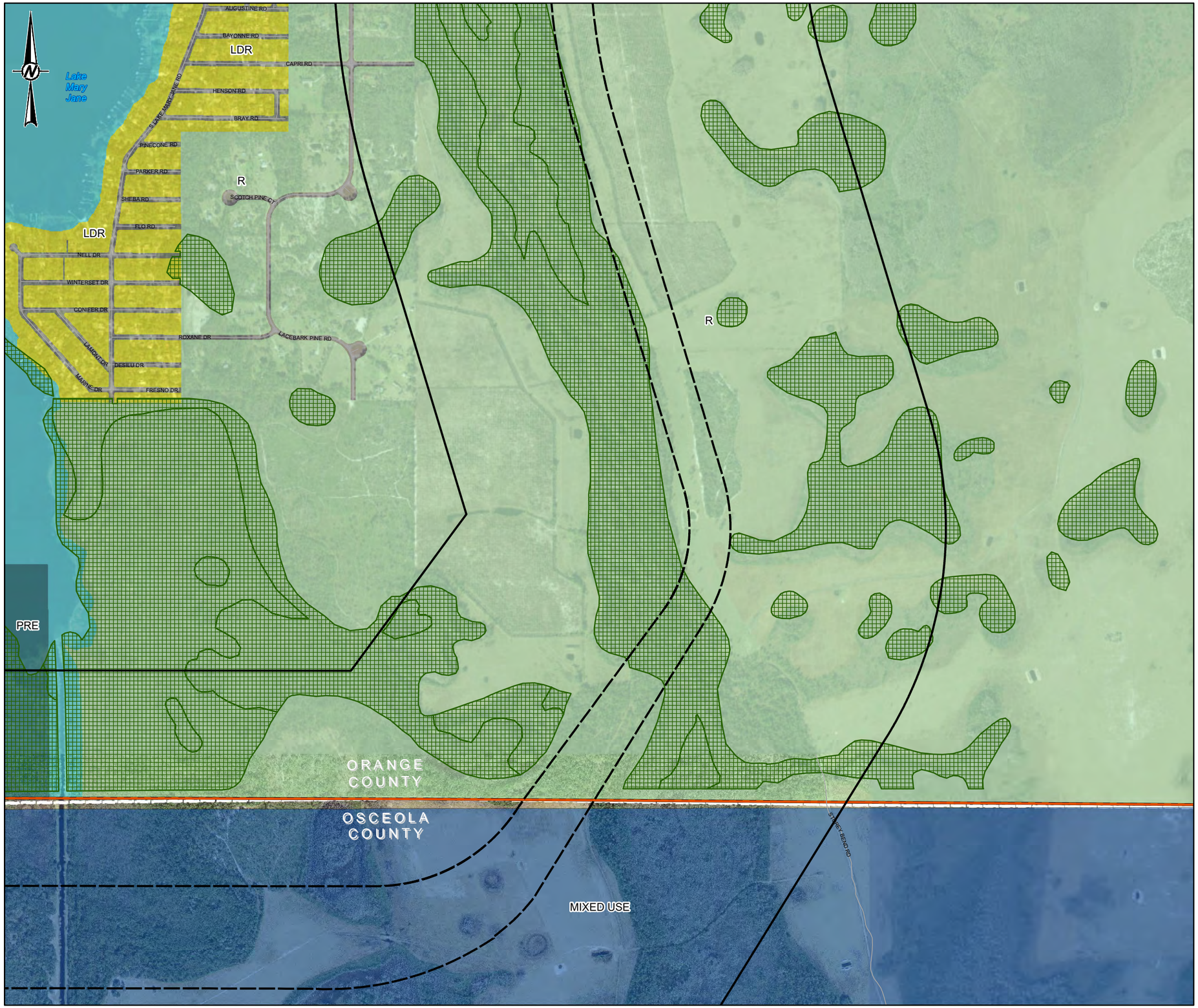
CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C008	0	2-5

PATH: G:\Projects\OUC\SlCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLS AIC_Permitting\02_PRODUCTION\MXD\19115515_C008_FLU.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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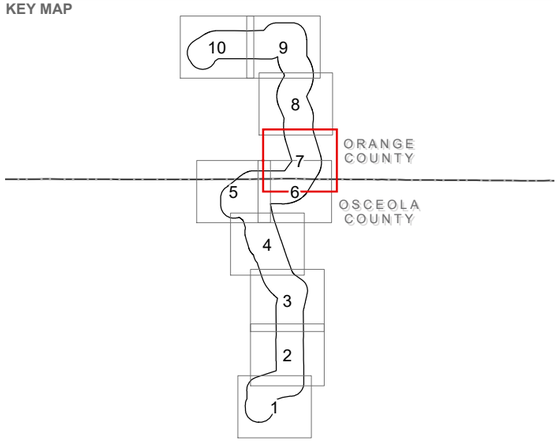

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- URBAN SERVICE AREA (ORANGE COUNTY)
- CONSERVATION (ORANGE COUNTY)
- INNOVATION WAY OVERLAY (ORANGE COUNTY)

FUTURE LAND USE (ORANGE COUNTY)

- LOW DENSITY RESIDENTIAL (LDR)
- PRESERVATION (PRE)
- RURAL (R)
- WATER BODY

FUTURE LAND USE (OSCEOLA COUNTY)

- MIXED USE

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. URBAN SERVICE AREA, INNOVATION WAY OVERLAY, RURAL SETTLEMENT, ECON PROTECTION ZONE, CONSERVATION, ORANGE COUNTY, 2020
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4. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
FUTURE LAND USE

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C008	0	2-5

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAVC_Permitting\02_PRODUCTION\MXD\19115515_C008_FLU.mxd

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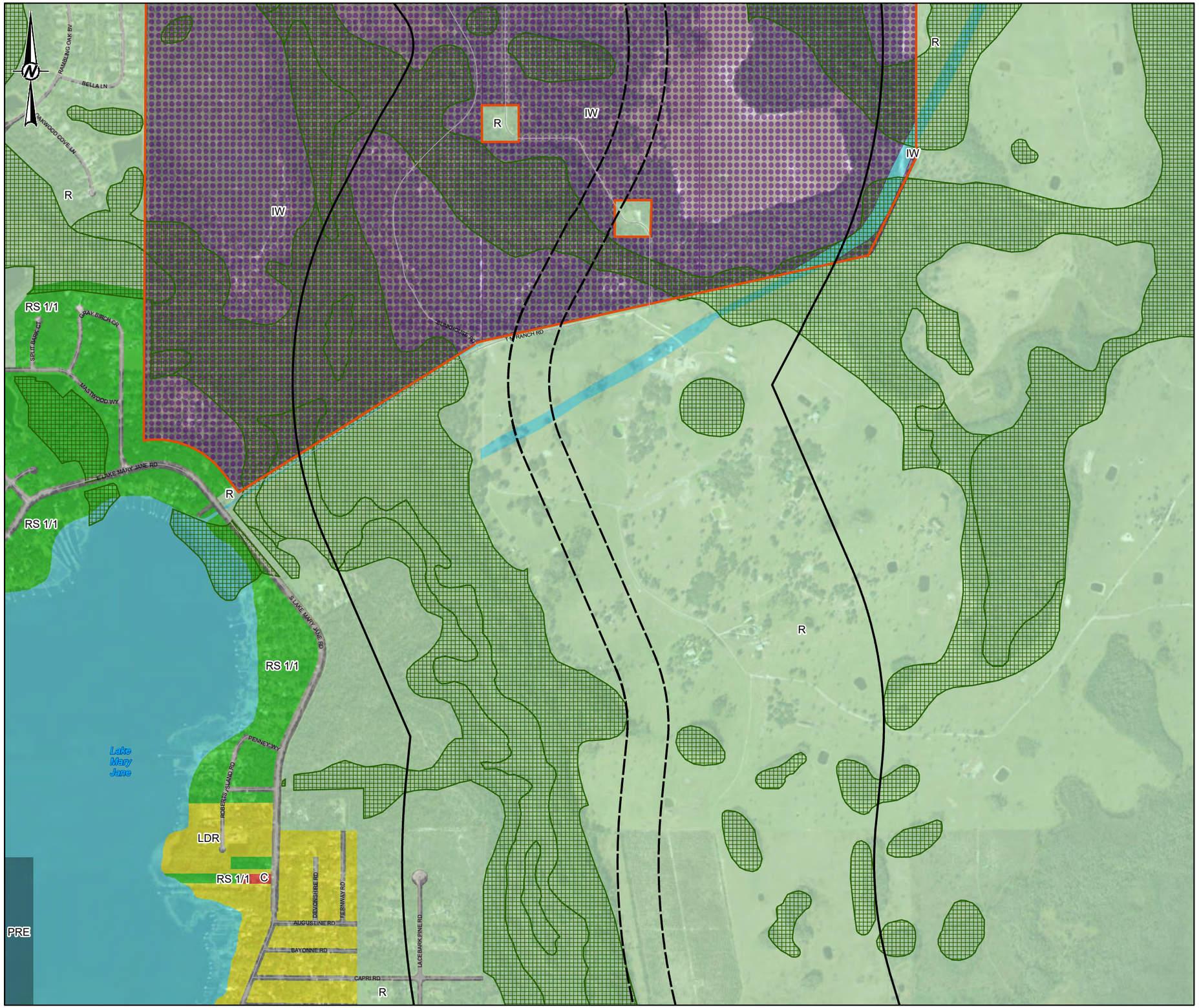

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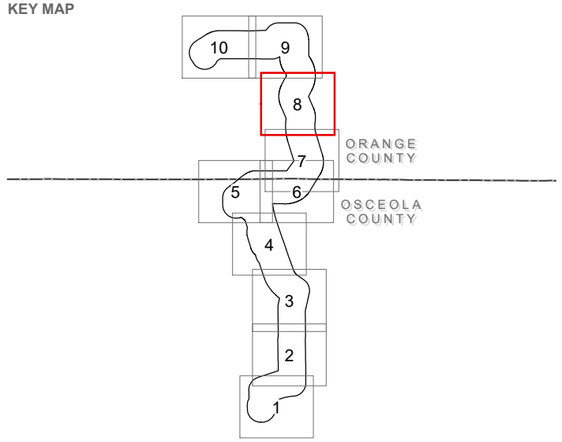

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- URBAN SERVICE AREA (ORANGE COUNTY)
- CONSERVATION (ORANGE COUNTY)
- INNOVATION WAY OVERLAY (ORANGE COUNTY)

FUTURE LAND USE (ORANGE COUNTY)

- COMMERCIAL (C)
- INNOVATION WAY (IW)
- LOW DENSITY RESIDENTIAL (LDR)
- PRESERVATION (PRE)
- RURAL (R)
- RURAL 1/1 (RS 1/1)
- WATER BODY

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. URBAN SERVICE AREA, INNOVATION WAY OVERLAY, RURAL SETTLEMENT, ECON PROTECTION ZONE, CONSERVATION, ORANGE COUNTY, 2020
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4. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
FUTURE LAND USE

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C008	0	2-5

PATH: G:\Projects\OUC\SlCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\02_PRODUCTION\MXD\19115515_C008_FLU.mxd

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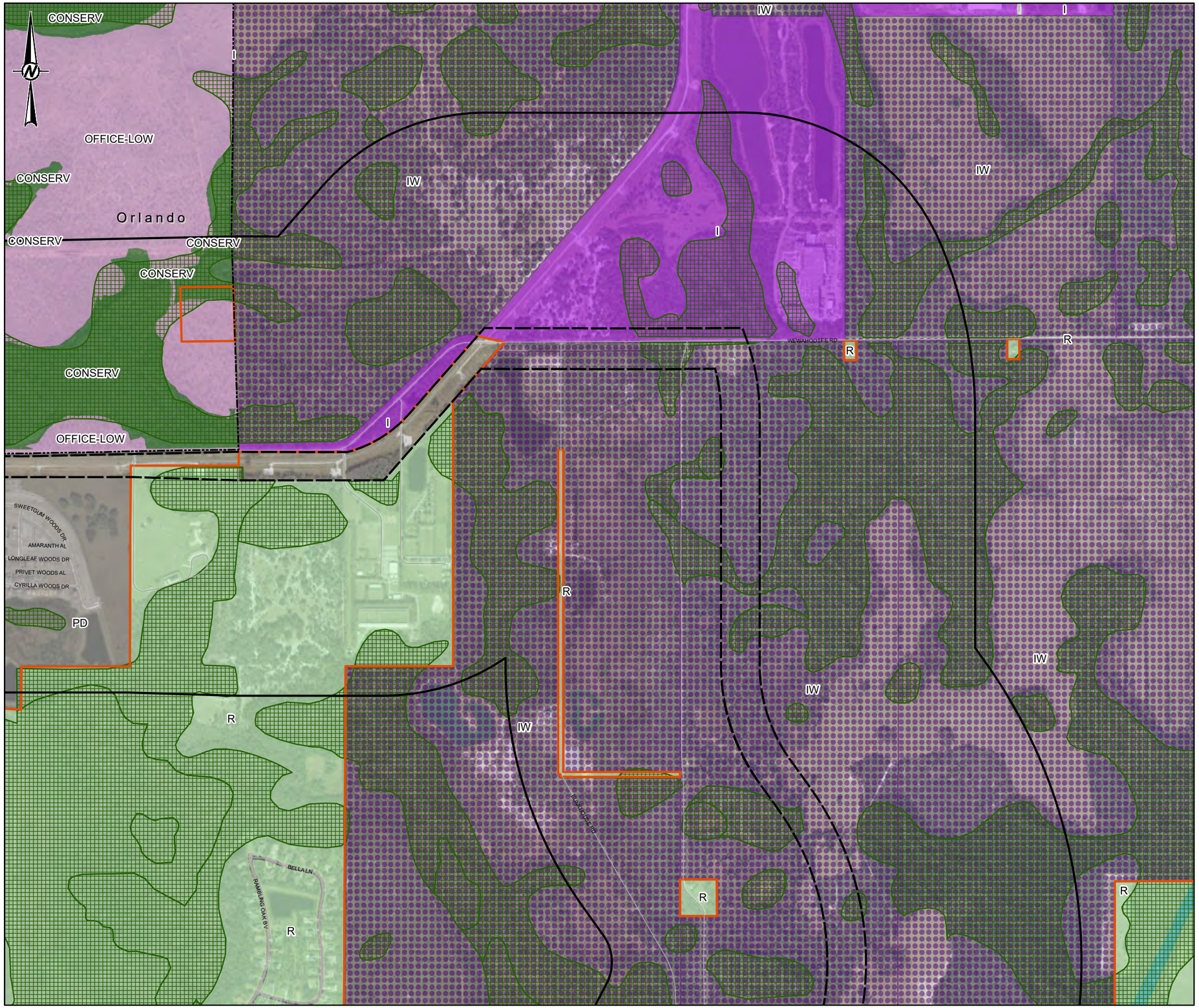

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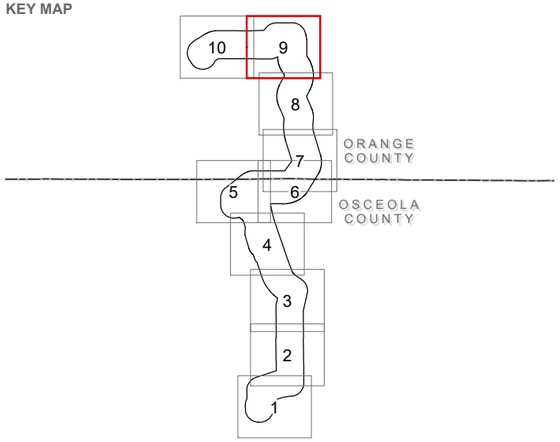

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- URBAN SERVICE AREA (ORANGE COUNTY)
- CONSERVATION (ORANGE COUNTY)
- INNOVATION WAY OVERLAY (ORANGE COUNTY)

FUTURE LAND USE (ORANGE COUNTY)

- INDUSTRIAL (I)
- INNOVATION WAY (IW)
- PLANNED DEVELOPMENT (PD)
- RURAL (R)
- WATER BODY

FUTURE LAND USE (ORLANDO)

- OFFICE LOW INTENSITY (OFFICE-LOW)
- CONSERVATION (CONSERV)

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. URBAN SERVICE AREA, INNOVATION WAY OVERLAY, RURAL SETTLEMENT, ECON PROTECTION ZONE, CONSERVATION, ORANGE COUNTY, 2020
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COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
FUTURE LAND USE

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C008	0	2-5

PATH: G:\Projects\OUC\SICloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\92_PRODUCTION\MXD\19115515_C008_FLU.mxd

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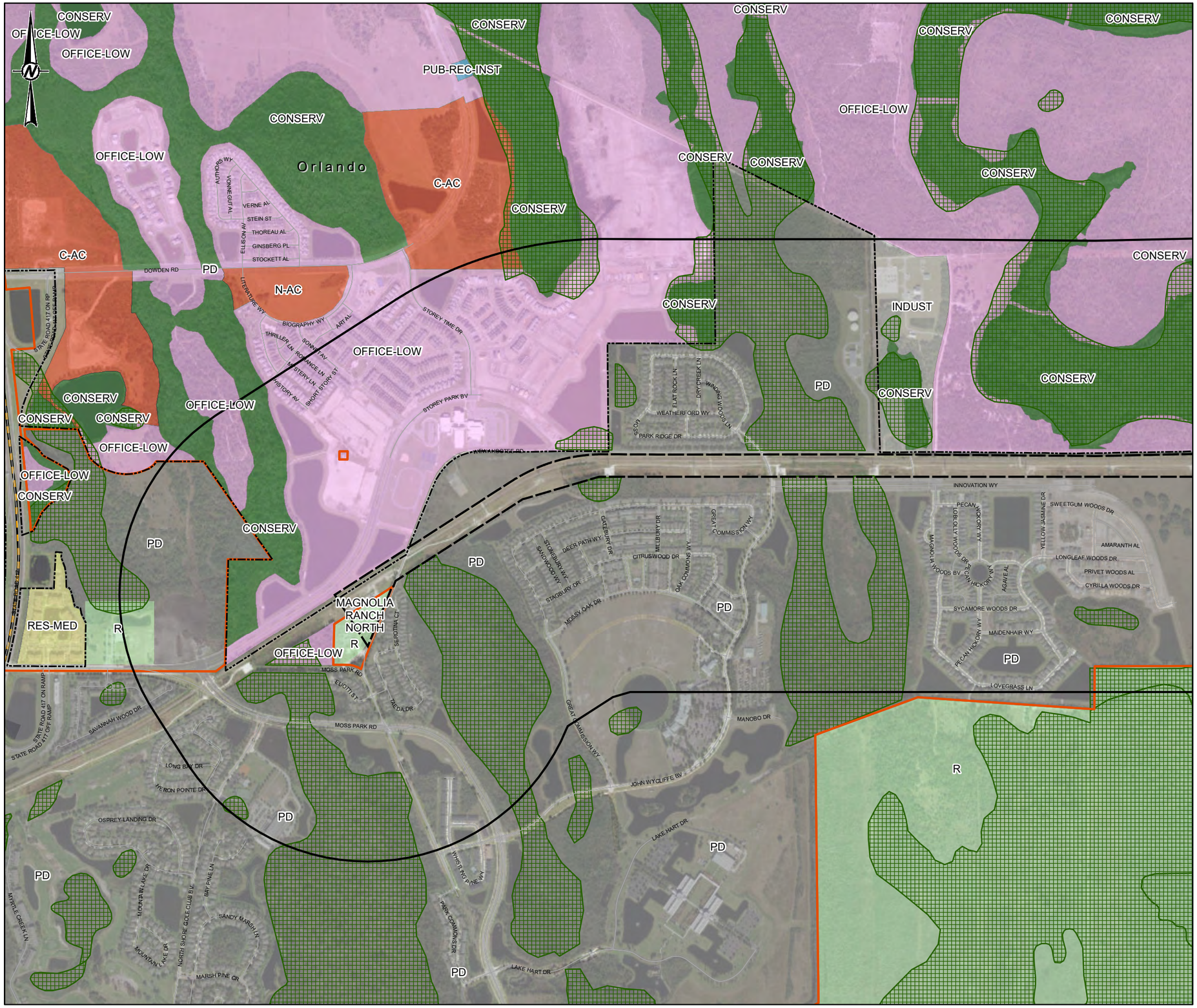
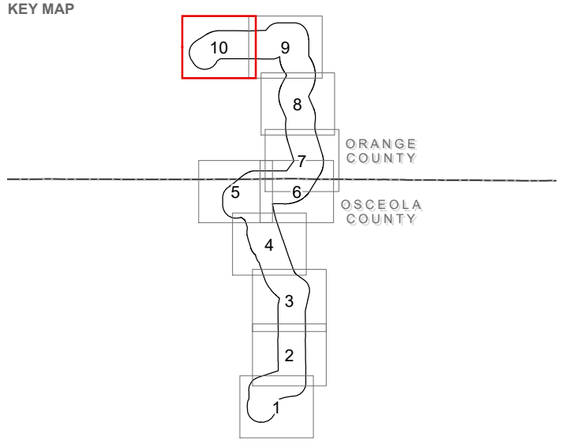


KEY MAP



LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- URBAN SERVICE AREA (ORANGE COUNTY)
- CONSERVATION (ORANGE COUNTY)
- INNOVATION WAY OVERLAY (ORANGE COUNTY)

FUTURE LAND USE (ORANGE COUNTY)

- PLANNED DEVELOPMENT (PD)
- RURAL (R)

FUTURE LAND USE (ORLANDO)

- RESIDENTIAL MEDIUM INTENSITY (RES-MED)
- OFFICE LOW INTENSITY (OFFICE-LOW)
- NEIGHBORHOOD ACTIVITY CENTER (N-AC)
- COMMUNITY ACTIVITY CENTER (C-AC)
- INDUSTRIAL (INDUST)
- URBAN VILLAGE (URB-VIL)
- PUBLIC/RECREATIONAL & INSTITUTIONAL (PUB-REC-INST)
- CONSERVATION (CONSERV)

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. URBAN SERVICE AREA, INNOVATION WAY OVERLAY, RURAL SETTLEMENT, ECON PROTECTION ZONE, CONSERVATION, ORANGE COUNTY, 2020
3. FUTURE LAND USE, ORANGE COUNTY, CITY OF ORLANDO, & OSCEOLA COUNTY, 2019-2020
4. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
FUTURE LAND USE

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C008	0	2-5

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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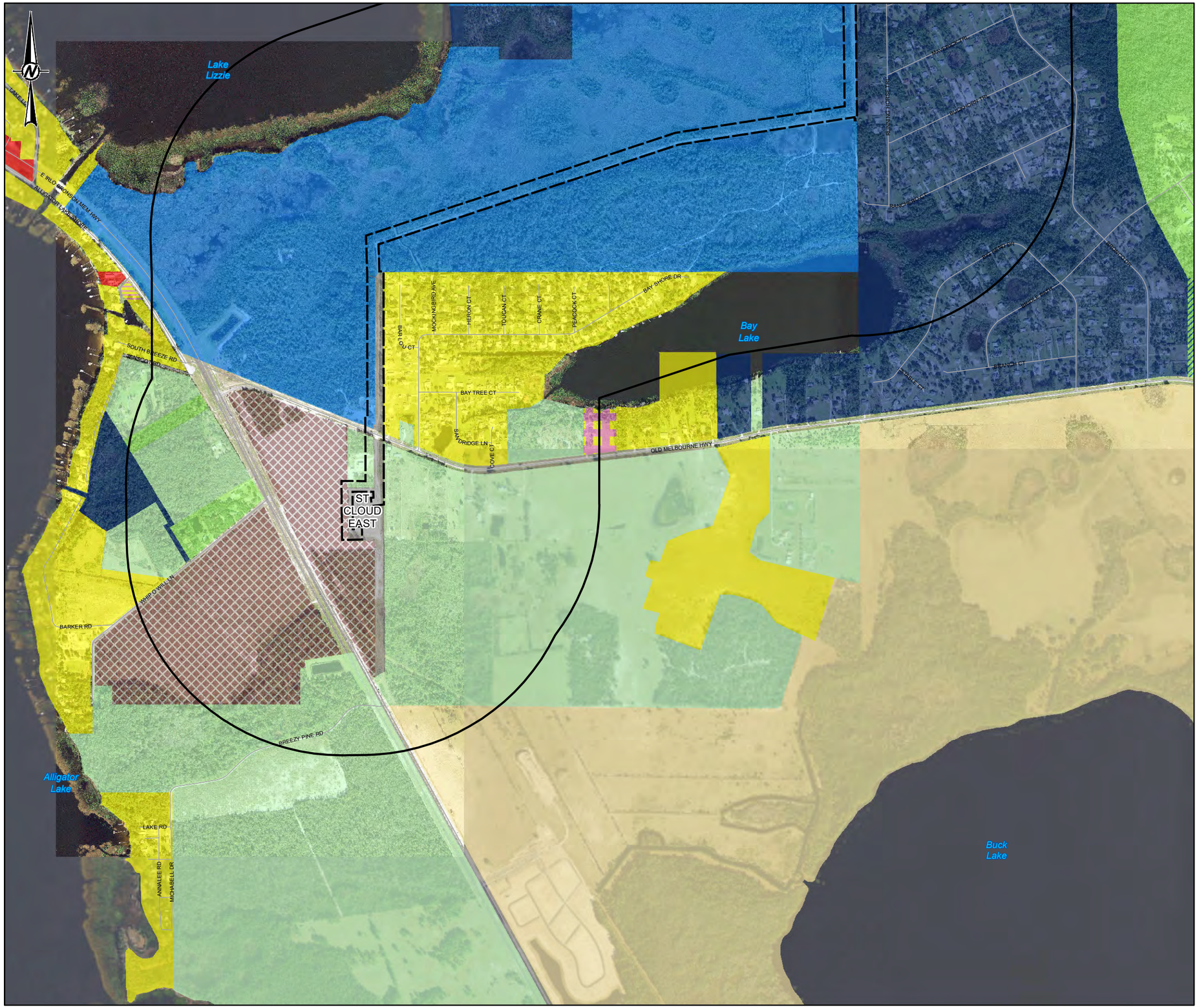

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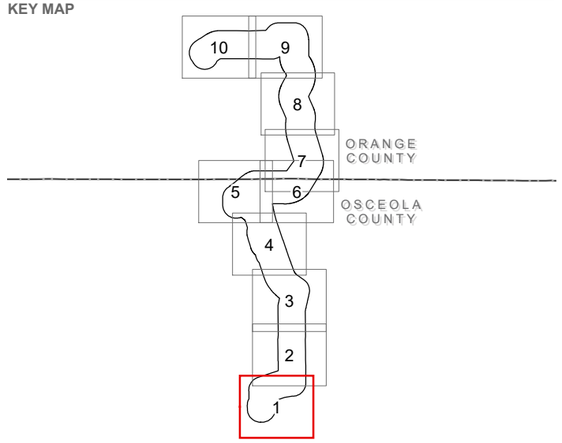

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

ZONING (OSCEOLA COUNTY)

- AGRICULTURAL
- COMMERCIAL
- ESTATE
- INDUSTRIAL
- INSTITUTIONAL
- MIXED USE
- PLAN DEVELOPMENT
- RESIDENTIAL
- RESIDENTIAL PROFESSIONAL BUSINESS
- RURAL
- RURAL SETTLEMENT
- URBAN SETTLEMENT

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. ZONING, ORANGE COUNTY, CITY OF ORLANDO, & OSCEOLA COUNTY, 2017-2020
3. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ZONING

CONSULTANT
OUC The Reliable One

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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C009	0	2-6

PATH: G:\Projects\OUC\SCCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\02_PRODUCTION\MXD\19115515_C009_Zoning.mxd

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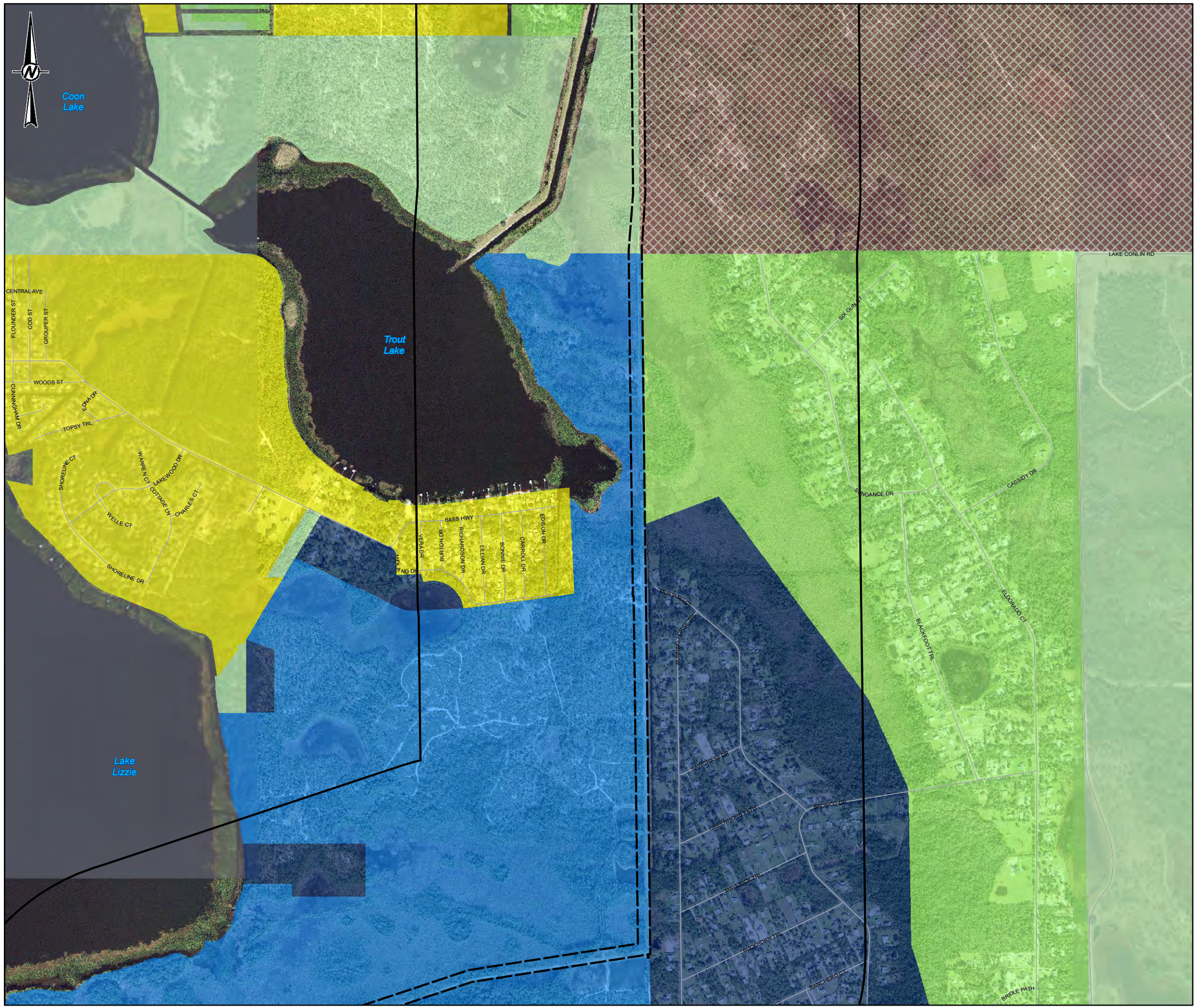

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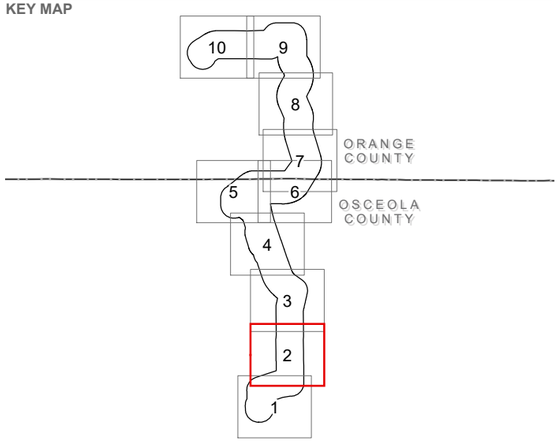

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

ZONING (OSCEOLA COUNTY)

- AGRICULTURAL
- ESTATE
- INSTITUTIONAL
- MIXED USE
- RESIDENTIAL
- RURAL

0 600 1,200 2,400
Feet

REFERENCE(S)

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2. ZONING, ORANGE COUNTY, CITY OF ORLANDO, & OSCEOLA COUNTY, 2017-2020
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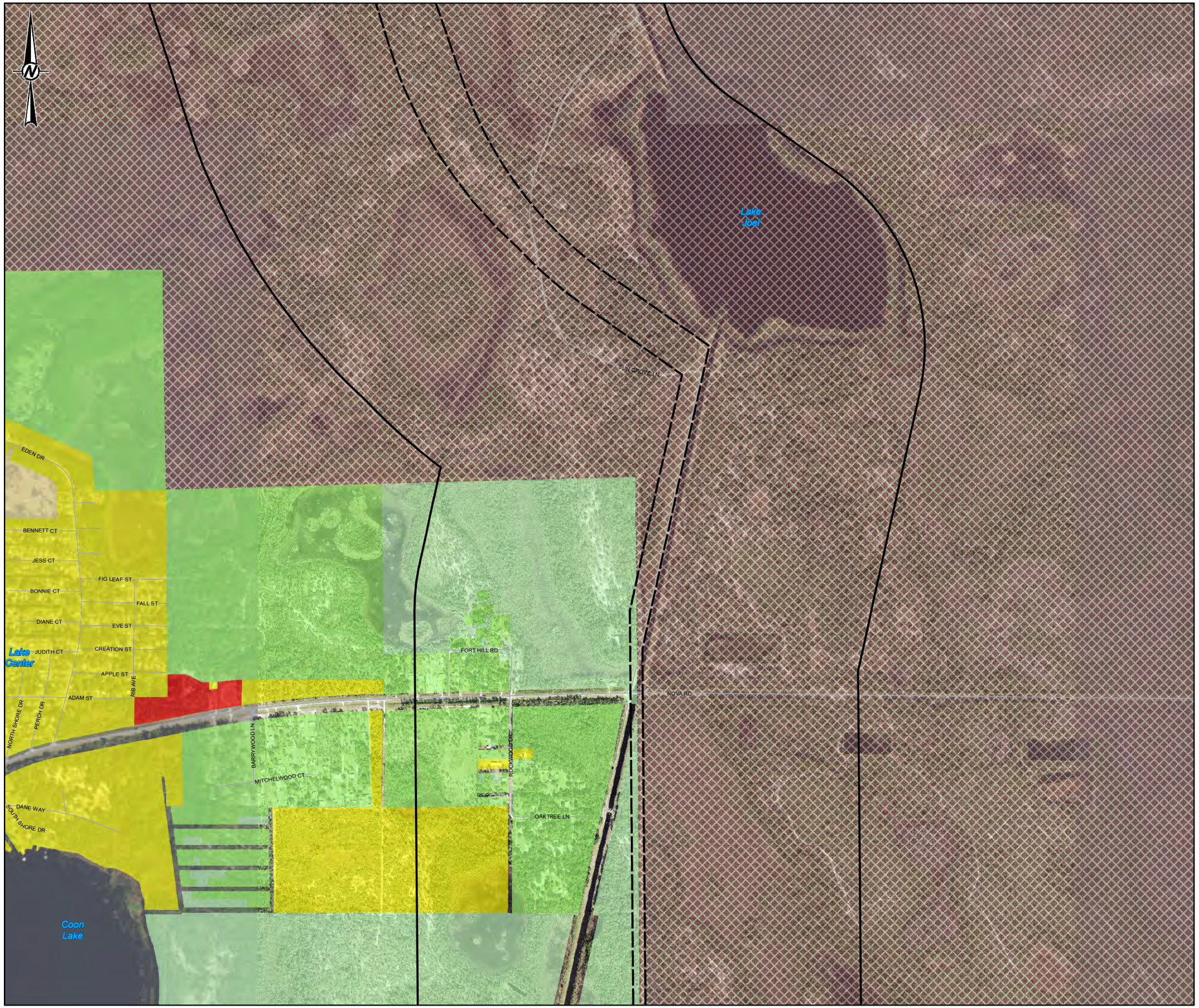

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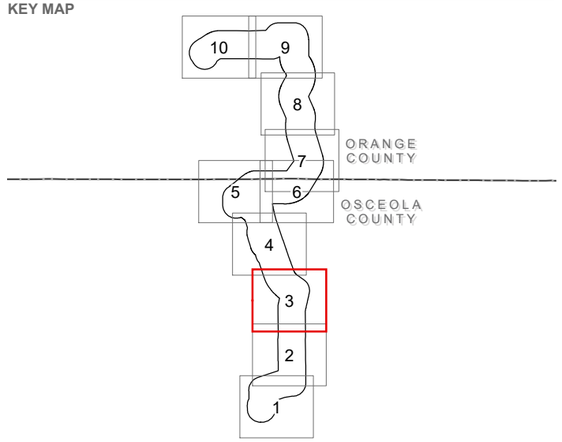

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

ZONING (OSCEOLA COUNTY)

- AGRICULTURAL
- COMMERCIAL
- MIXED USE
- PLAN DEVELOPMENT
- RESIDENTIAL
- RURAL

0 600 1,200 2,400
Feet

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C009	0	2-6

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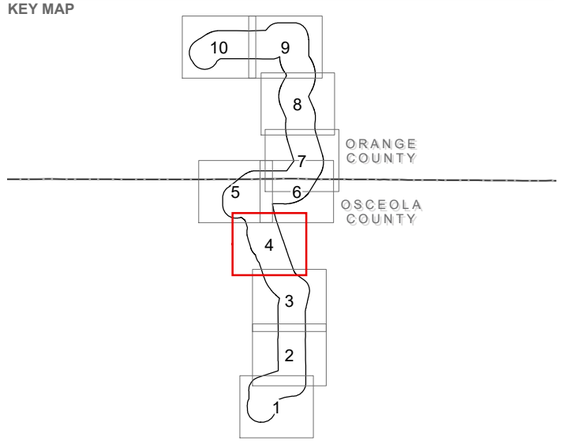

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

ZONING (OSCEOLA COUNTY)

- AGRICULTURAL
- MIXED USE

0 600 1,200 2,400
Feet

REFERENCE(S)

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PROJECTION: TRANSVERSE MERCATOR
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C009	0	**2-6**

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLS\AIC_Permitting\02_PRODUCTION\MXD\19115515_C009_Zoning.mxd

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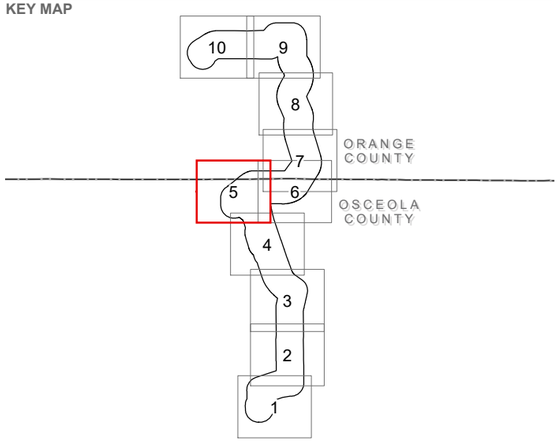

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

ZONING (OSCEOLA COUNTY)

- AGRICULTURAL
- MIXED USE
- PLAN RESIDENTIAL DEVELOPMENT
- RESIDENTIAL
- RURAL
- URBAN SETTLEMENT

ZONING (ORLANDO)

- PLANNED DEVELOPMENT

ZONING (ORANGE COUNTY)

- FARMLAND RURAL
- RESIDENTIAL

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
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ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
ZONING

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OUC The Reliable One

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C009	0	**2-6**

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\02_PRODUCTION\MXD\19115515_C009_Zoning.mxd

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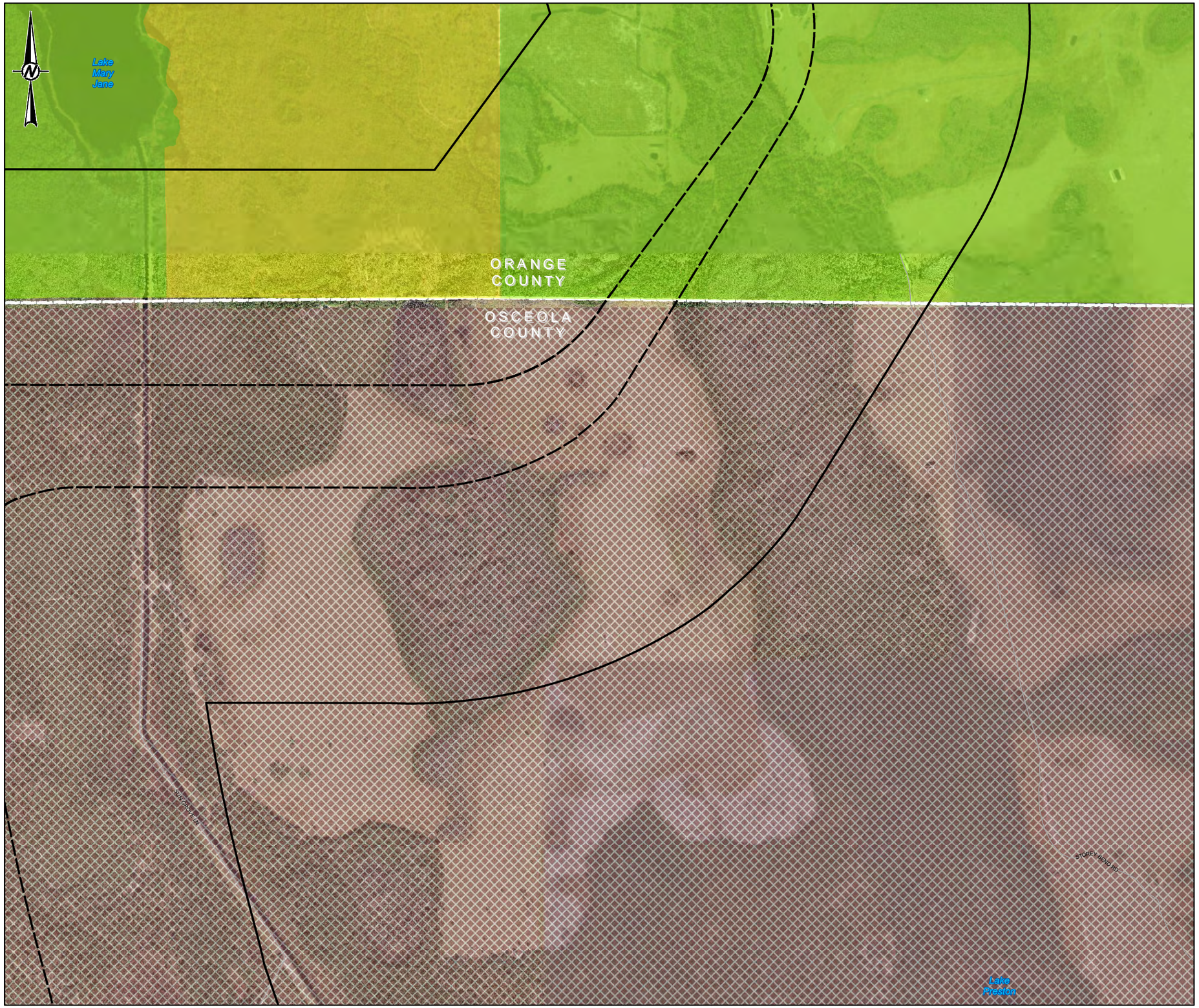

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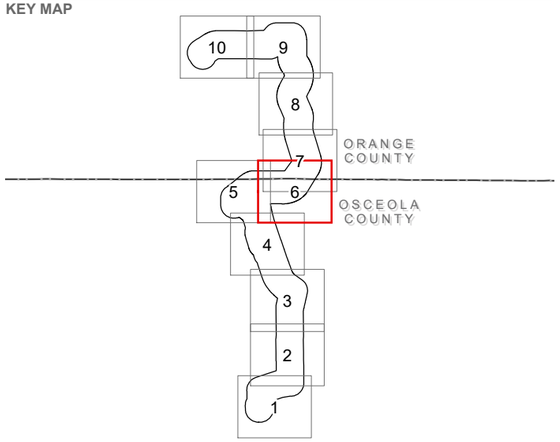

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

ZONING (OSCEOLA COUNTY)

- MIXED USE

ZONING (ORANGE COUNTY)

- FARMLAND RURAL
- RESIDENTIAL

0 600 1,200 2,400
Feet

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C009	0	2-6

PATH: G:\Projects\OUC\SICloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\02_PRODUCTION\MXD\19115515_C009_Zoning.mxd

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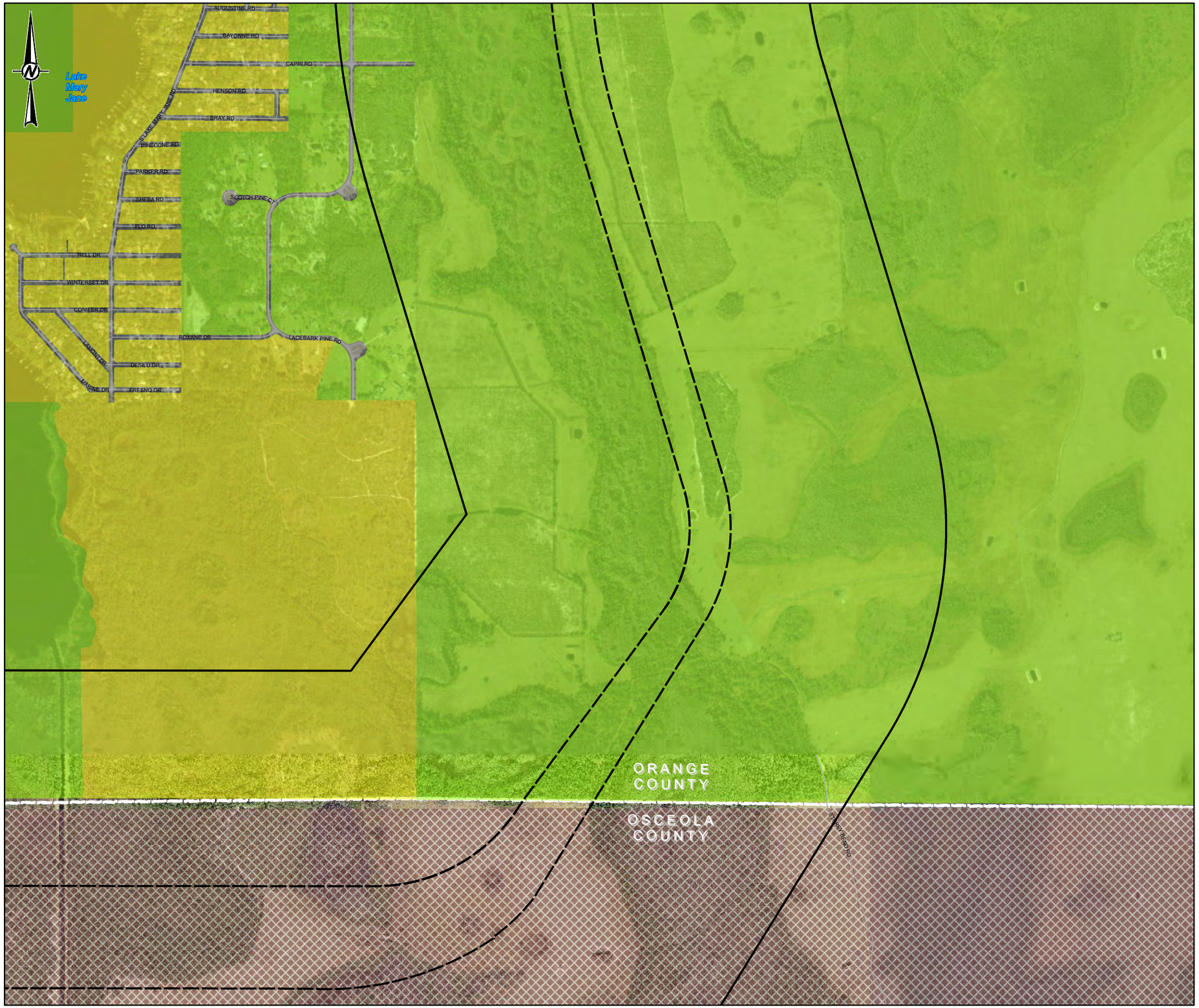

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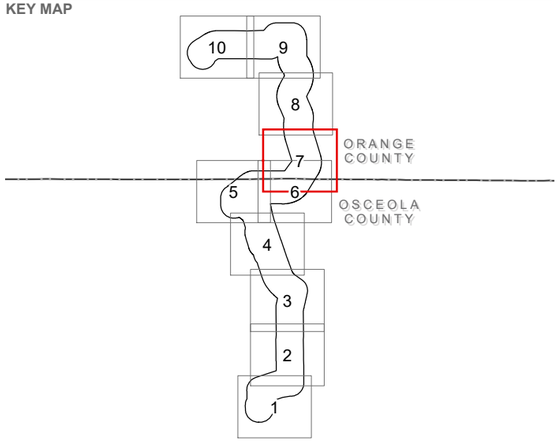

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

ZONING (OSCEOLA COUNTY)

- MIXED USE

ZONING (ORANGE COUNTY)

- FARMLAND RURAL
- RESIDENTIAL

0 600 1,200 2,400
Feet

REFERENCE(S)

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2. ZONING, ORANGE COUNTY, CITY OF ORLANDO, & OSCEOLA COUNTY, 2017-2020
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19115515	C009	0	**2-6**

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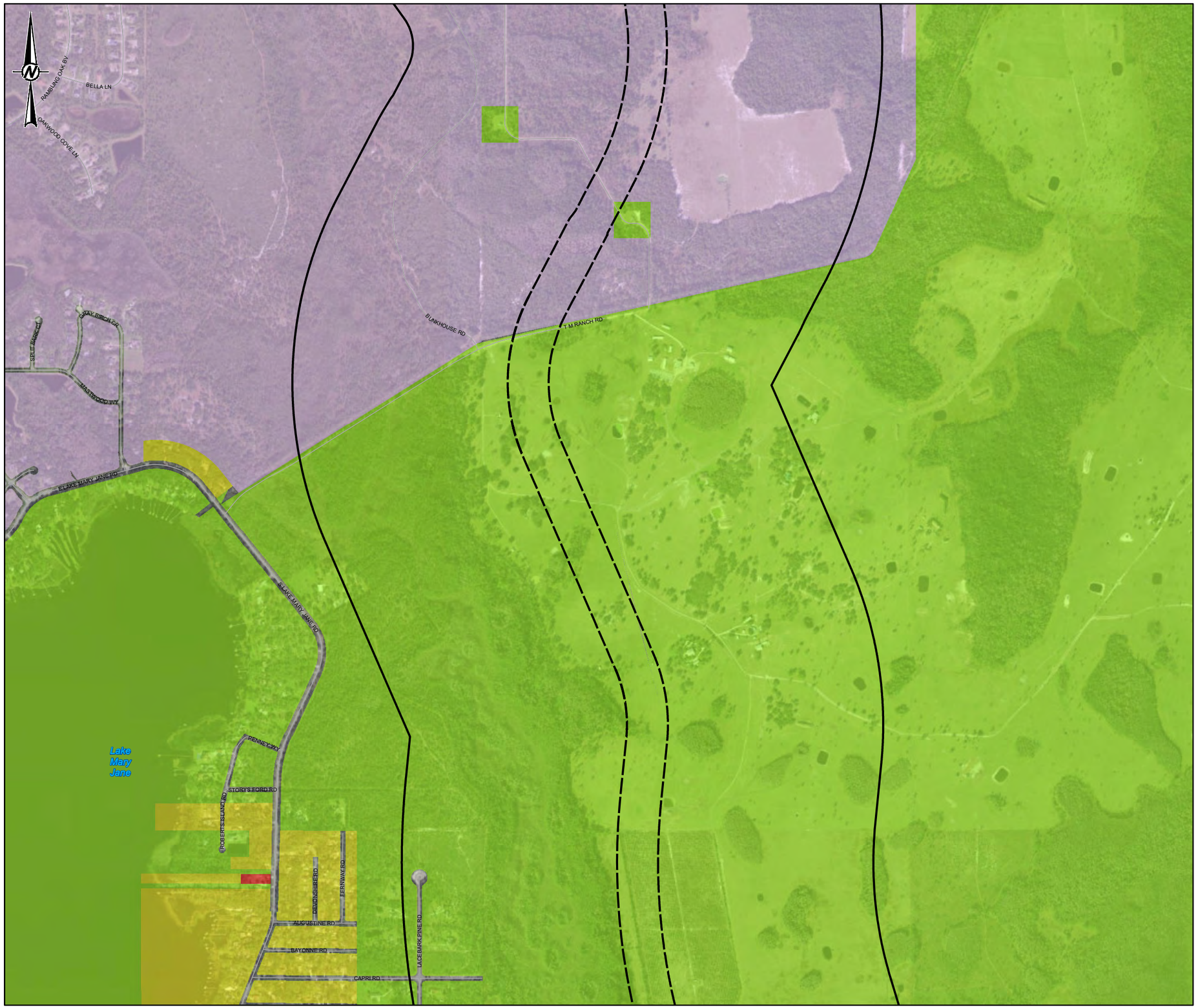

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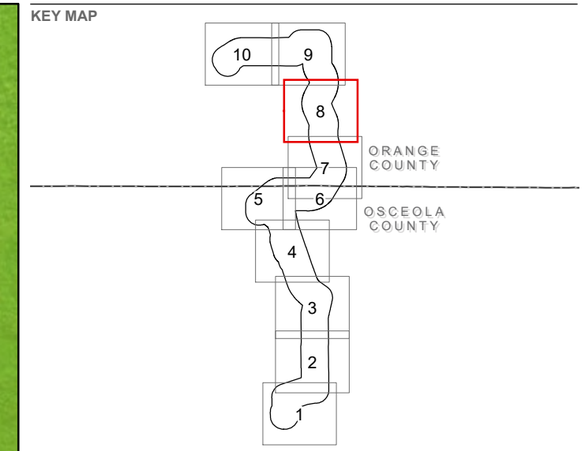

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

ZONING (ORANGE COUNTY)

- COMMERCIAL
- FARMLAND RURAL
- PLANNED DEVELOPMENT
- RESIDENTIAL

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. ZONING, ORANGE COUNTY, CITY OF ORLANDO, & OSCEOLA COUNTY, 2017-2020
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C009	0	**2-6**

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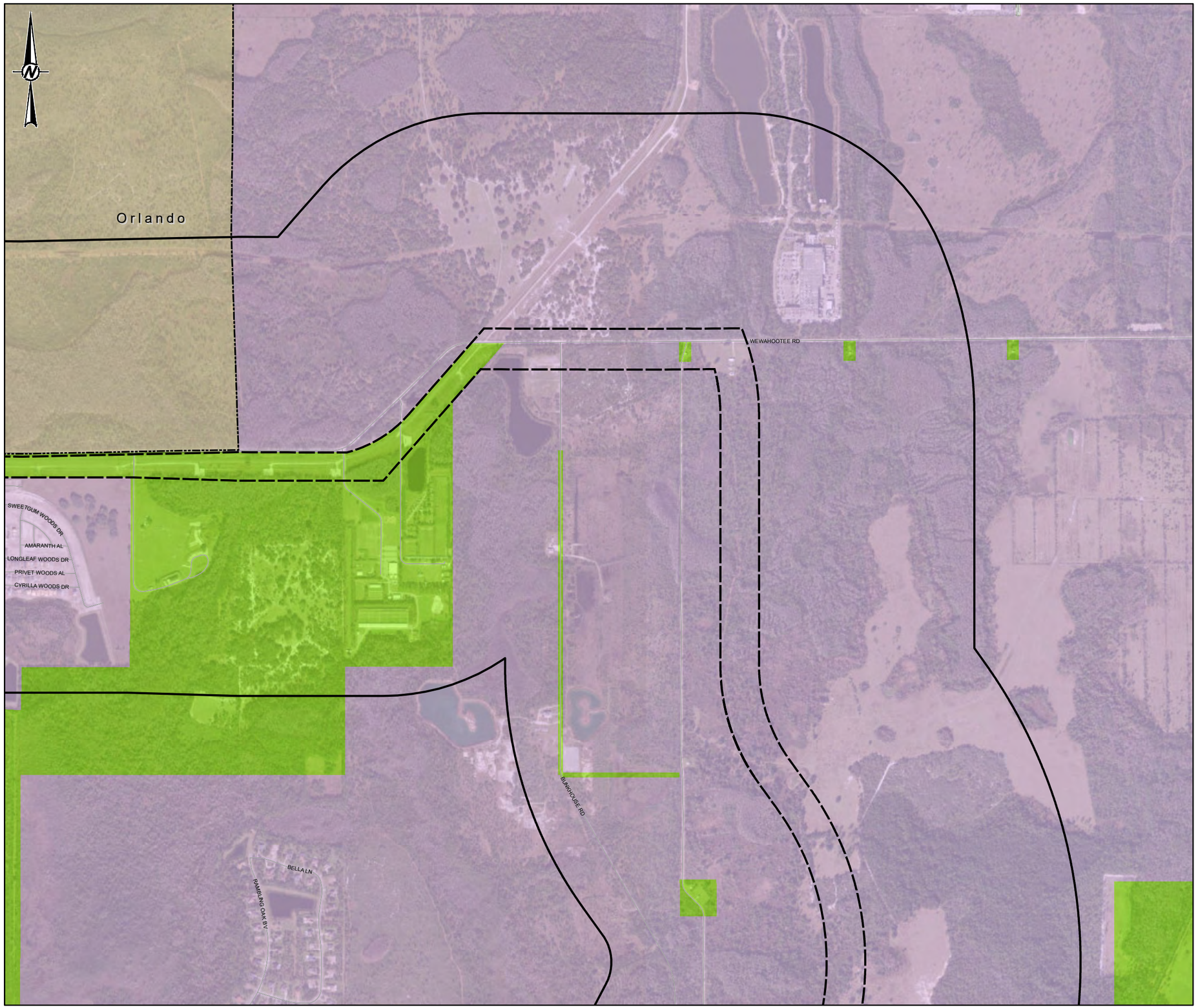

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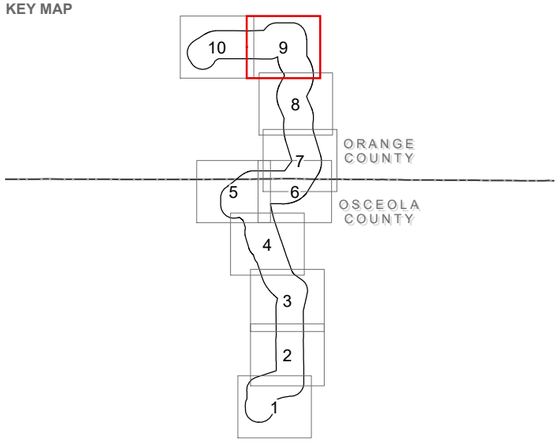

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

ZONING (ORLANDO)

- PLANNED DEVELOPMENT

ZONING (ORANGE COUNTY)

- FARMLAND RURAL
- PLANNED DEVELOPMENT

0 600 1,200 2,400
Feet

REFERENCE(S)

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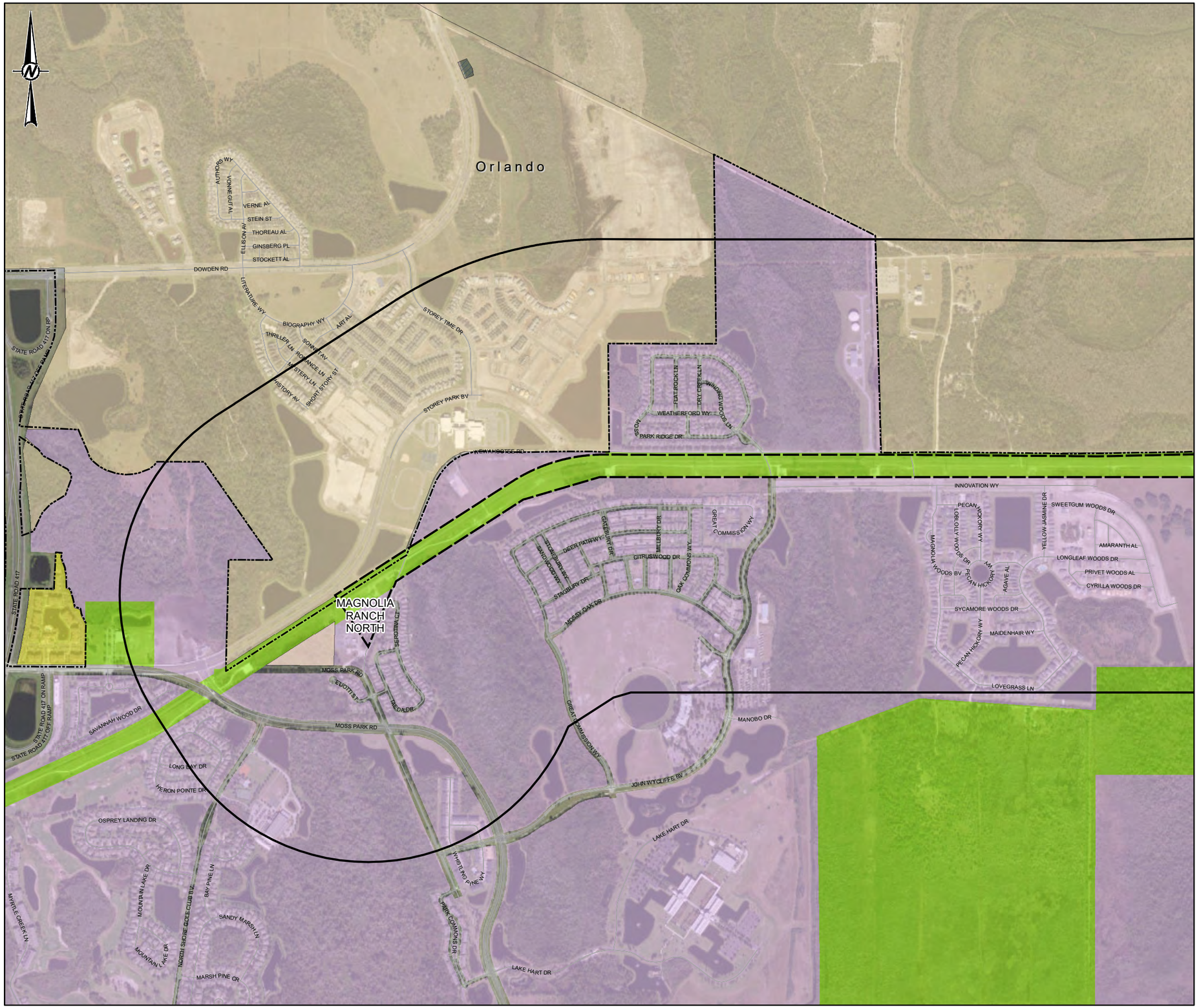

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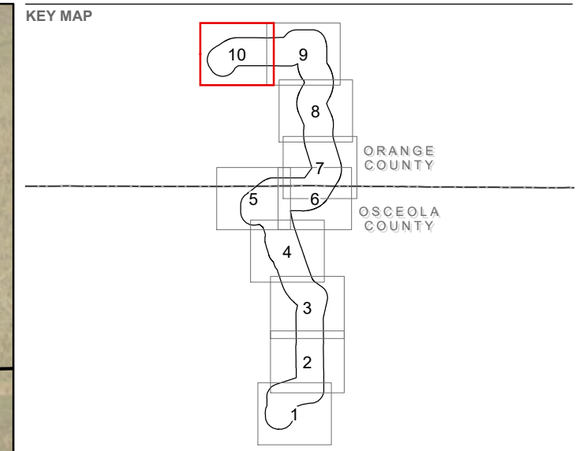

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER

ZONING (ORLANDO)

- NO CITY ZONING
- PLANNED DEVELOPMENT
- RESIDENTIAL DISTRICTS: MEDIUM INTENSITY DEVELOPMENT

ZONING (ORANGE COUNTY)

- FARMLAND RURAL
- PLANNED DEVELOPMENT

0 600 1,200 2,400
Feet

REFERENCE(S)

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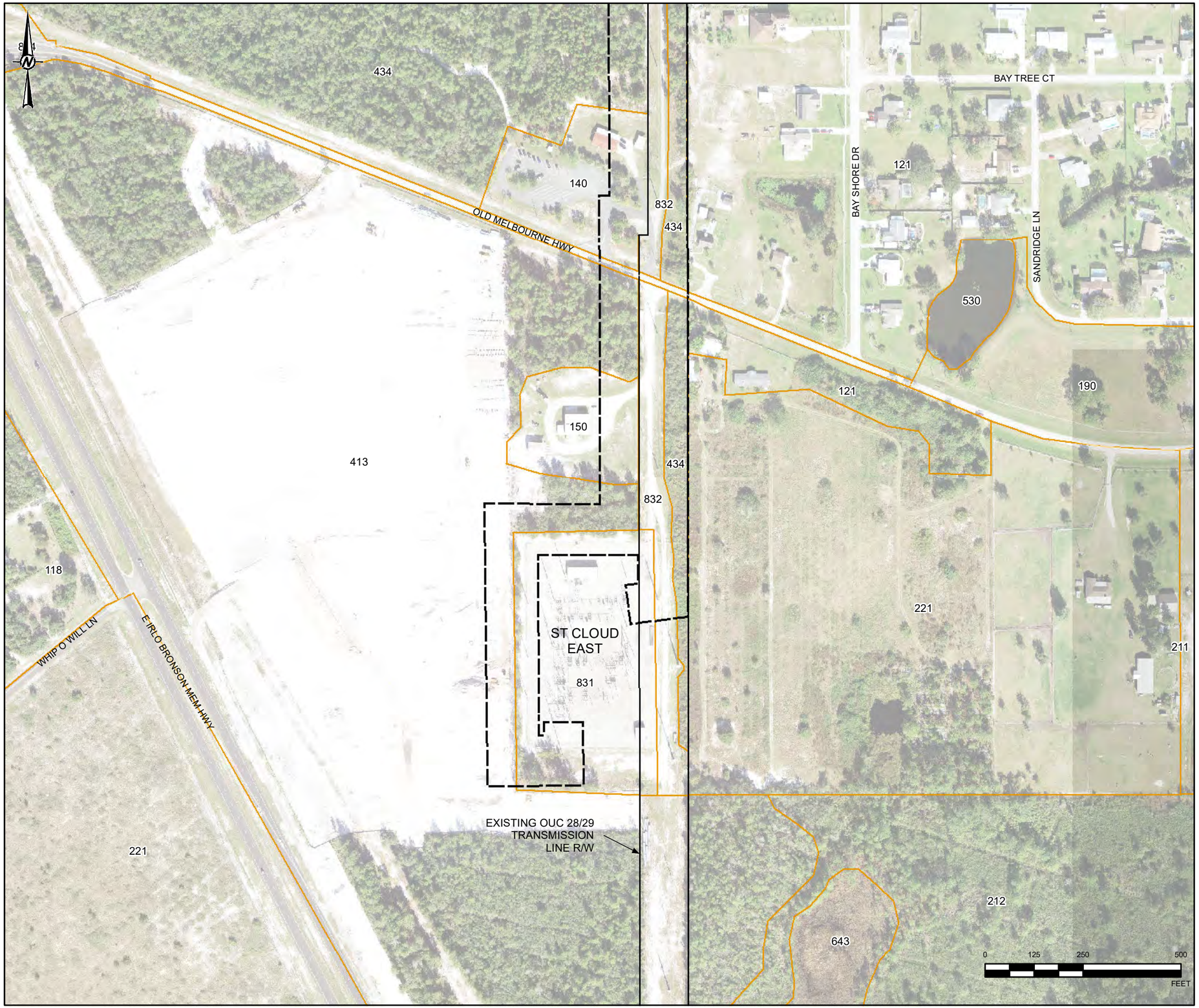

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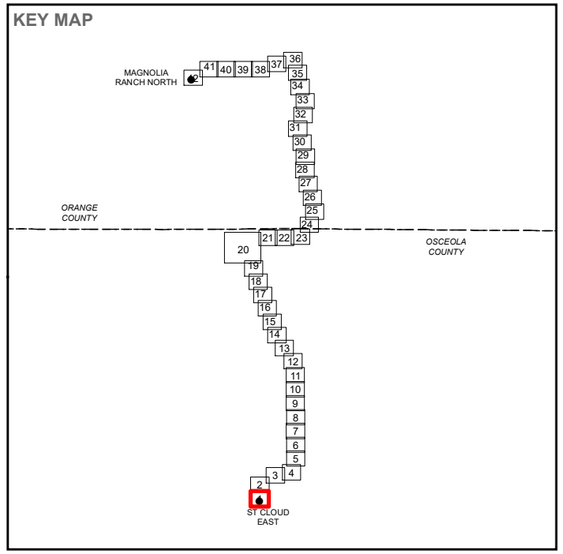


LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 118 - RURAL RESIDENTIAL
  - 121 - FIXED SINGLE FAMILY UNITS
  - 140 - COMMERCIAL AND SERVICES
  - 150 - INDUSTRIAL
  - 190 - OPEN LAND
  - 211 - IMPROVED PASTURES
  - 212 - UNIMPROVED PASTURES
  - 221 - CITRUS GROVES
  - 413 - SAND PINE
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 530 - RESERVOIRS
  - 643 - WET PRAIRIES
  - 814 - ROADS AND HIGHWAYS
  - 831 - ELECTRIC POWER FACILITIES
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

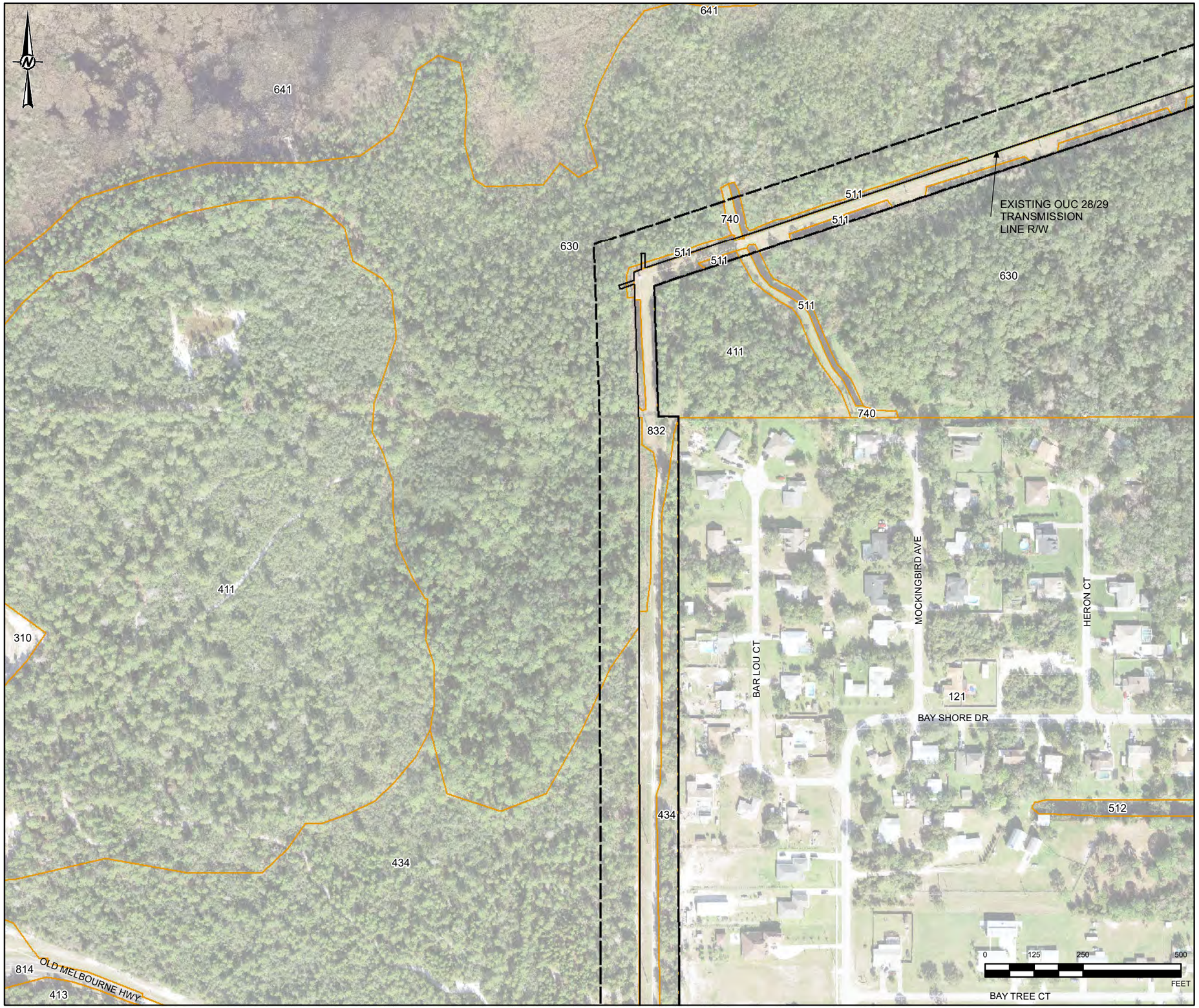
CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

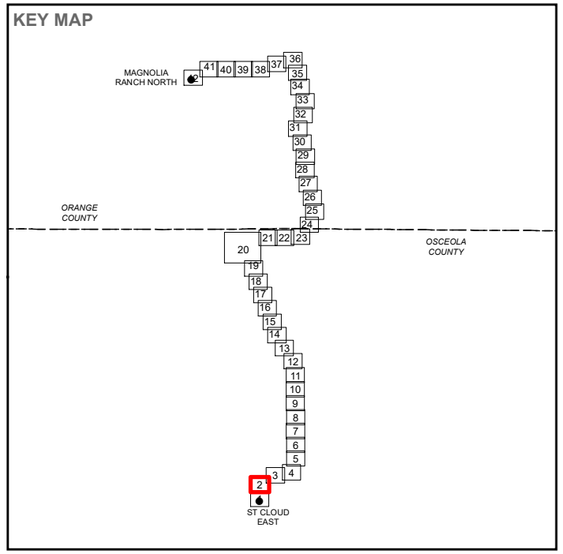
PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd



KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 121 - FIXED SINGLE FAMILY UNITS
  - 310 - HERBACEOUS (DRY PRAIRIE)
  - 411 - PINE FLATWOODS
  - 413 - SAND PINE
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 511 - DITCHES
  - 512 - CHANNELIZED WATERWAY
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 740 - DISTURBED LAND
  - 814 - ROADS AND HIGHWAYS
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

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ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
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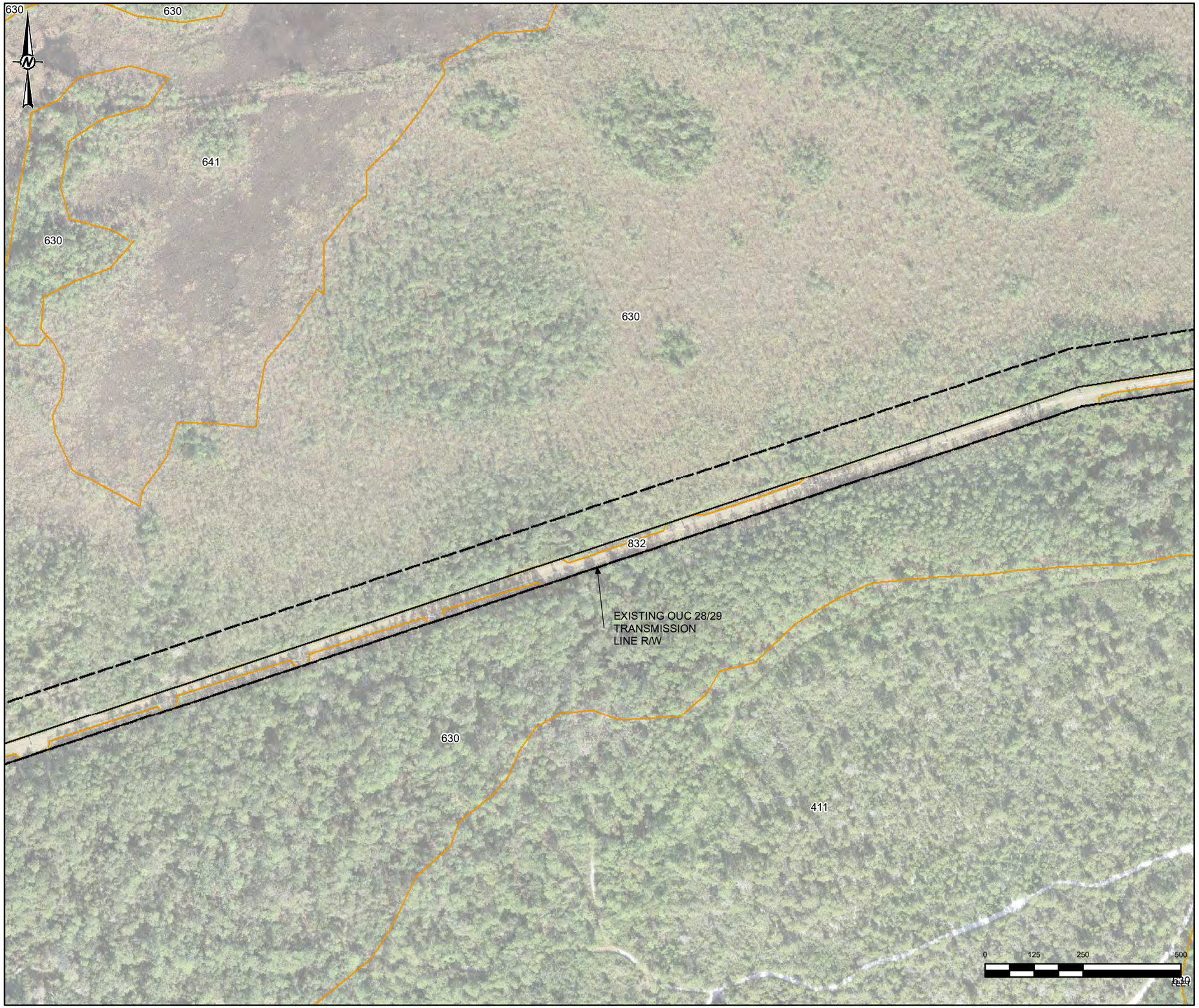
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SiCloud_MagnoliaRanch_Transmission\Line\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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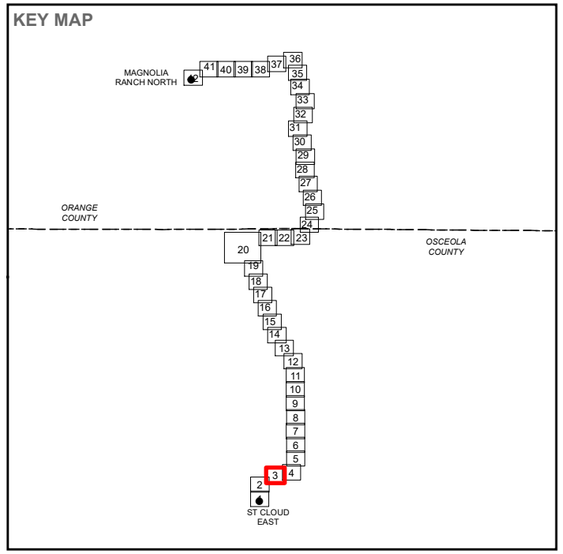

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 411 - PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
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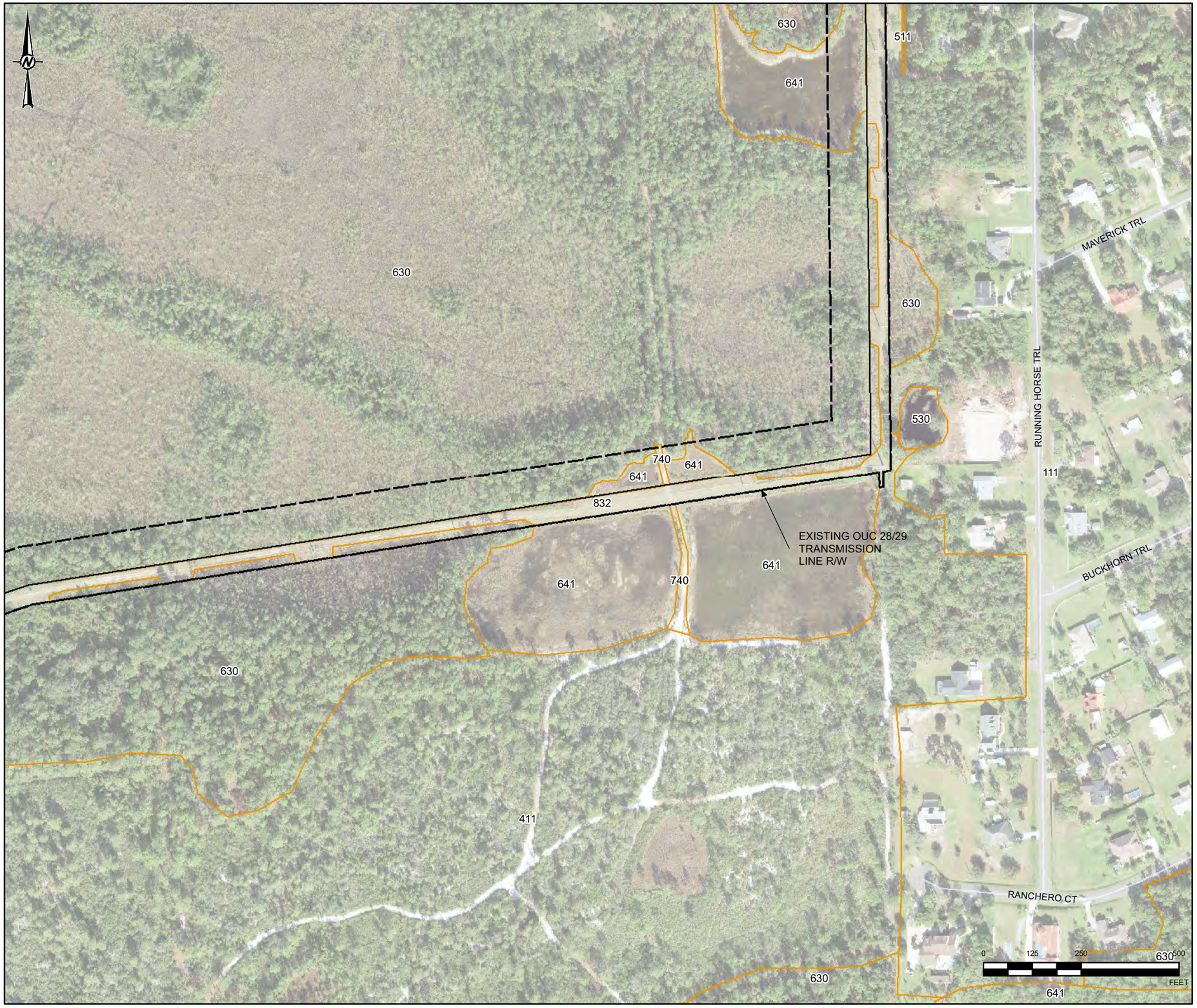
PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SICloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAVC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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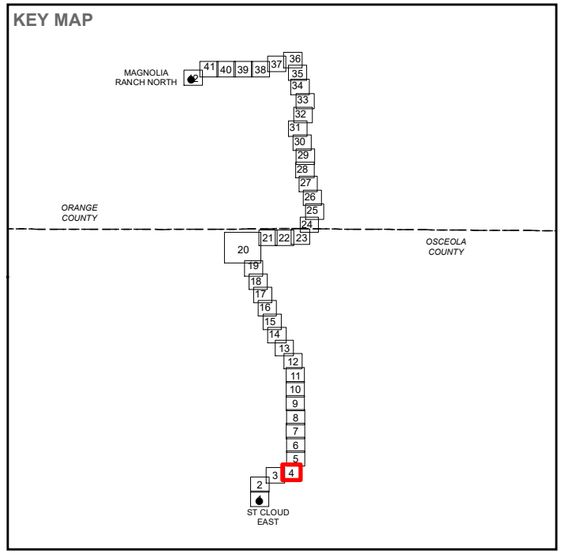

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 111 - FIXED SINGLE FAMILY UNITS
  - 411 - PINE FLATWOODS
  - 511 - DITCHES
  - 530 - RESERVOIRS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 740 - DISTURBED LAND
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TL5\AC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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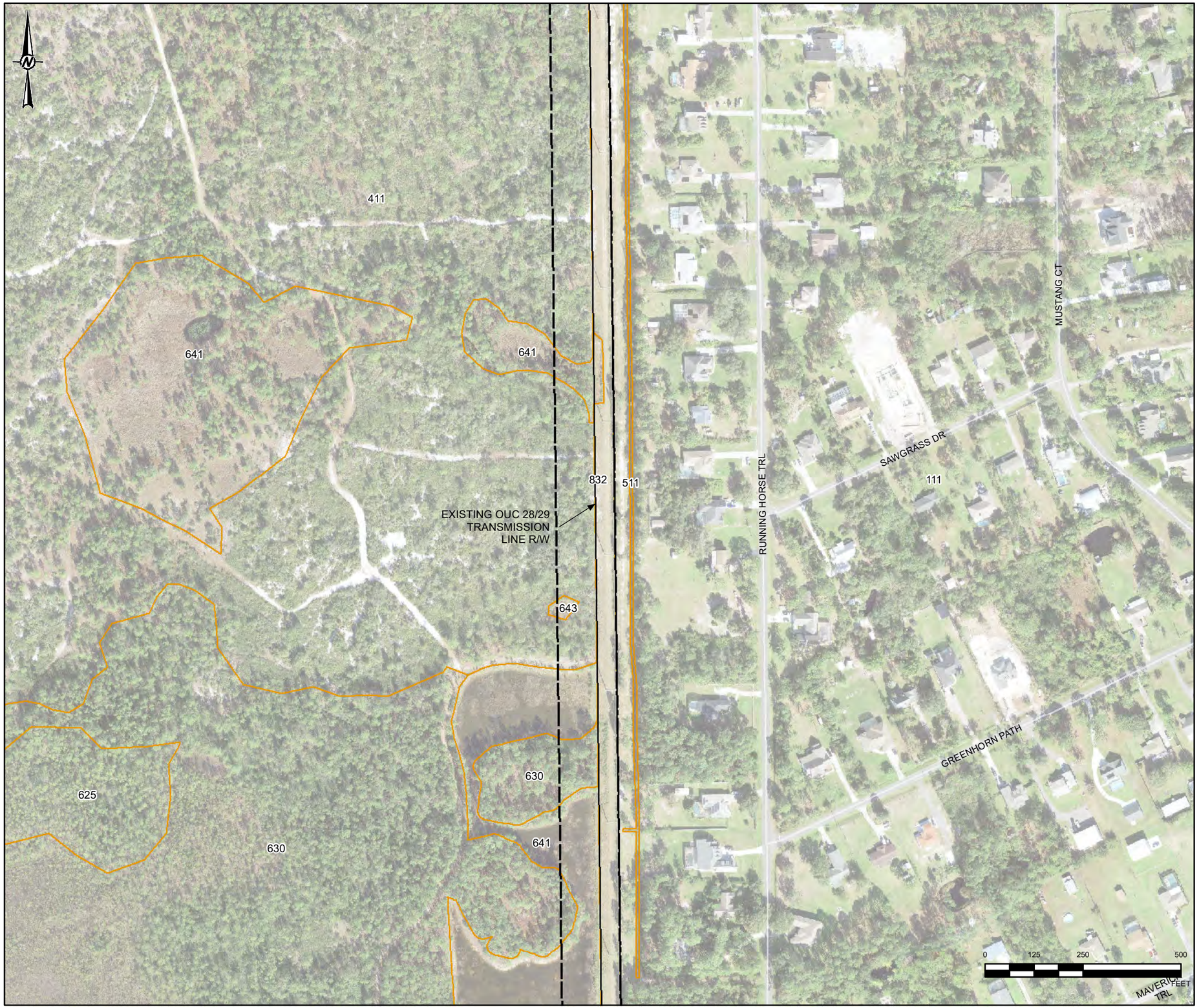

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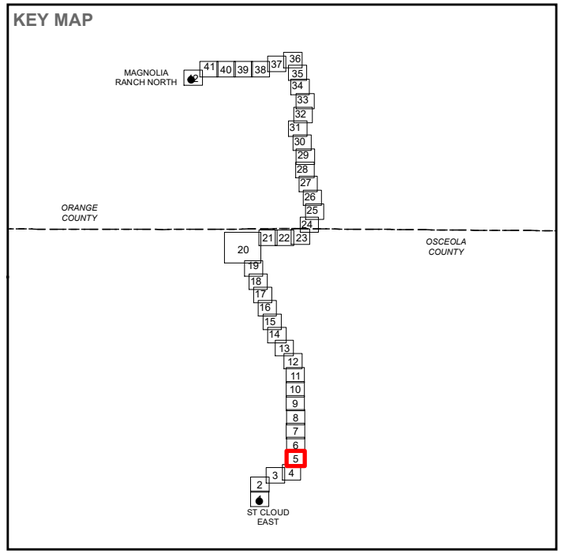

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 111 - FIXED SINGLE FAMILY UNITS
  - 411 - PINE FLATWOODS
  - 511 - DITCHES
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	**2-7**

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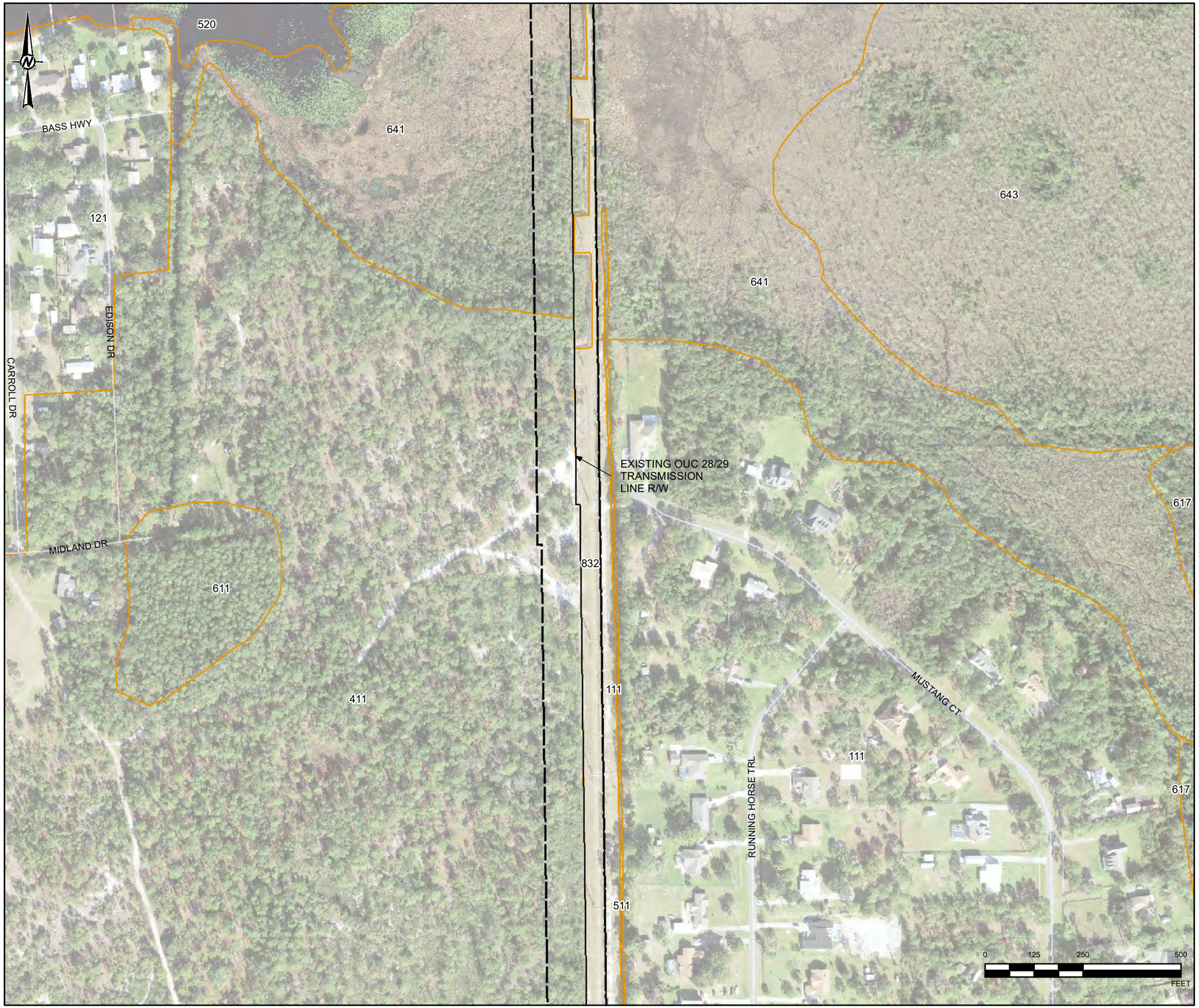

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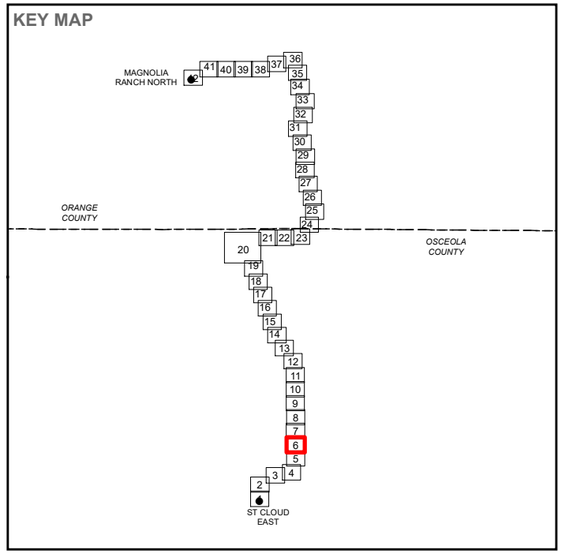

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 111 - FIXED SINGLE FAMILY UNITS
  - 121 - FIXED SINGLE FAMILY UNITS
  - 411 - PINE FLATWOODS
  - 511 - DITCHES
  - 520 - LAKES
  - 611 - BAY SWAMPS
  - 617 - MIXED WETLAND HARDWOODS
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
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PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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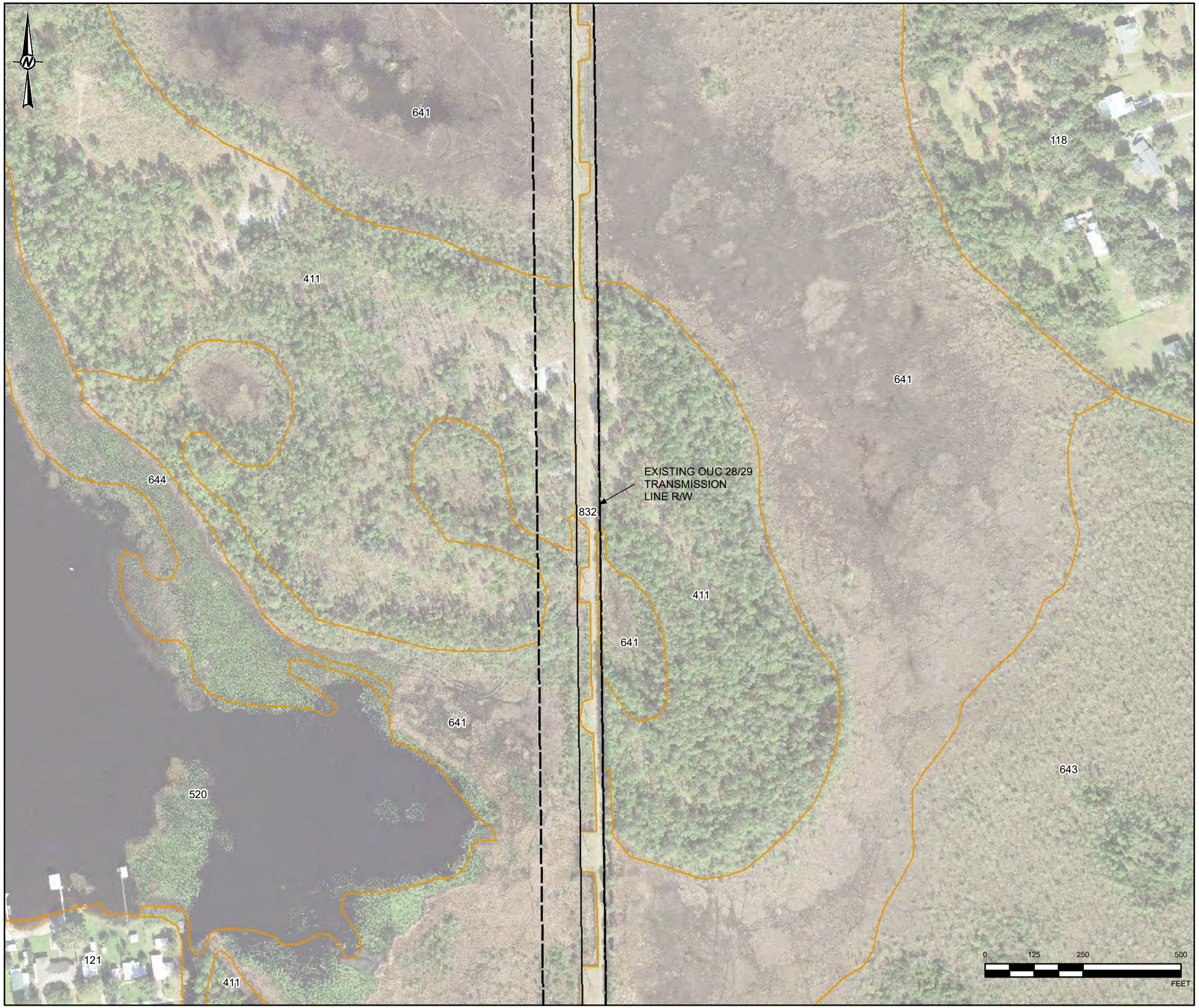

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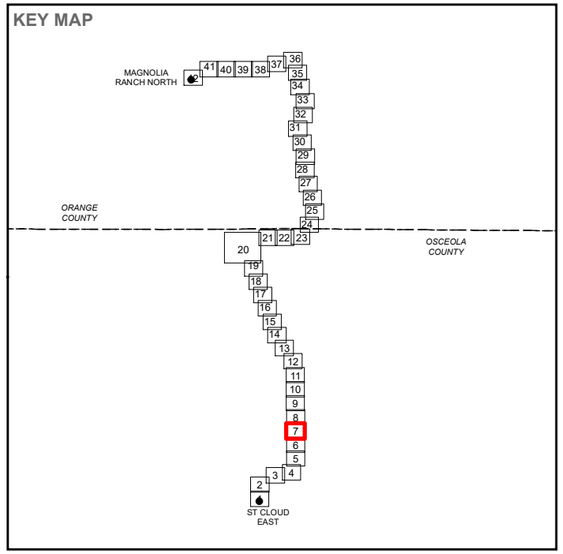


LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 118 - RURAL RESIDENTIAL
  - 121 - FIXED SINGLE FAMILY UNITS
  - 411 - PINE FLATWOODS
  - 520 - LAKES
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 644 - EMERGENT AQUATIC VEGETATION
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

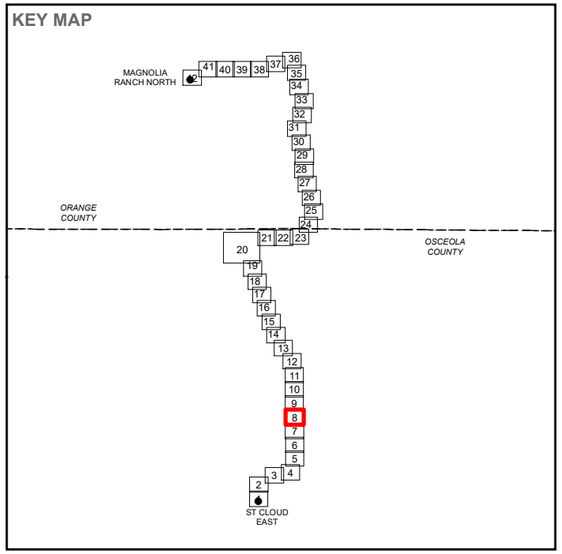
YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	**2-7**

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 118 - RURAL RESIDENTIAL
  - 320 - SHRUB AND BRUSHLAND
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 512 - CHANNELIZED WATERWAY
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 641 - FRESHWATER MARSHES
  - 743 - SPOIL AREAS
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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ORLANDO UTILITIES COMMISSION

PROJECT
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CONSULTANT
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SlCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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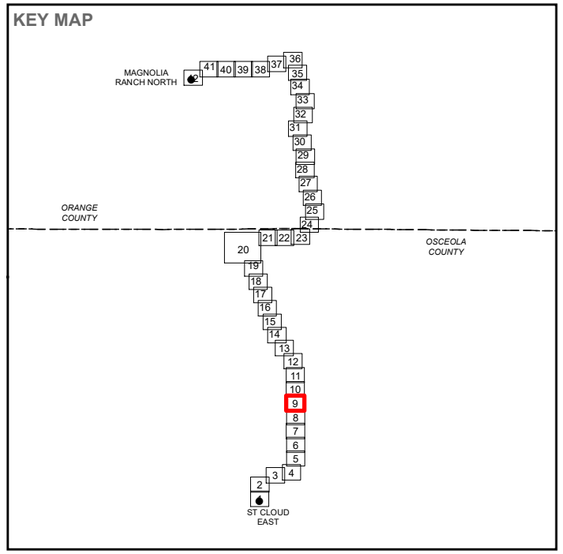
KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 111 - FIXED SINGLE FAMILY UNITS
  - 213 - WOODLAND PASTURES
  - 320 - SHRUB AND BRUSHLAND
  - 330 - MIXED RANGELAND
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 512 - CHANNELIZED WATERWAY
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

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PROJECTION: TRANSVERSE MERCATOR
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ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	**2-7**

PATH: G:\Projects\OUC\SJCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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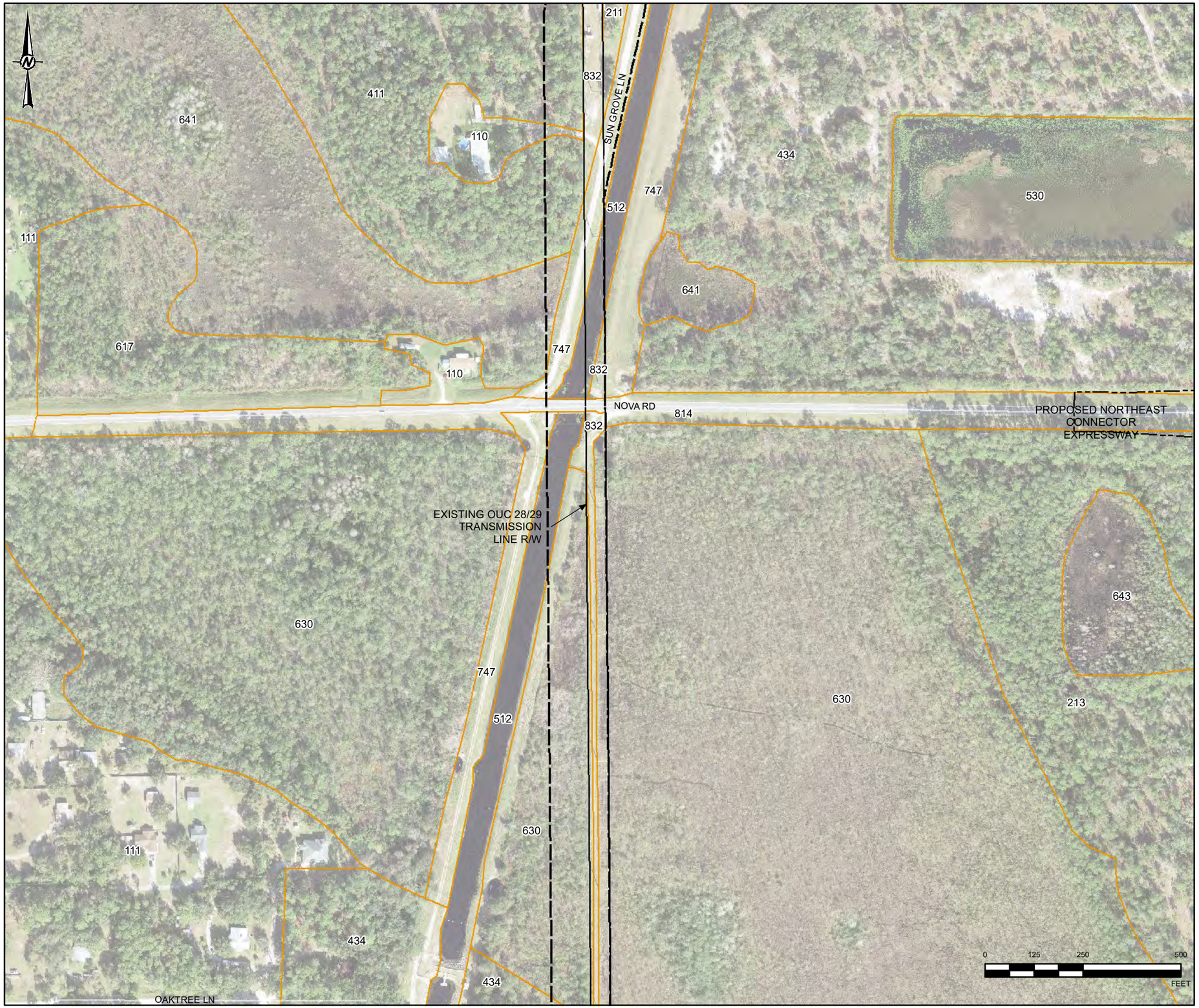

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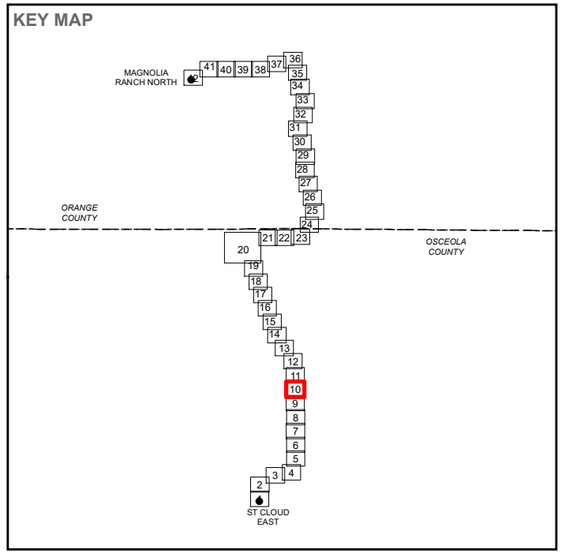

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- LAND USE / LAND COVER
  - 110 - RESIDENTIAL, LOW DENSITY (LESS THAN TWO DWELLING UNITS PER ACRE)
  - 111 - FIXED SINGLE FAMILY UNITS
  - 211 - IMPROVED PASTURES
  - 213 - WOODLAND PASTURES
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 512 - CHANNELIZED WATERWAY
  - 530 - RESERVOIRS
  - 617 - MIXED WETLAND HARDWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 747 - DIKES AND LEVEES
  - 814 - ROADS AND HIGHWAYS
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

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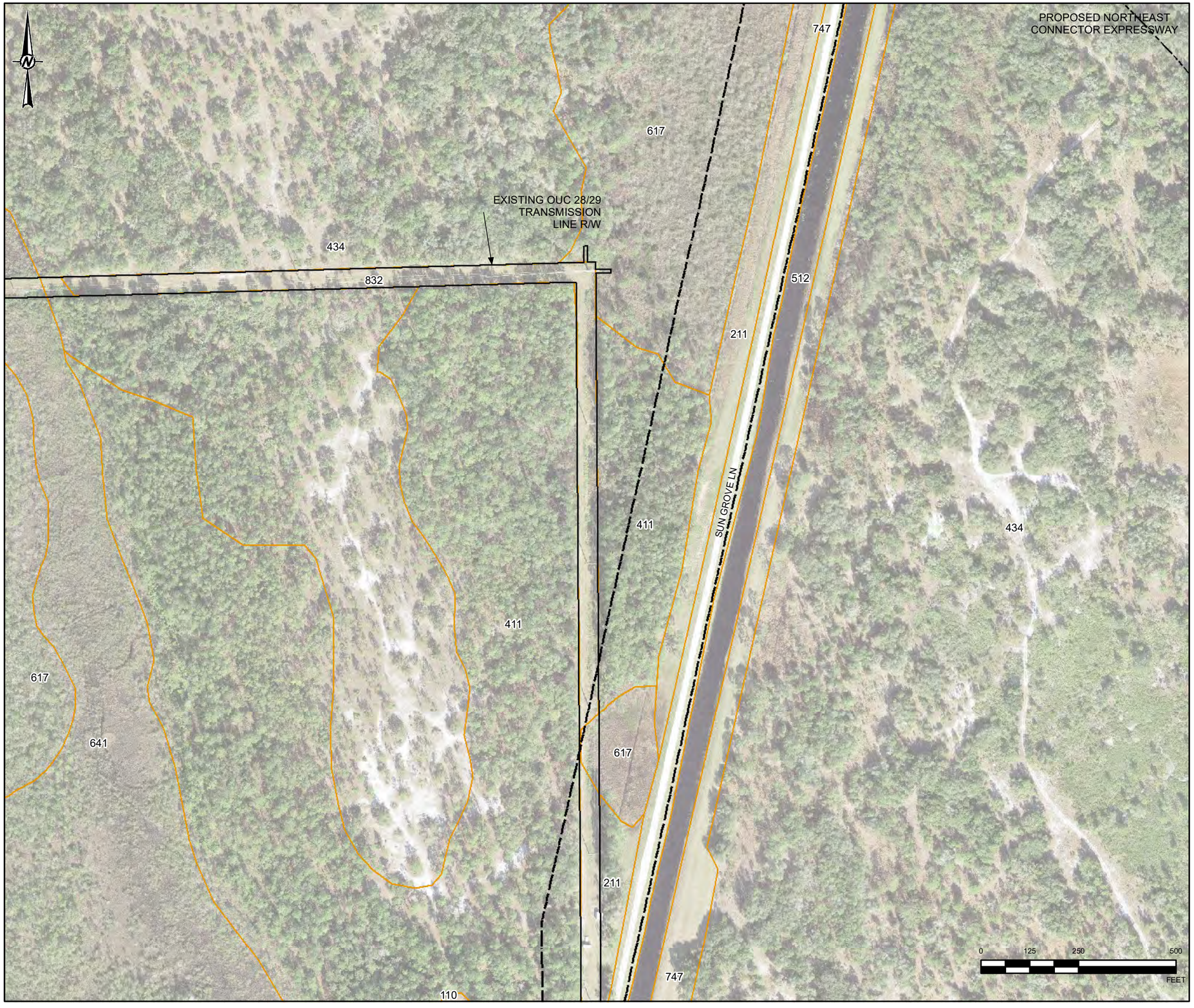
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SC\cloud_Magnolia\Ranch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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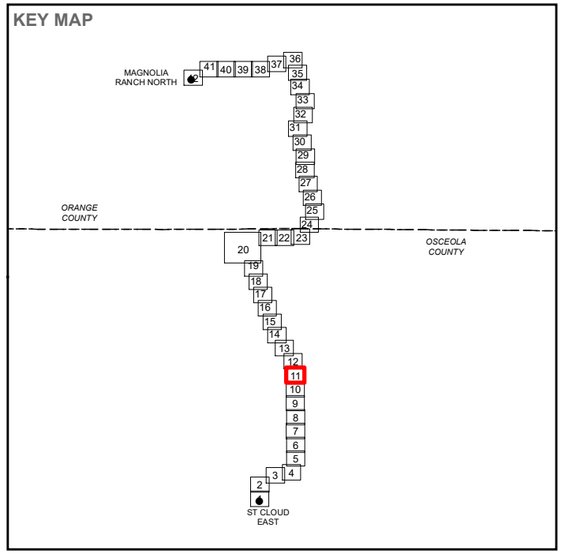

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- LAND USE / LAND COVER
  - 110 - RESIDENTIAL, LOW DENSITY (LESS THAN TWO DWELLING UNITS PER ACRE)
  - 211 - IMPROVED PASTURES
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 512 - CHANNELIZED WATERWAY
  - 617 - MIXED WETLAND HARDWOODS
  - 641 - FRESHWATER MARSHES
  - 747 - DIKES AND LEVEES
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLS\AC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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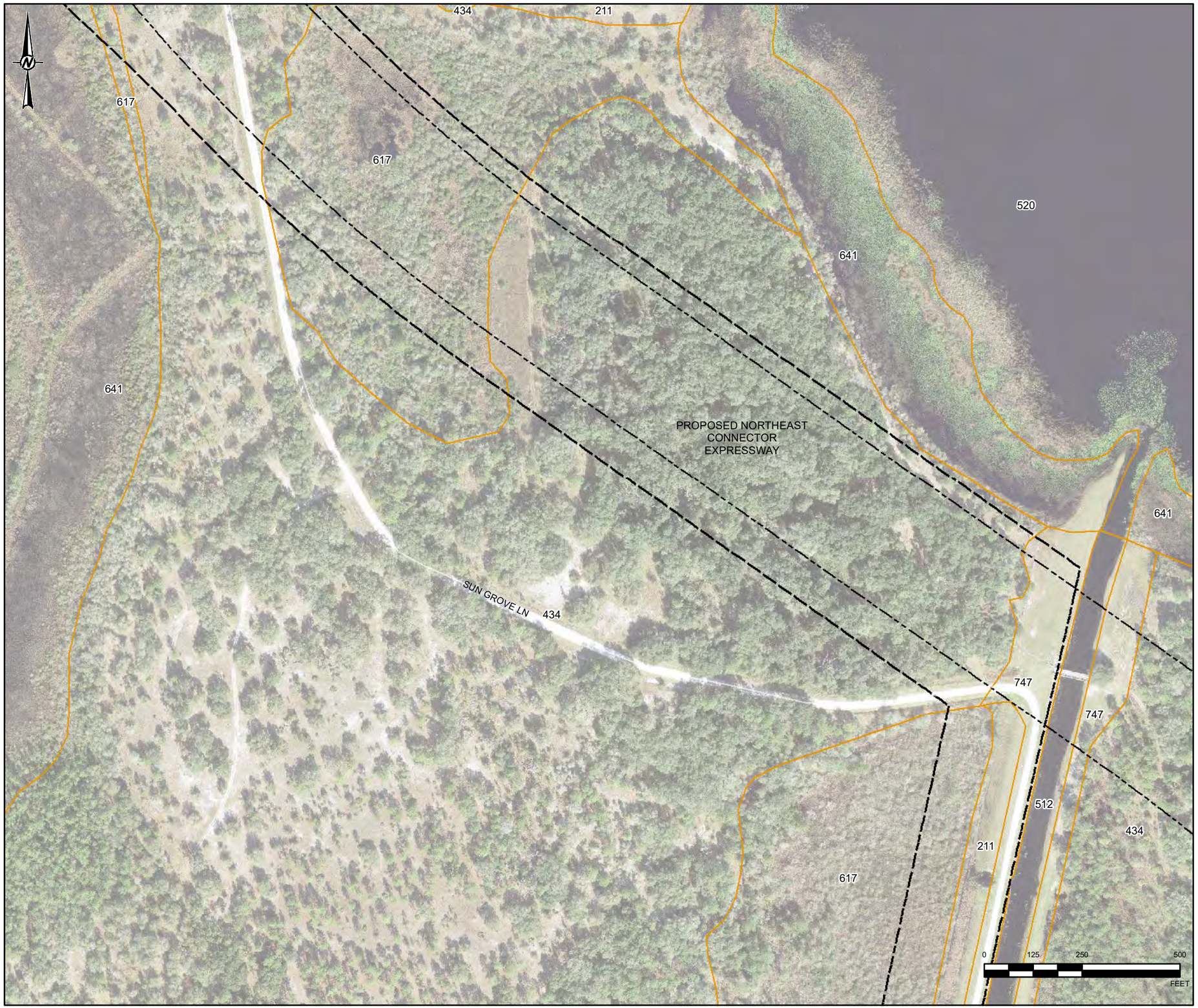

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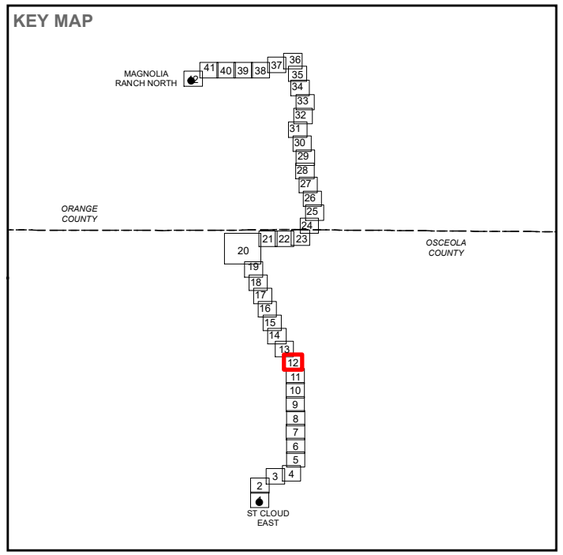

LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 512 - CHANNELIZED WATERWAY
  - 520 - LAKES
  - 617 - MIXED WETLAND HARDWOODS
  - 641 - FRESHWATER MARSHES
  - 747 - DIKES AND LEVEES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

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LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	**2-7**

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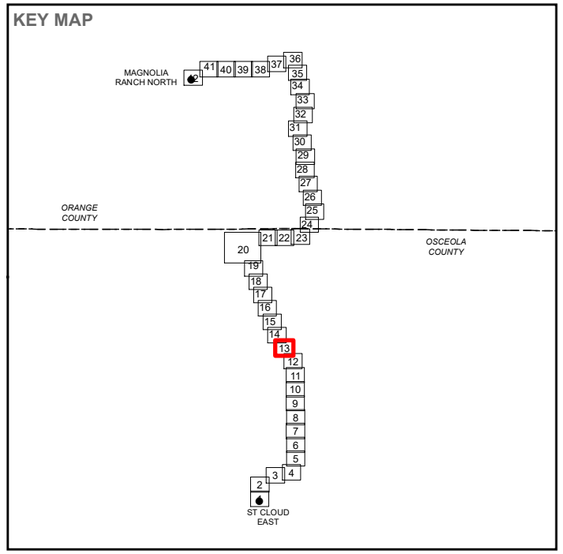
PATH: G:\Projects\OUC\SCloud_MagneliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAVC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 213 - WOODLAND PASTURES
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 617 - MIXED WETLAND HARDWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_Transmission\Line(69)_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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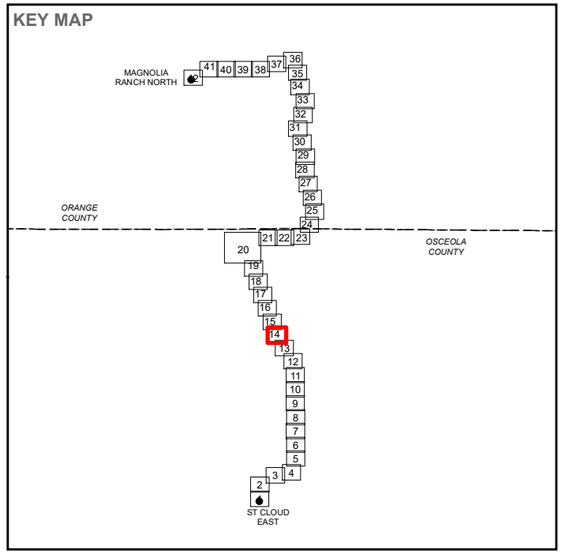
KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- LAND USE / LAND COVER
  - 212 - UNIMPROVED PASTURES
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 523 - LAKES LARGER THAN 10 ACRES (4 HECTARES) BUT LESS THAN 100 ACRES
  - 617 - MIXED WETLAND HARDWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
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TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
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PREPARED	NRL
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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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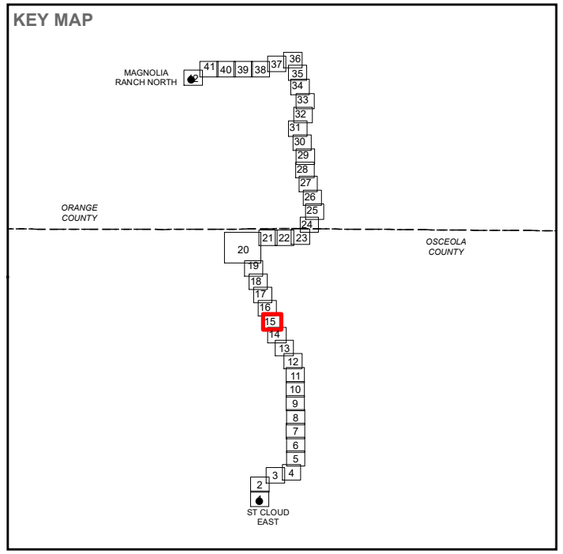
KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- LAND USE / LAND COVER
  - 212 - UNIMPROVED PASTURES
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 523 - LAKES LARGER THAN 10 ACRES (4 HECTARES) BUT LESS THAN 100 ACRES
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
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TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

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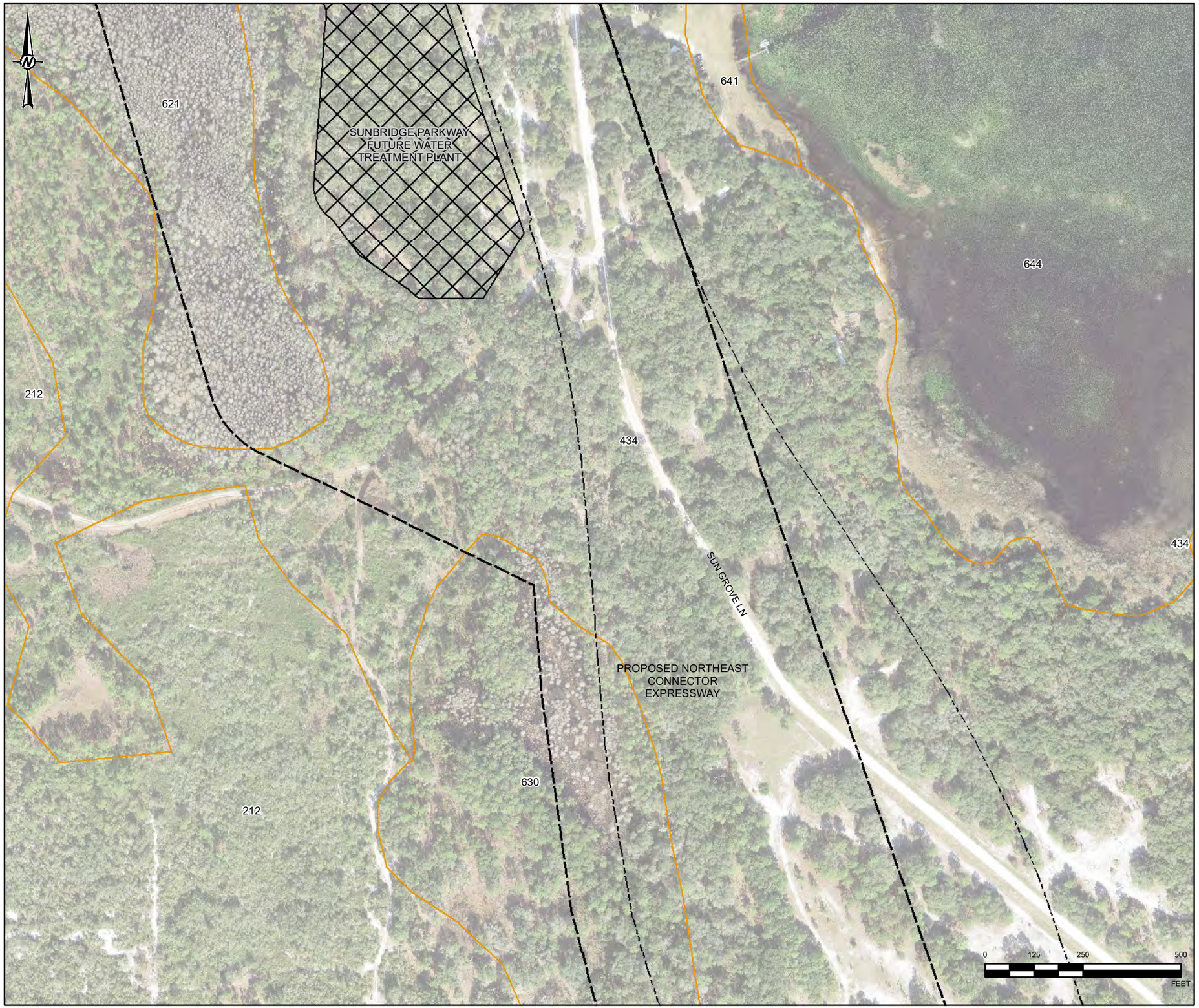

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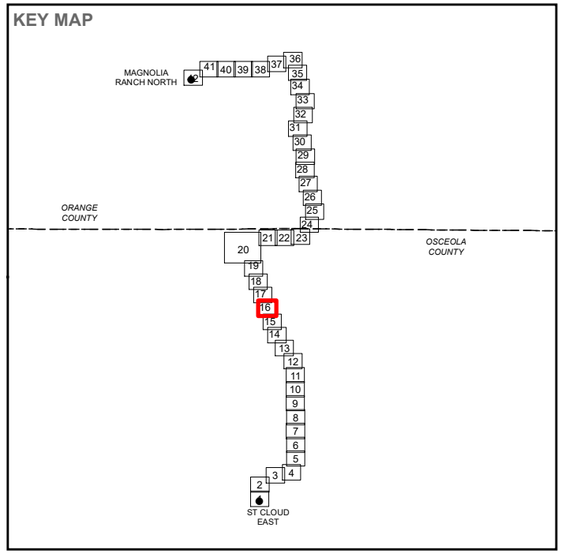

LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- SUNBRIDGE PARKWAY FUTURE WATER TREATMENT PLANT
- LAND USE / LAND COVER
  - 212 - UNIMPROVED PASTURES
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 644 - EMERGENT AQUATIC VEGETATION

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SiCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\2_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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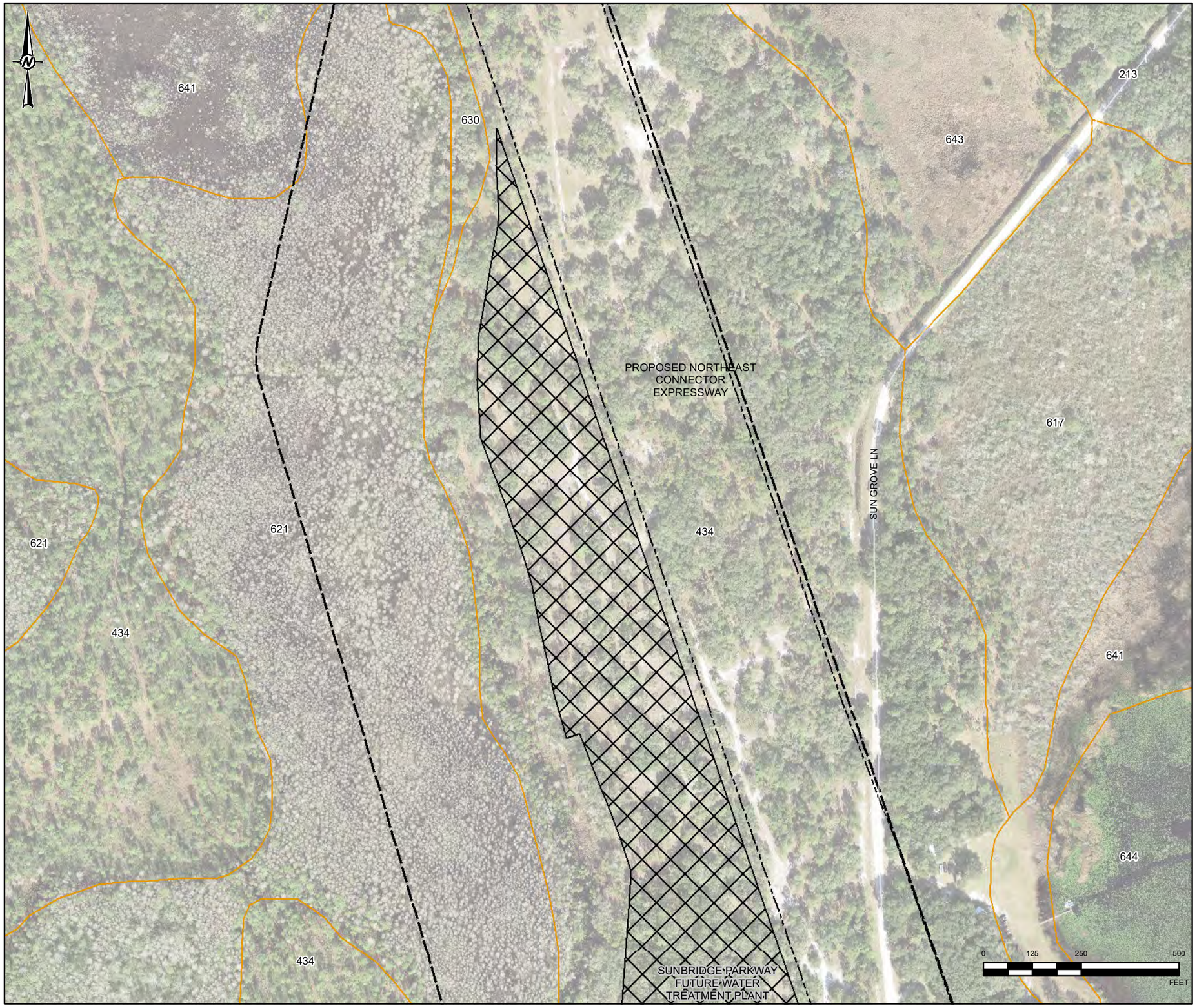

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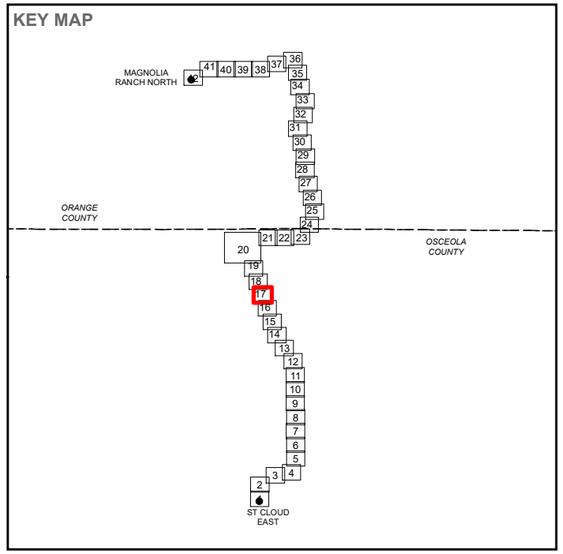

LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- SUNBRIDGE PARKWAY FUTURE WATER TREATMENT PLANT
- LAND USE / LAND COVER
  - 213 - WOODLAND PASTURES
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 644 - EMERGENT AQUATIC VEGETATION

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SCCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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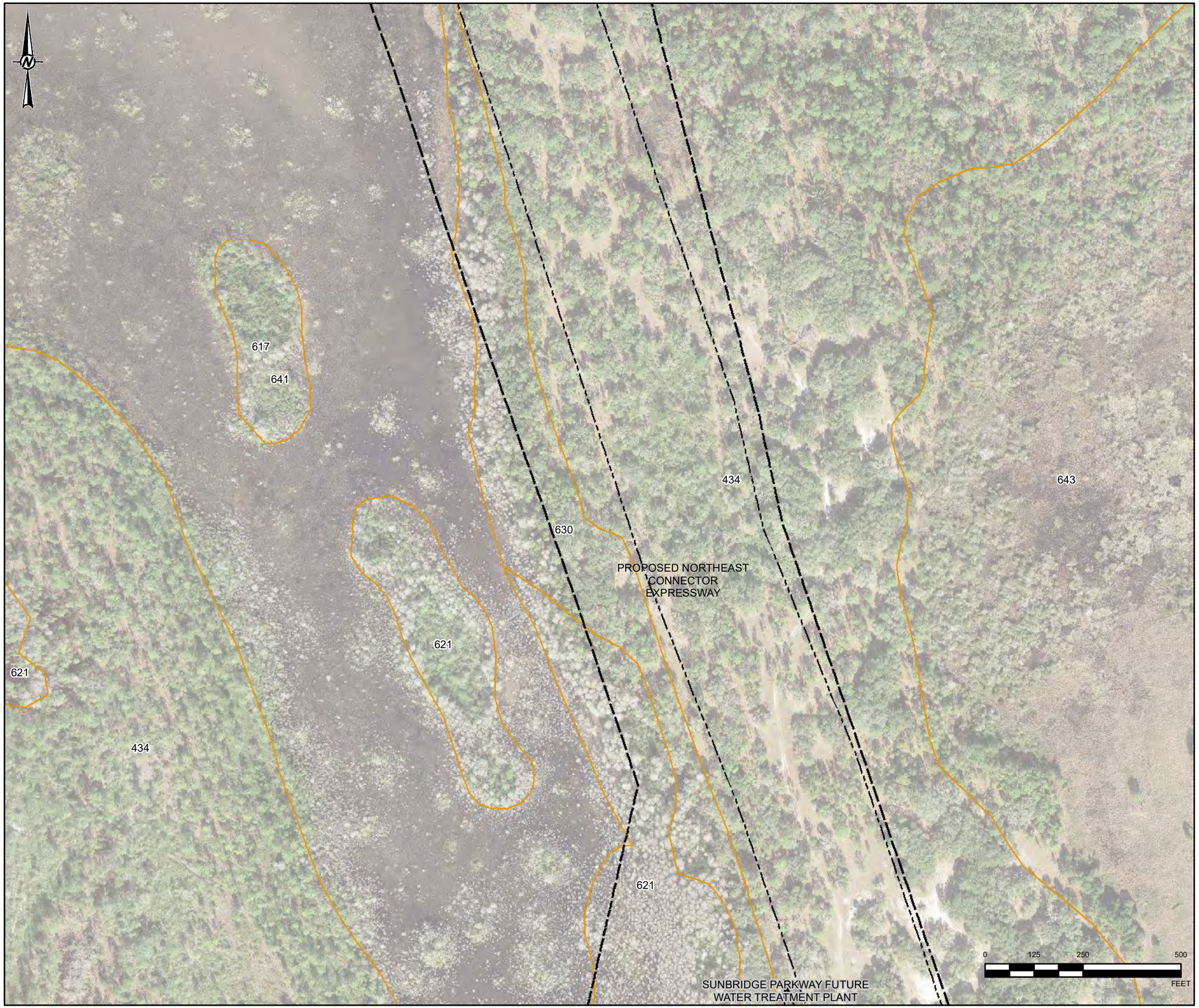

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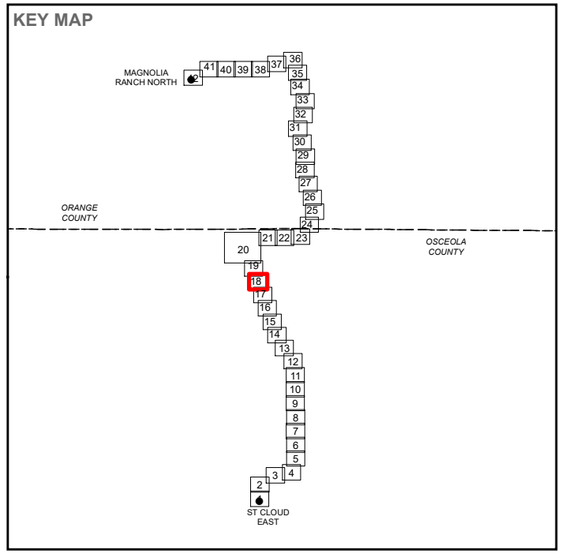

LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- SUNBRIDGE PARKWAY FUTURE WATER TREATMENT PLANT
- LAND USE / LAND COVER
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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PROJECT NO.	CONTROL	REV.	FIGURE
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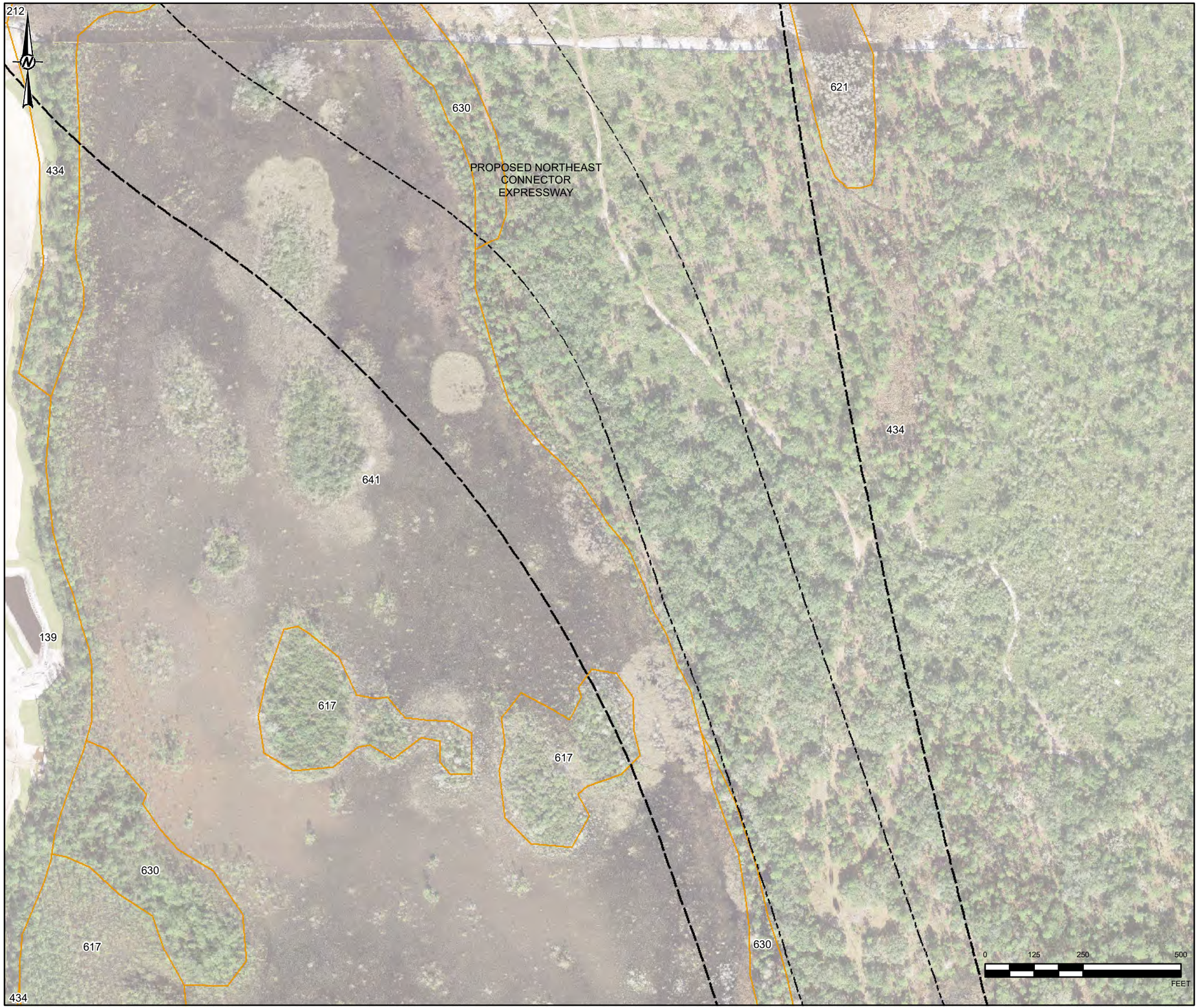

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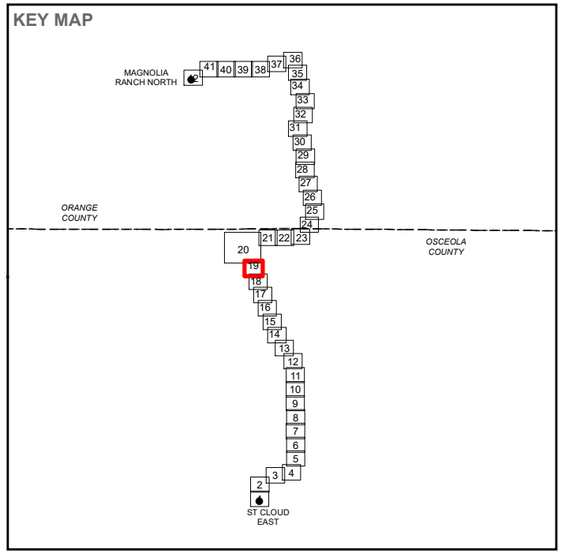

LEGEND

- PROPOSED CORRIDOR
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- LAND USE / LAND COVER
  - 139 - HIGH DENSITY UNDER CONSTRUCTION
  - 212 - UNIMPROVED PASTURES
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

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ORLANDO UTILITIES COMMISSION

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ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TL\SAC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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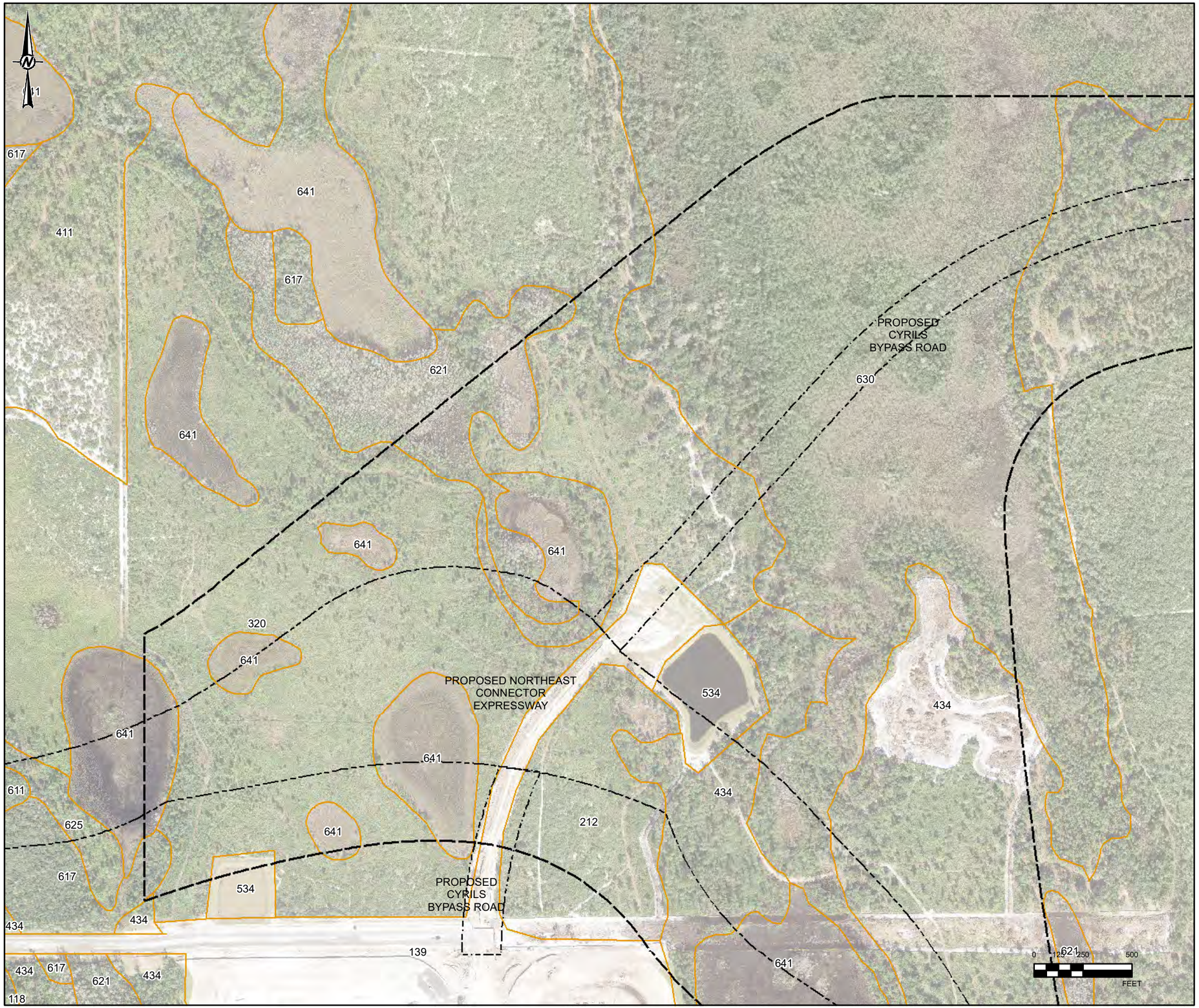

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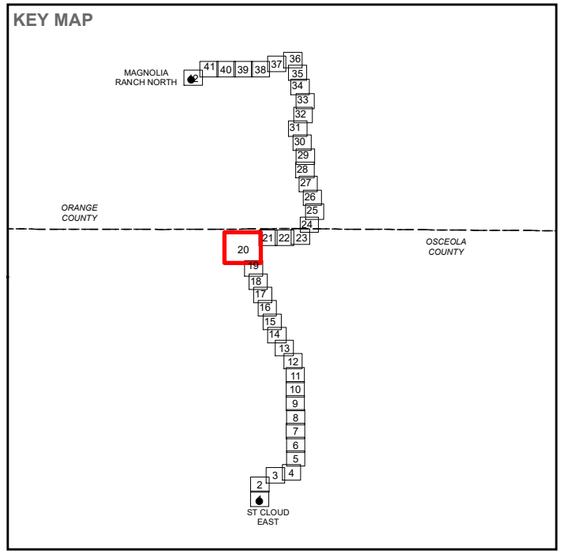

LEGEND

- PROPOSED CORRIDOR
- PROPOSED CYRILS BYPASS ROAD
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- LAND USE / LAND COVER
  - 118 - RURAL RESIDENTIAL
  - 139 - HIGH DENSITY UNDER CONSTRUCTION
  - 212 - UNIMPROVED PASTURES
  - 320 - SHRUB AND BRUSHLAND
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 534 - RESERVOIRS LESS THAN 10 ACRES (4 HECTARES) WHICH ARE DOMINANT FEATURES
  - 611 - BAY SWAMPS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

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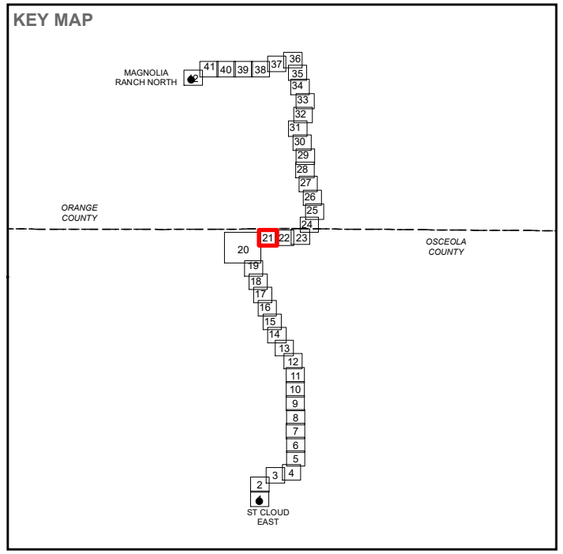
KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED CYRILS BYPASS ROAD
- LAND USE / LAND COVER
  - 212 - UNIMPROVED PASTURES
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 510 - STREAMS AND WATERWAYS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 740 - DISTURBED LAND

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

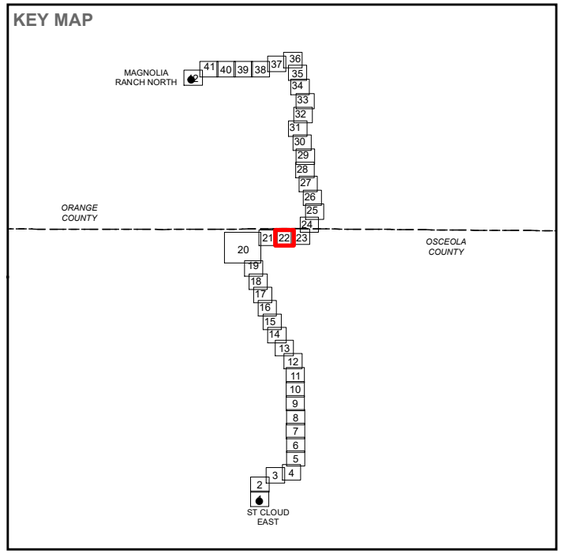
YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAVC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED CYRILS BYPASS ROAD
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 212 - UNIMPROVED PASTURES
  - 411 - PINE FLATWOODS
  - 511 - DITCHES
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

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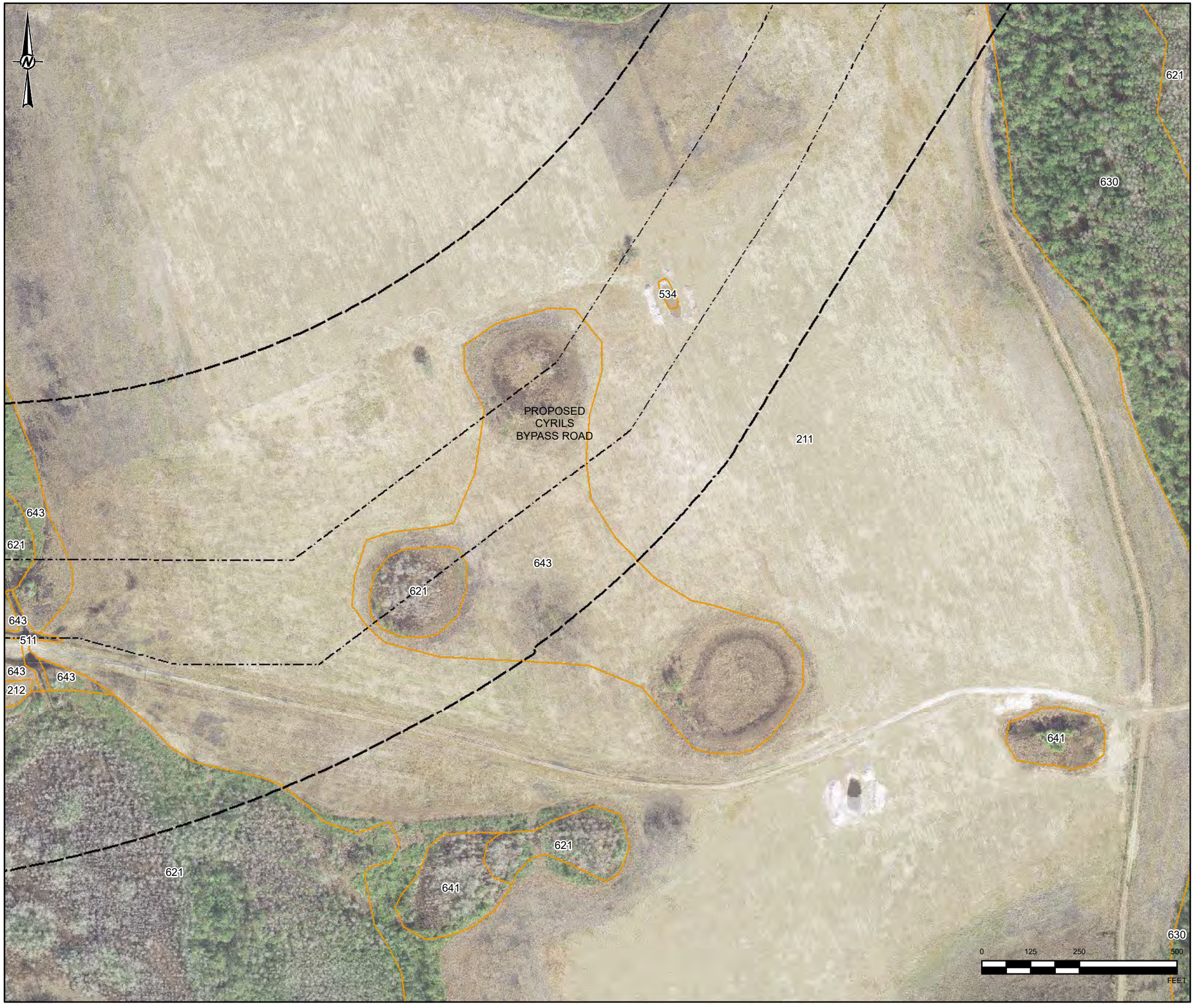

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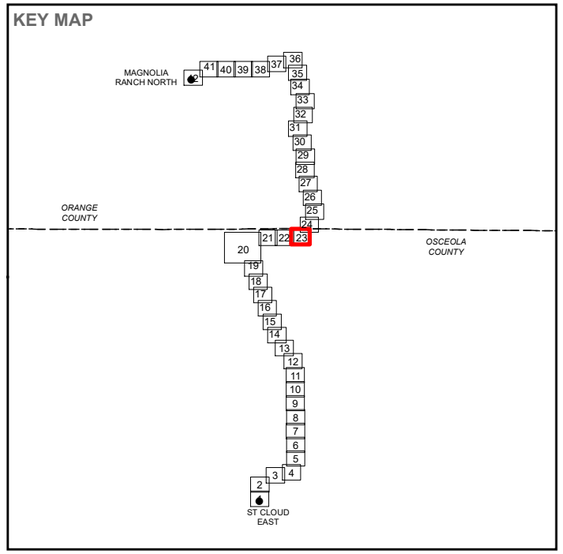

LEGEND

- PROPOSED CORRIDOR
- PROPOSED CYRILS BYPASS ROAD
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 212 - UNIMPROVED PASTURES
  - 511 - DITCHES
  - 534 - RESERVOIRS LESS THAN 10 ACRES (4 HECTARES) WHICH ARE DOMINANT FEATURES
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
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PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\09_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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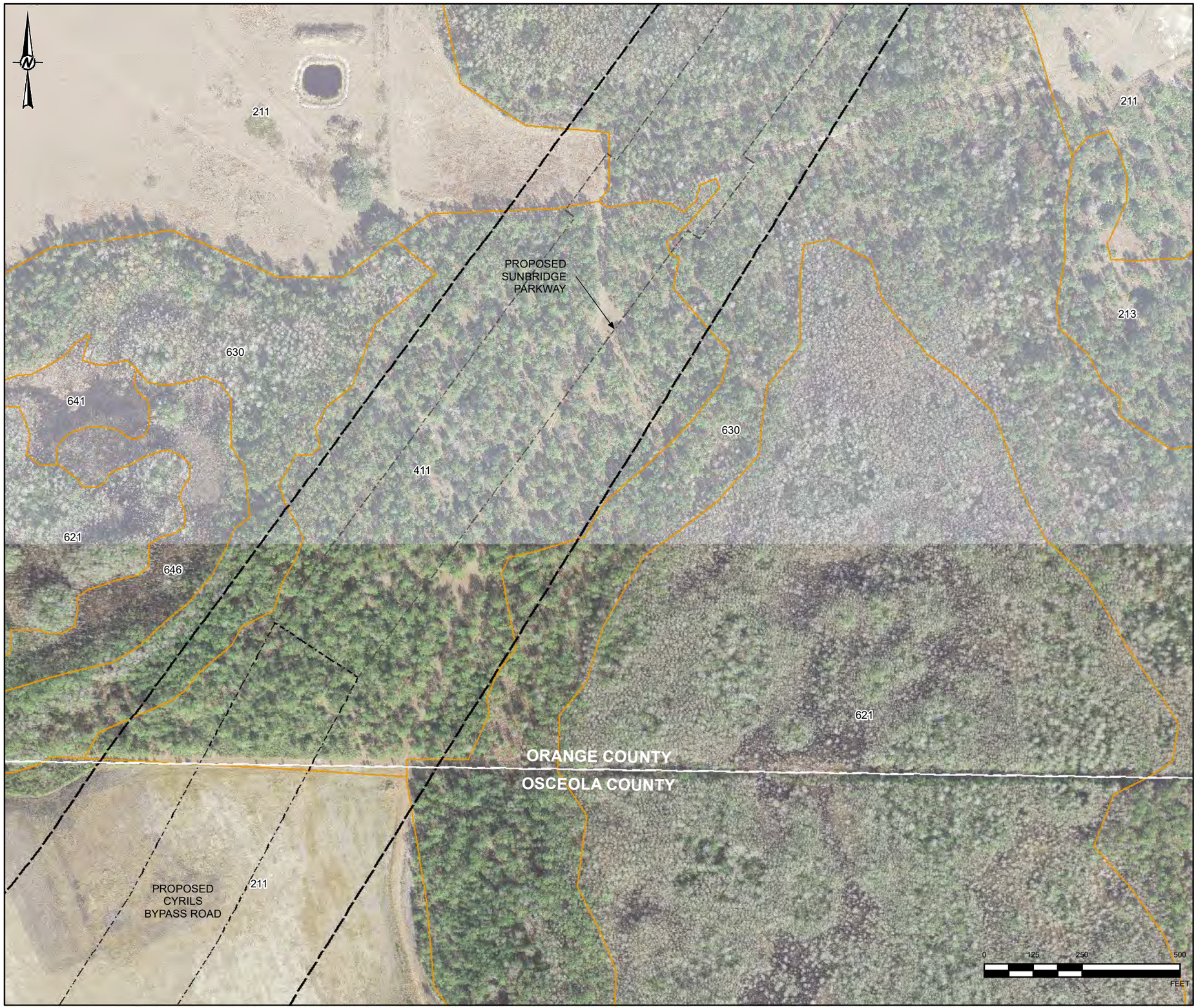

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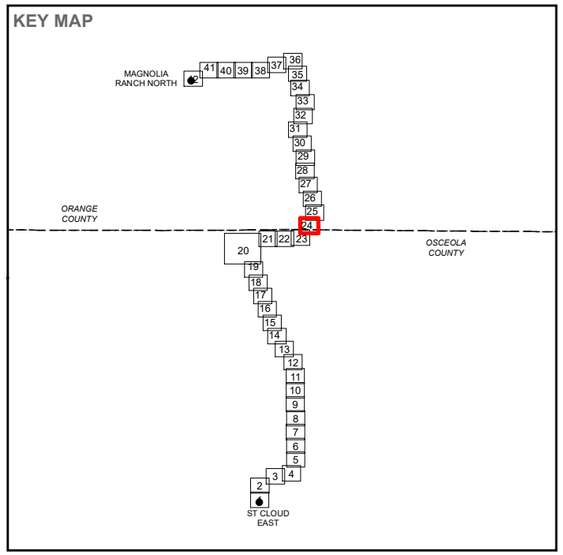

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED CYRILS BYPASS ROAD
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 213 - WOODLAND PASTURES
  - 411 - PINE FLATWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 646 - TREELESS HYDRIC SAVANNA

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
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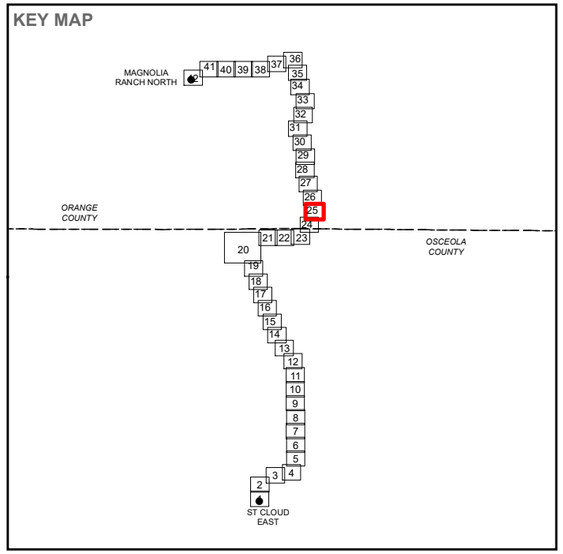

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 213 - WOODLAND PASTURES
  - 221 - CITRUS GROVES
  - 421 - XERIC OAK
  - 534 - RESERVOIRS LESS THAN 10 ACRES (4 HECTARES) WHICH ARE DOMINANT FEATURES
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 643 - WET PRAIRIES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

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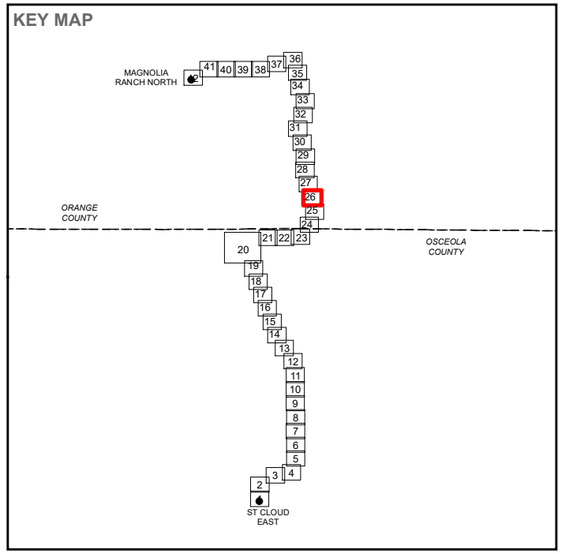
KEY MAP



LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 221 - CITRUS GROVES
  - 224 - ABANDONED GROVES
  - 421 - XERIC OAK
  - 511 - DITCHES
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

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ORLANDO UTILITIES COMMISSION

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OUC The Reliable One

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	**2-7**

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_Transmission\Line\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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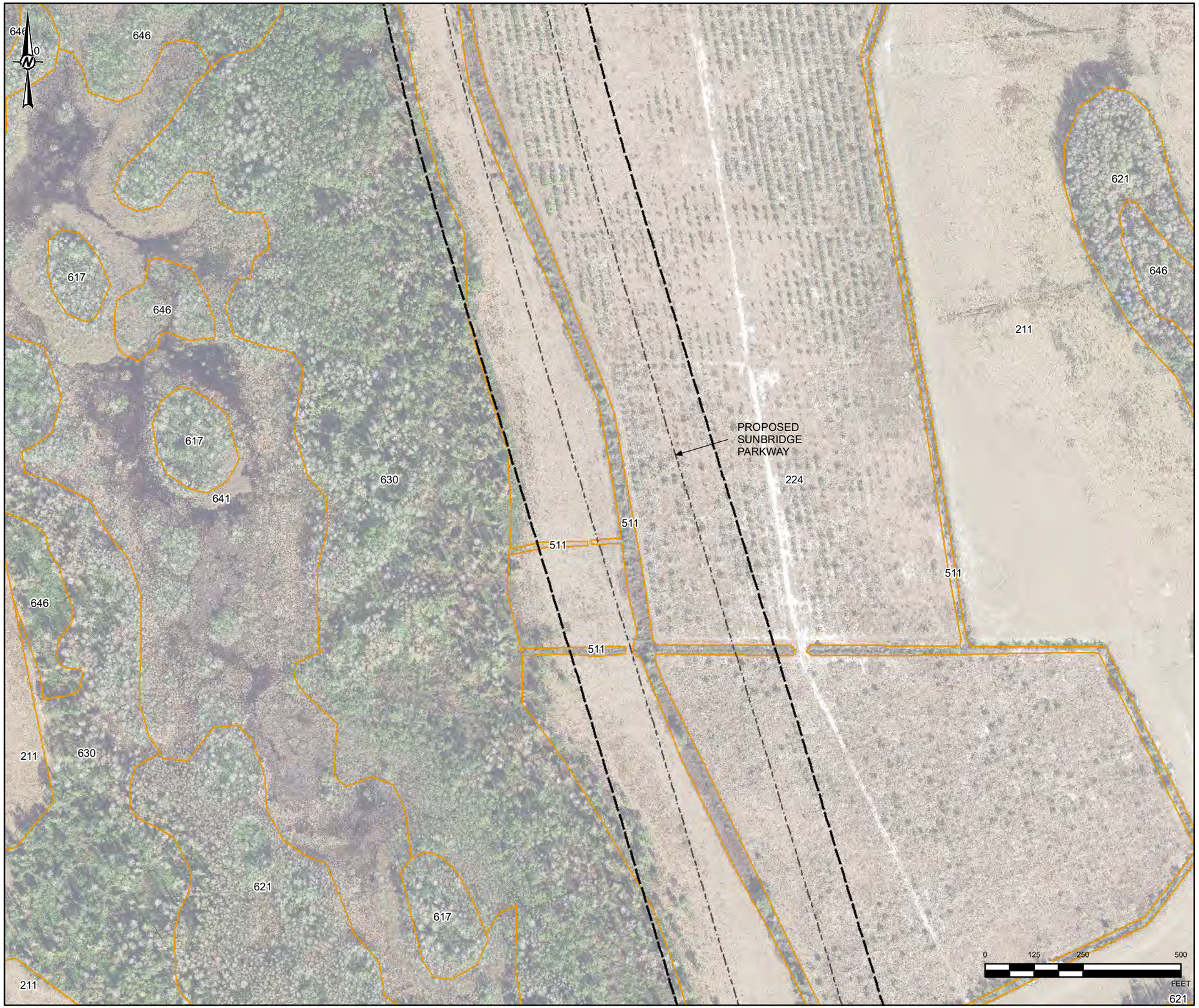

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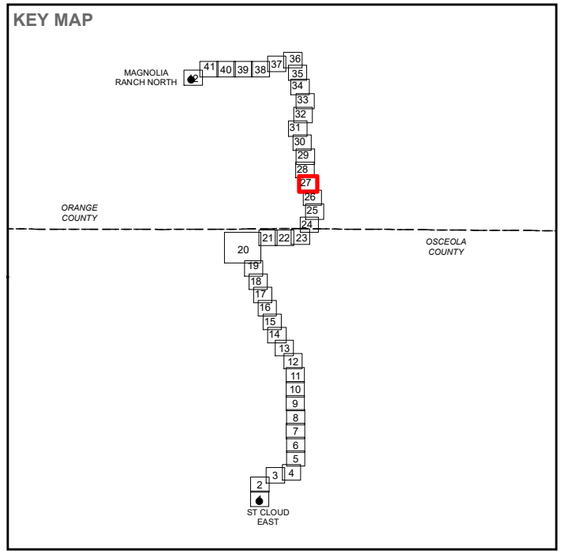

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 224 - ABANDONED GROVES
  - 511 - DITCHES
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 646 - TREELESS HYDRIC SAVANNA

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	NRL
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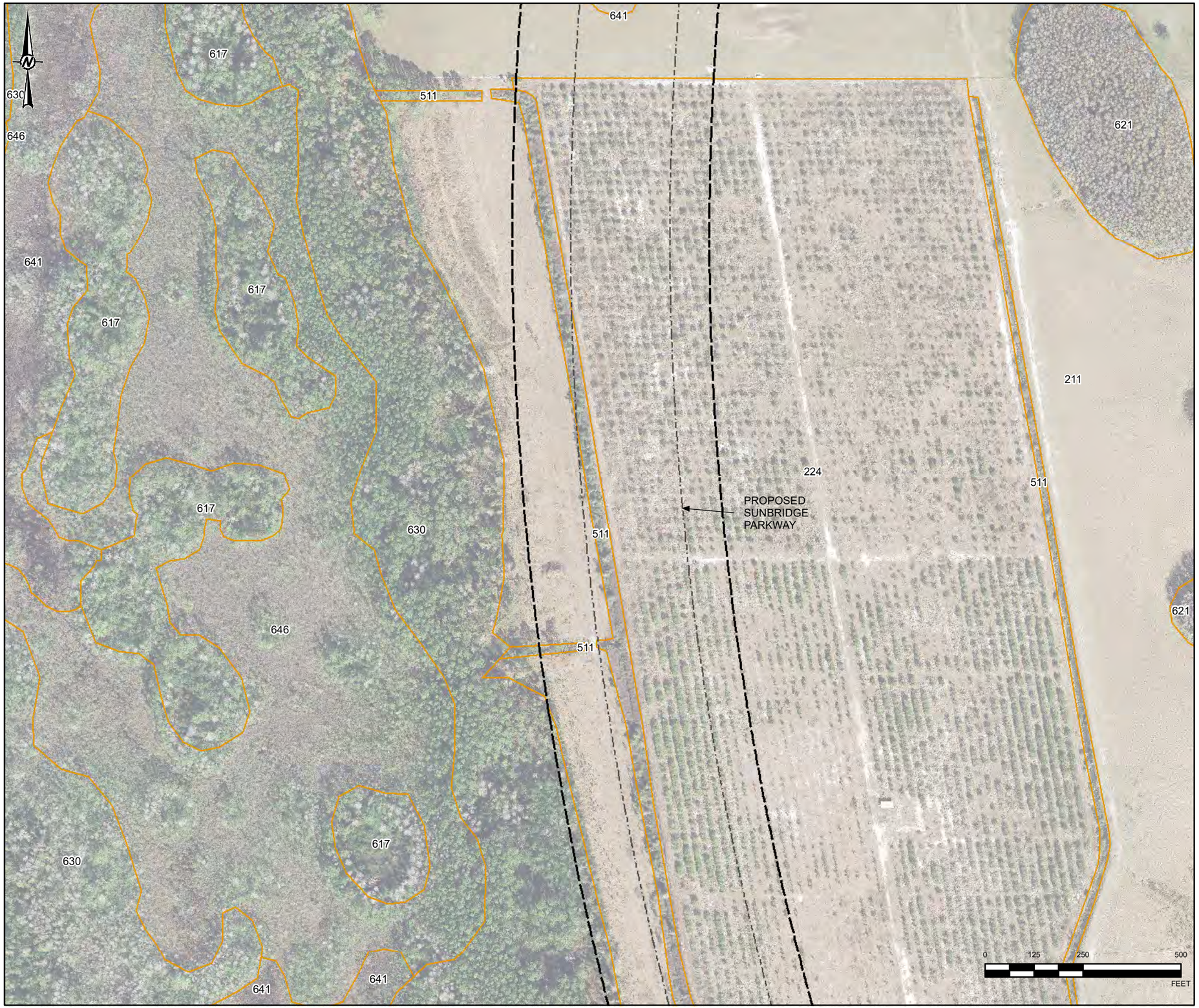
PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\09_PROJECTS\19115515_TL\5A\C_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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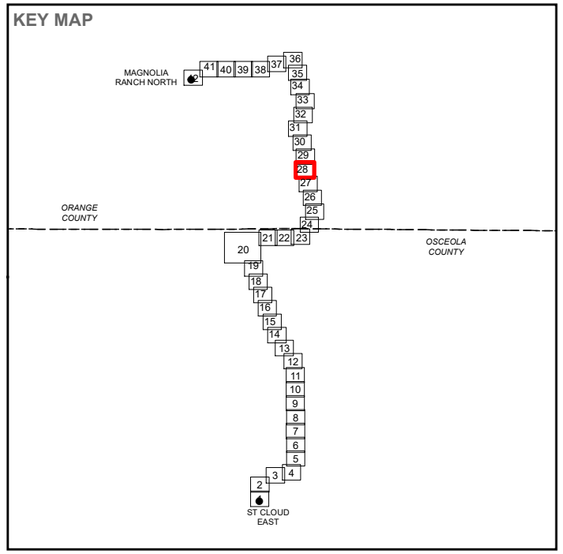

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 224 - ABANDONED GROVES
  - 511 - DITCHES
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 646 - TREELESS HYDRIC SAVANNA

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
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ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
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PROJECT NO.	CONTROL	REV.	FIGURE
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PATH: G:\Projects\OUC\SiCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLS\AC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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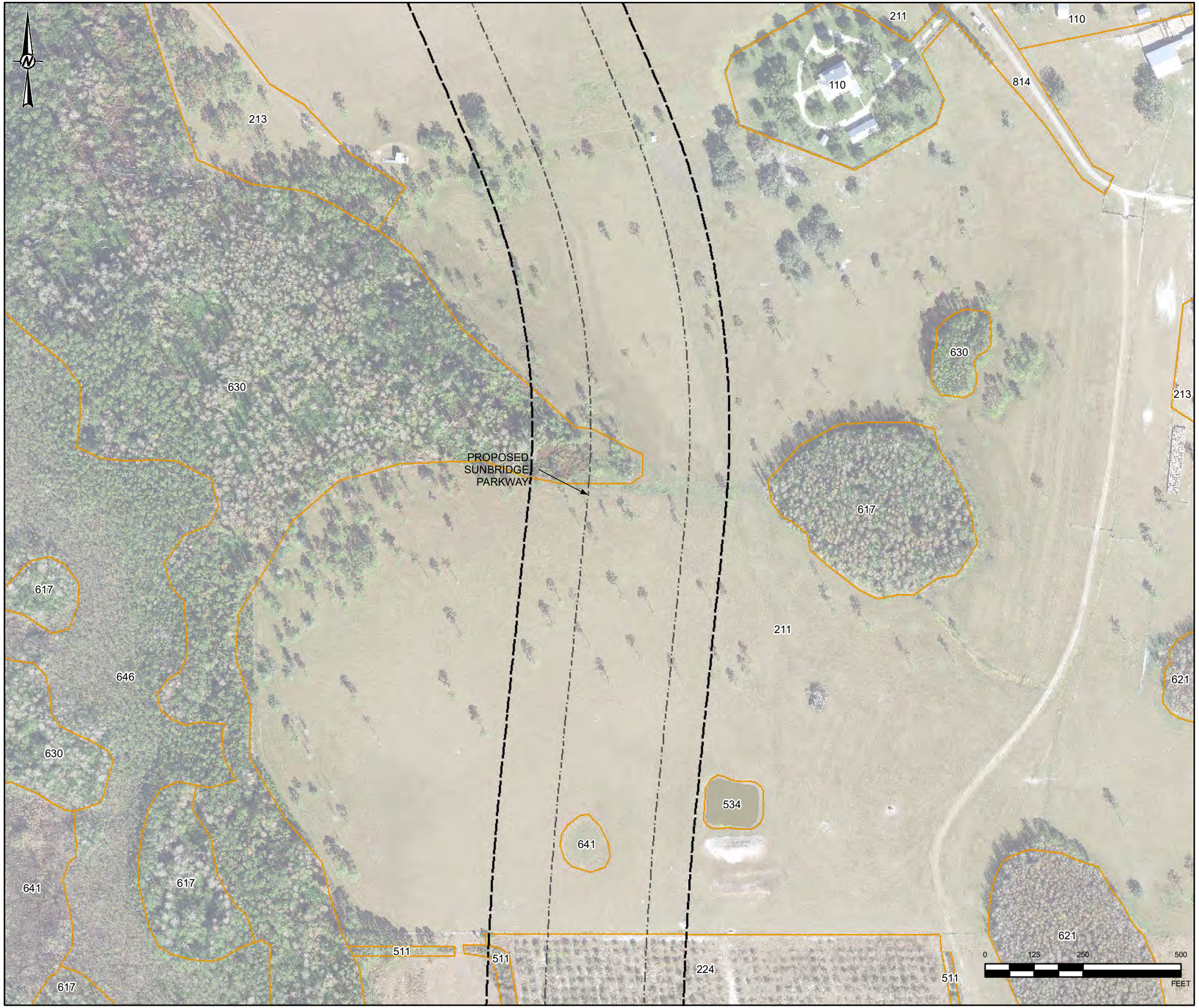

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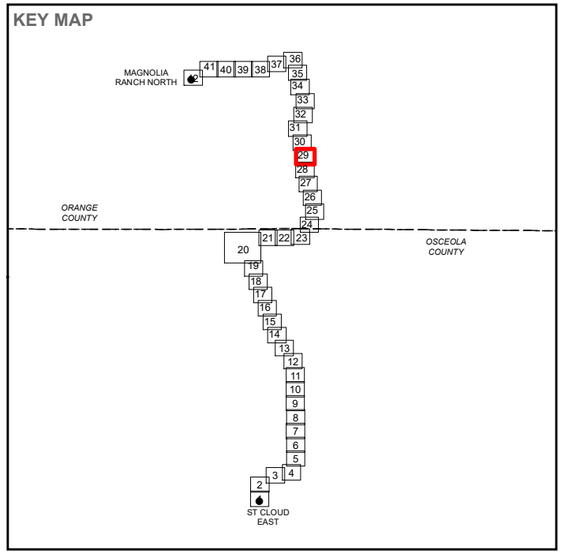

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER

110 - RESIDENTIAL, LOW DENSITY (LESS THAN TWO DWELLING UNITS PER ACRE)
211 - IMPROVED PASTURES
213 - WOODLAND PASTURES
224 - ABANDONED GROVES
511 - DITCHES
534 - RESERVOIRS LESS THAN 10 ACRES (4 HECTARES) WHICH ARE DOMINANT FEATURES
617 - MIXED WETLAND HARDWOODS
621 - CYPRESS
630 - WETLAND FORESTED MIXED
641 - FRESHWATER MARSHES
646 - TREELESS HYDRIC SAVANNA
814 - ROADS AND HIGHWAYS

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
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19115515	C010	0	2-7

PATH: G:\Projects\OUC\SiCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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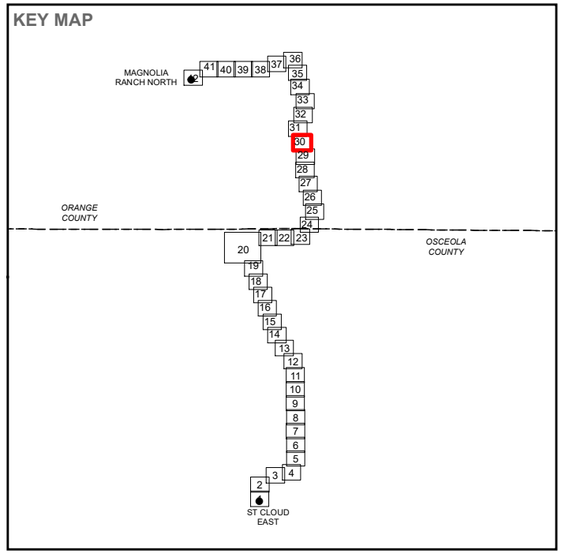

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER
  - 110 - RESIDENTIAL, LOW DENSITY (LESS THAN TWO DWELLING UNITS PER ACRE)
  - 211 - IMPROVED PASTURES
  - 213 - WOODLAND PASTURES
  - 411 - PINE FLATWOODS
  - 617 - MIXED WETLAND HARDWOODS
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 646 - TREELESS HYDRIC SAVANNA
  - 814 - ROADS AND HIGHWAYS

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
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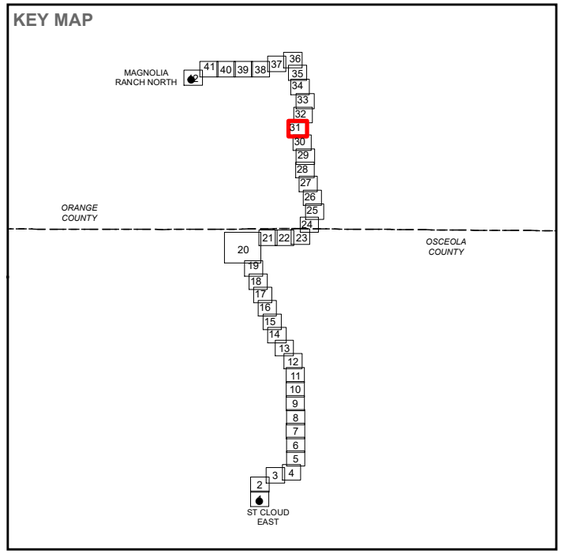

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER
  - 118 - RURAL RESIDENTIAL
  - 211 - IMPROVED PASTURES
  - 213 - WOODLAND PASTURES
  - 320 - SHRUB AND BRUSHLAND
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 511 - DITCHES
  - 530 - RESERVOIRS
  - 621 - CYPRESS
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 814 - ROADS AND HIGHWAYS

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
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PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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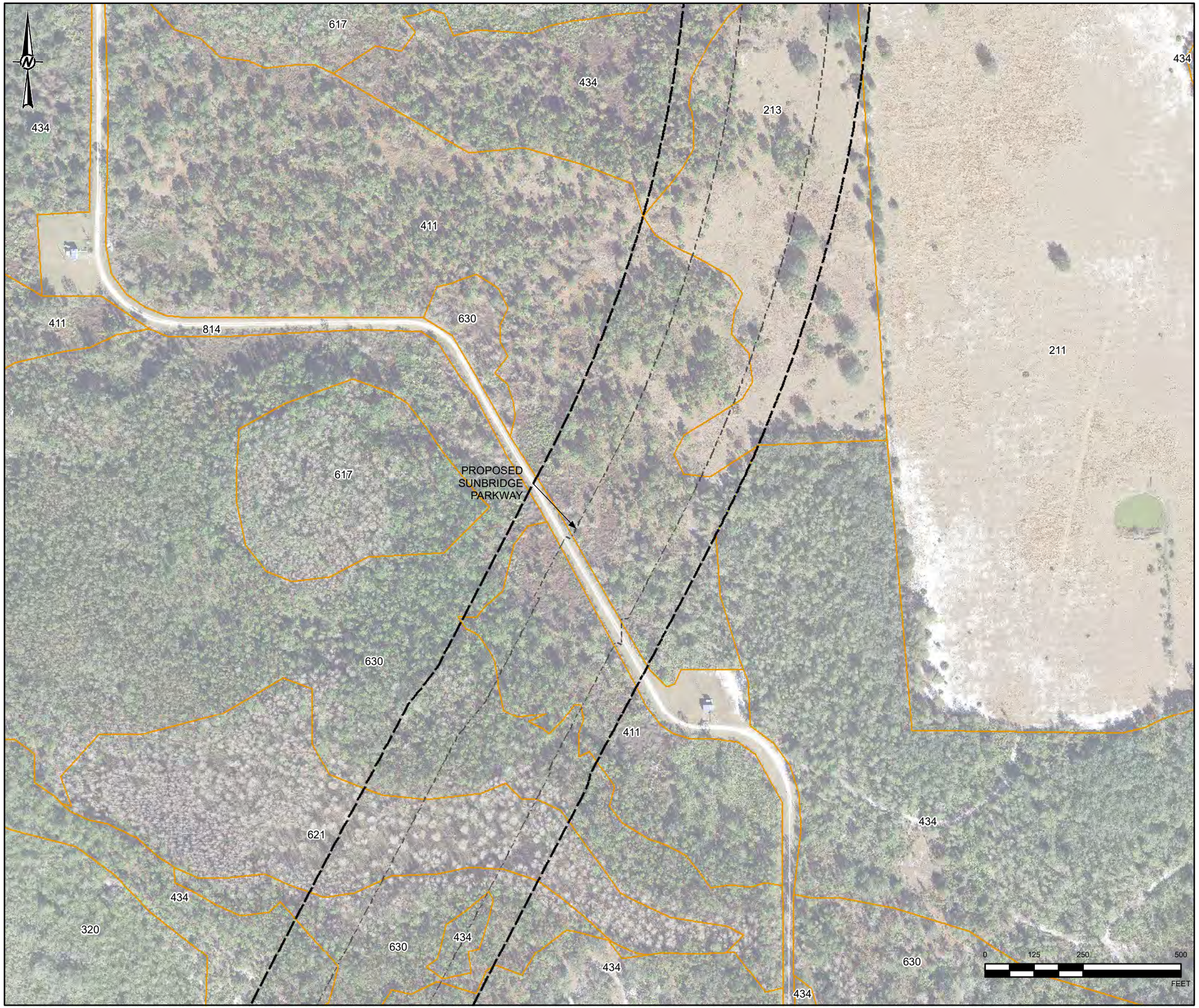

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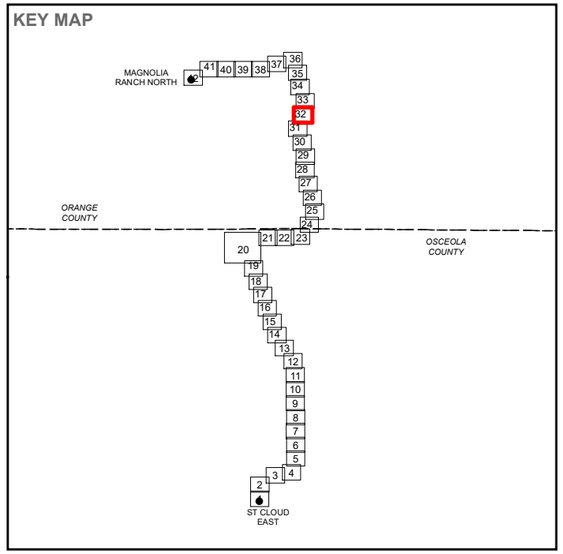

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 213 - WOODLAND PASTURES
  - 320 - SHRUB AND BRUSHLAND
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 814 - ROADS AND HIGHWAYS

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SCSCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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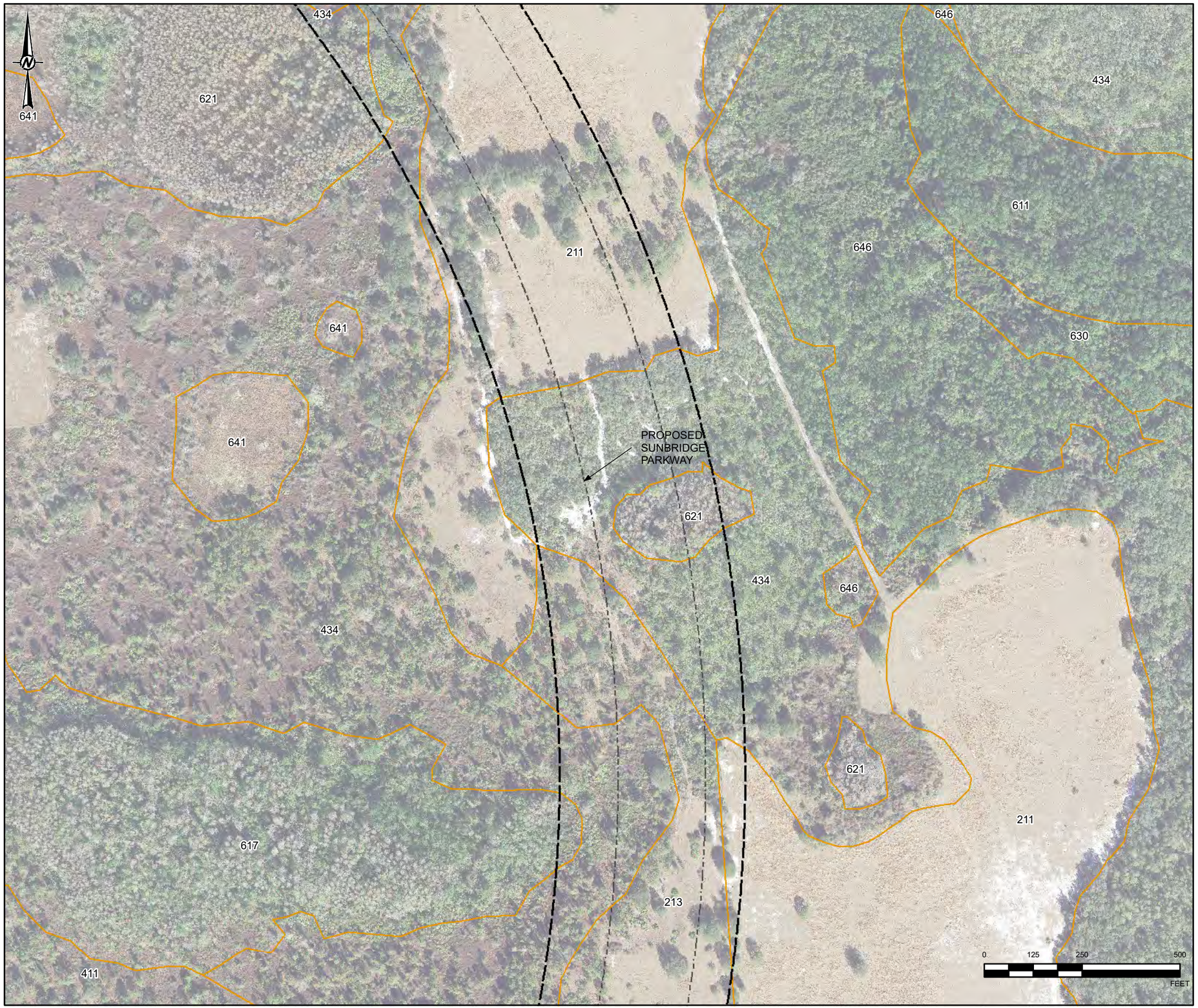

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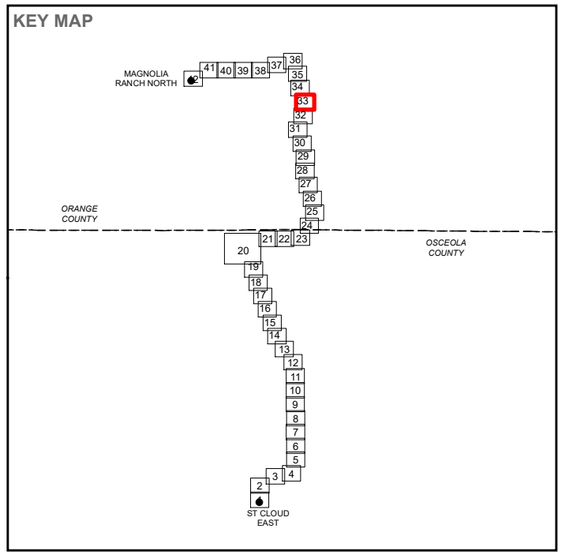

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 213 - WOODLAND PASTURES
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 611 - BAY SWAMPS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 646 - TREELESS HYDRIC SAVANNA

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

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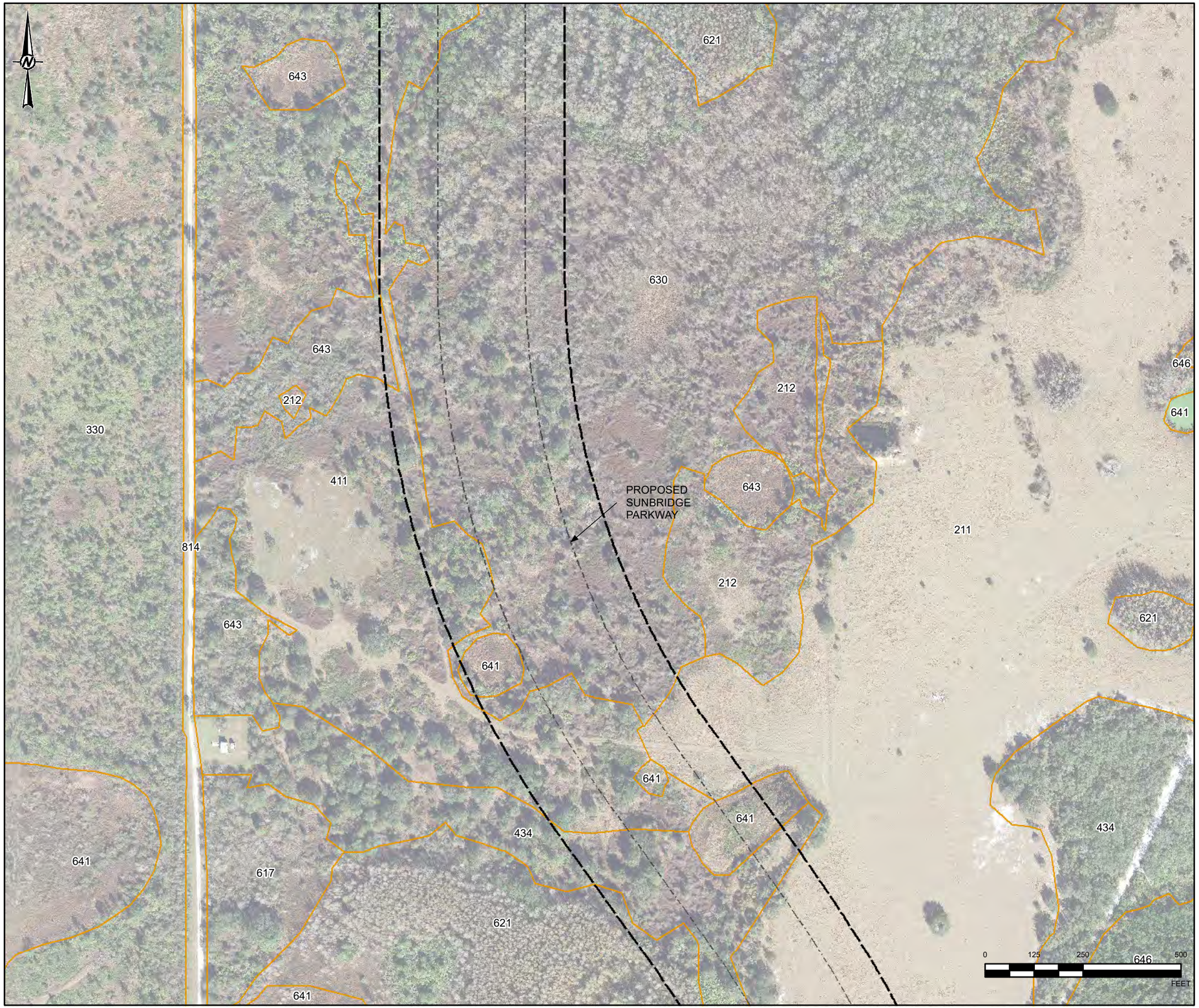

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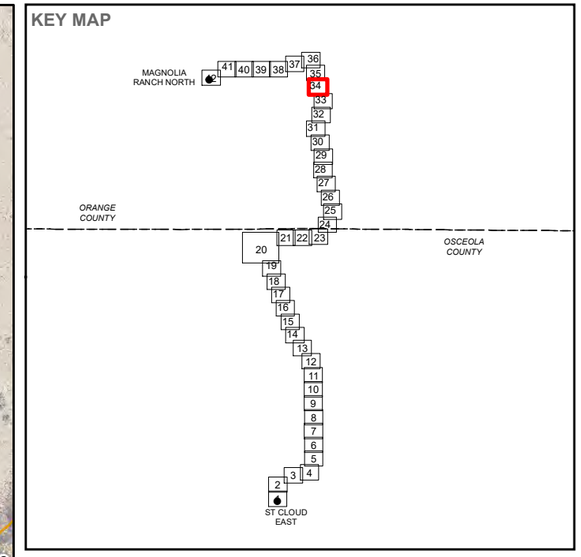

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER
  - 211 - IMPROVED PASTURES
  - 212 - UNIMPROVED PASTURES
  - 330 - MIXED RANGELAND
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 646 - TREELESS HYDRIC SAVANNA
  - 814 - ROADS AND HIGHWAYS

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

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PROJECT NO.	CONTROL	REV.	FIGURE
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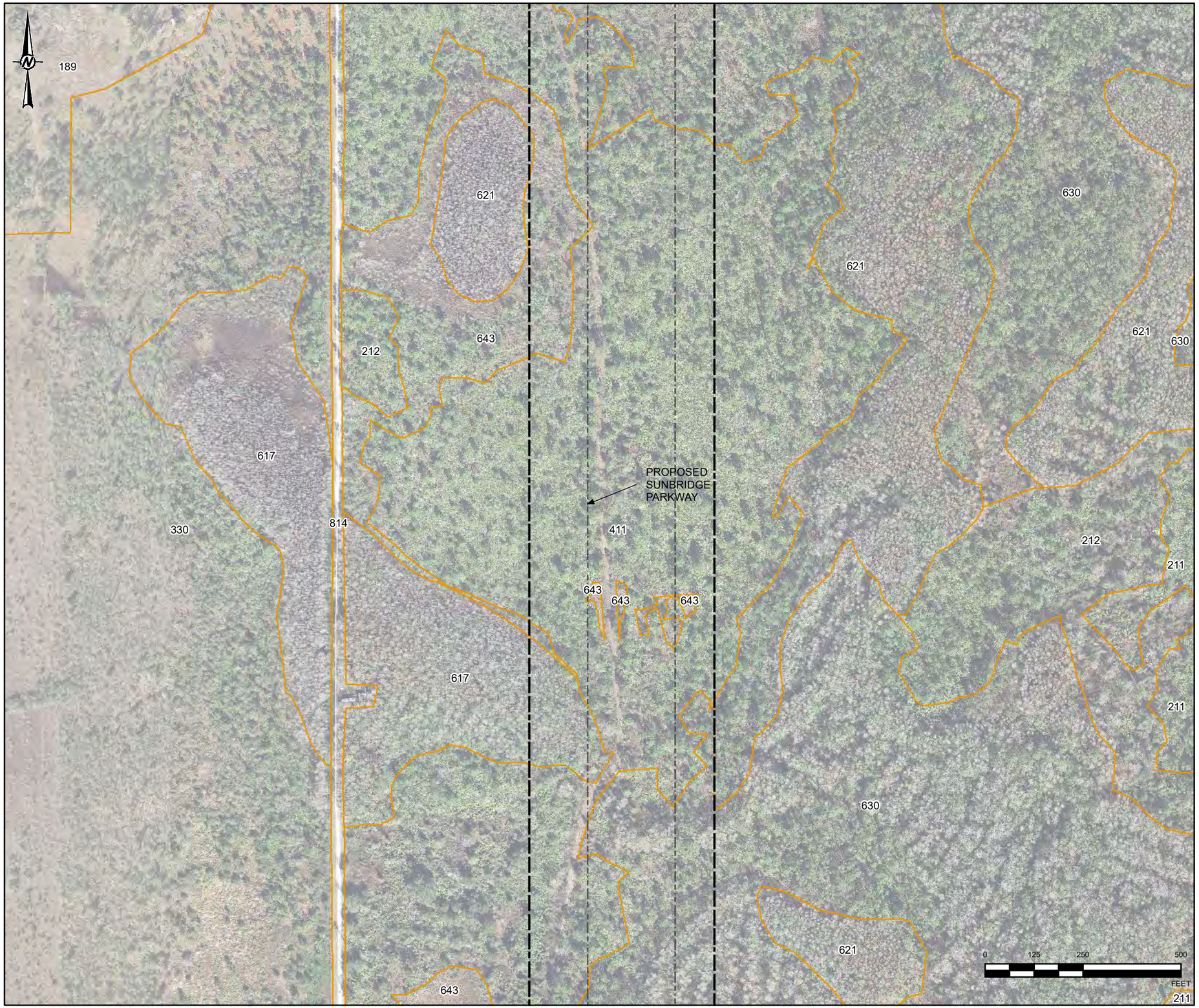

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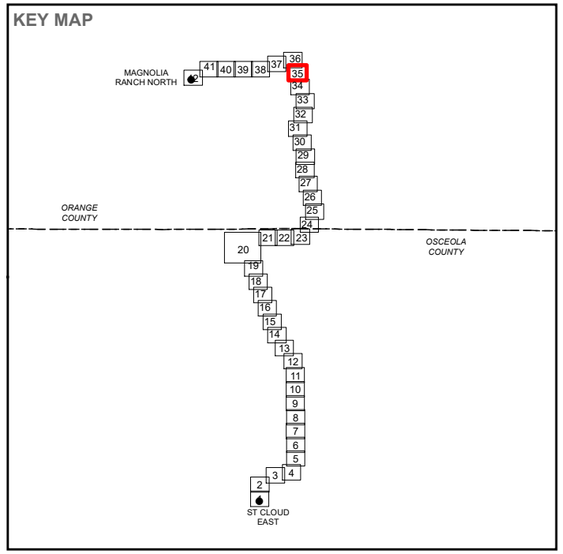

LEGEND

- PROPOSED CORRIDOR
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER
  - 189 - OTHER RECREATIONAL
  - 211 - IMPROVED PASTURES
  - 212 - UNIMPROVED PASTURES
  - 330 - MIXED RANGELAND
  - 411 - PINE FLATWOODS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 643 - WET PRAIRIES
  - 814 - ROADS AND HIGHWAYS

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
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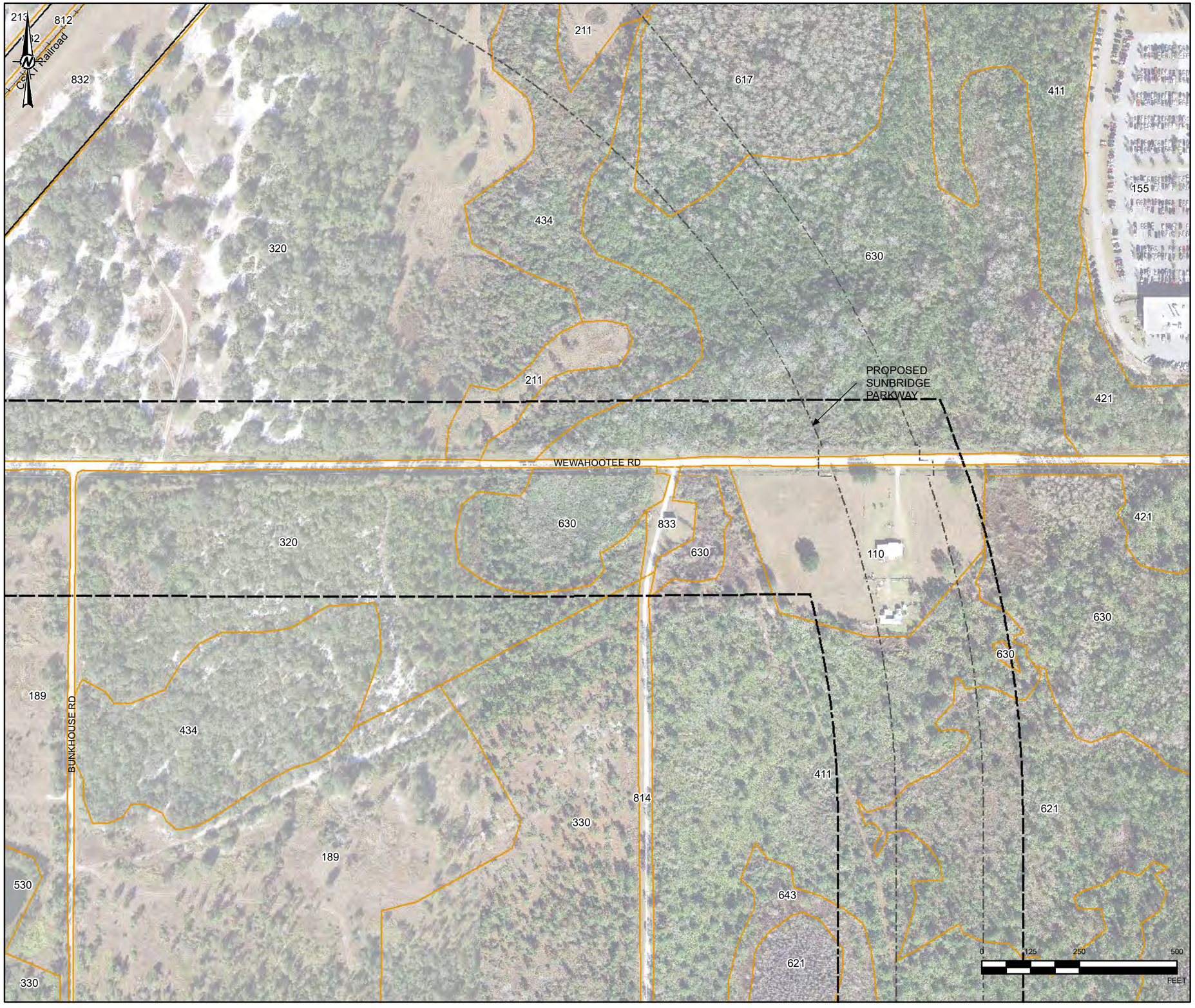
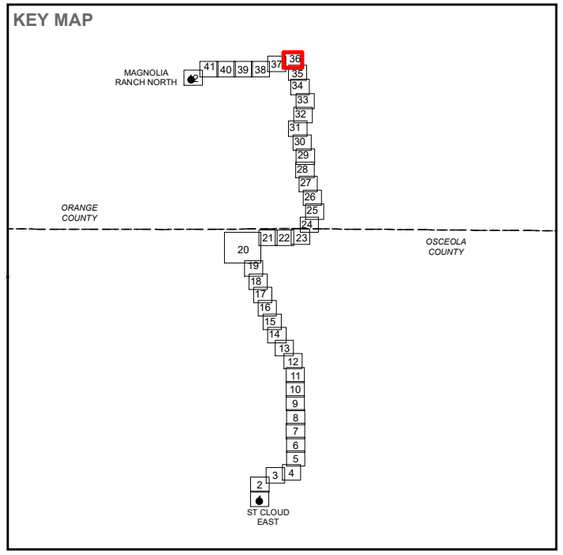


KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC LAKE NONA - STANTON TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- LAND USE / LAND COVER
  - 110 - RESIDENTIAL, LOW DENSITY (LESS THAN TWO DWELLING UNITS PER ACRE)
  - 155 - OTHER LIGHT INDUSTRIAL
  - 189 - OTHER RECREATIONAL
  - 211 - IMPROVED PASTURES
  - 213 - WOODLAND PASTURES
  - 320 - SHRUB AND BRUSHLAND
  - 330 - MIXED RANGELAND
  - 411 - PINE FLATWOODS
  - 421 - XERIC OAK
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 530 - RESERVOIRS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 643 - WET PRAIRIES
  - 812 - RAILROADS
  - 814 - ROADS AND HIGHWAYS
  - 832 - ELECTRICAL POWER TRANSMISSION LINES
  - 833 - WATER SUPPLY PLANTS

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
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PROJECT
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TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TL&AC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

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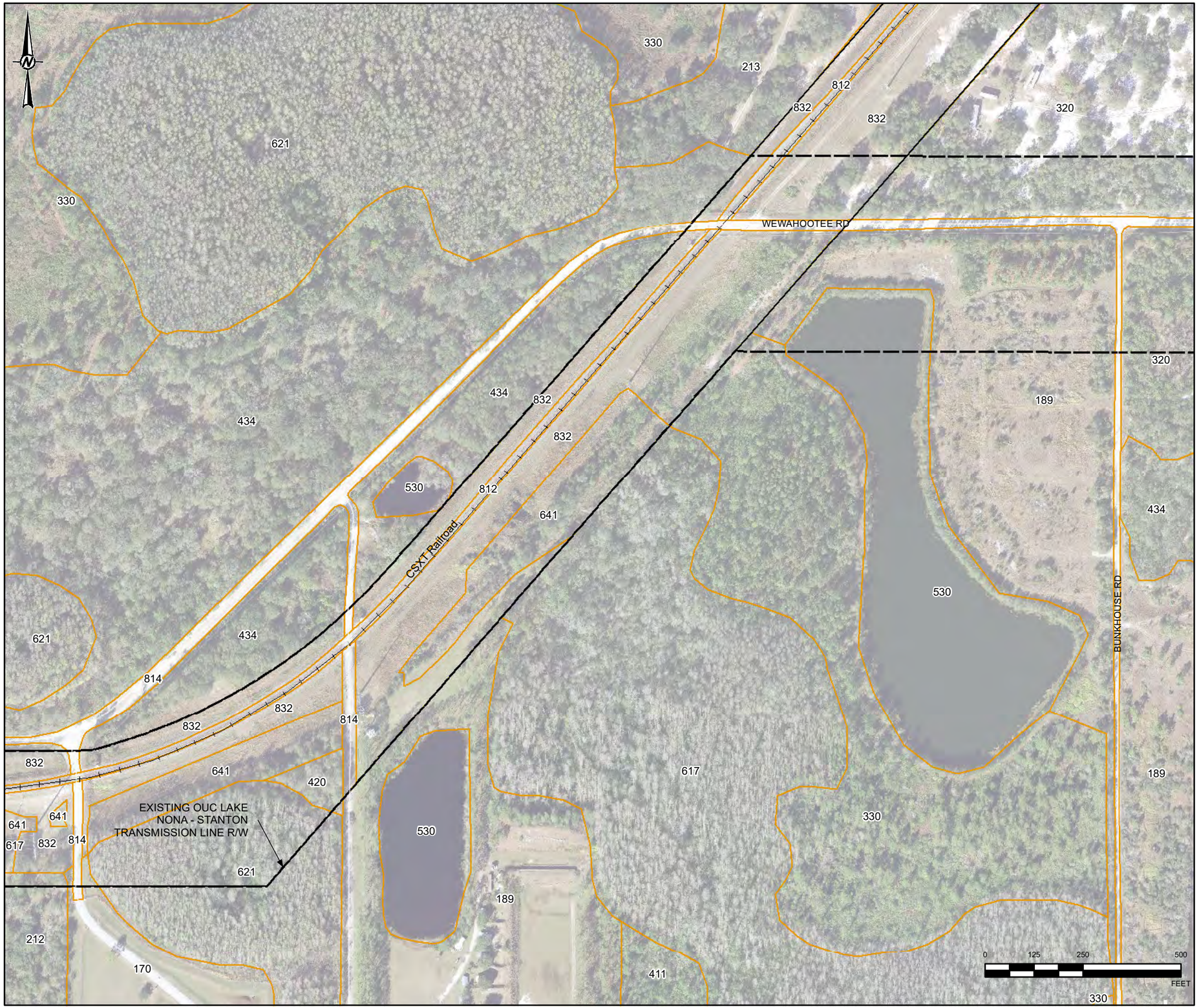

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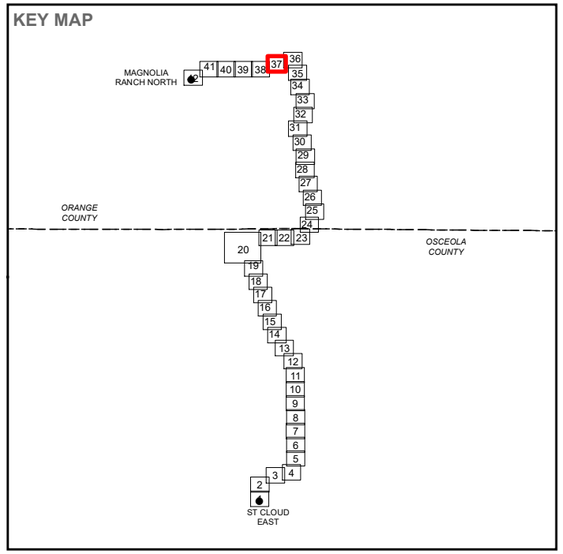

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC LAKE NONA - STANTON TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 170 - INSTITUTIONAL
  - 189 - OTHER RECREATIONAL
  - 212 - UNIMPROVED PASTURES
  - 213 - WOODLAND PASTURES
  - 320 - SHRUB AND BRUSHLAND
  - 330 - MIXED RANGELAND
  - 411 - PINE FLATWOODS
  - 420 - UPLAND HARDWOOD FORESTS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 530 - RESERVOIRS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 641 - FRESHWATER MARSHES
  - 812 - RAILROADS
  - 814 - ROADS AND HIGHWAYS
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
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REVIEWED	KAB
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

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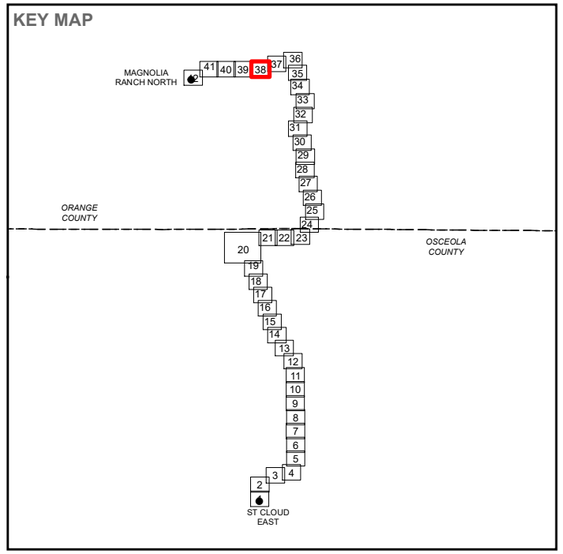
KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC LAKE NONA - STANTON TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 140 - COMMERCIAL AND SERVICES
  - 170 - INSTITUTIONAL
  - 211 - IMPROVED PASTURES
  - 212 - UNIMPROVED PASTURES
  - 330 - MIXED RANGELAND
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 641 - FRESHWATER MARSHES
  - 812 - RAILROADS
  - 814 - ROADS AND HIGHWAYS
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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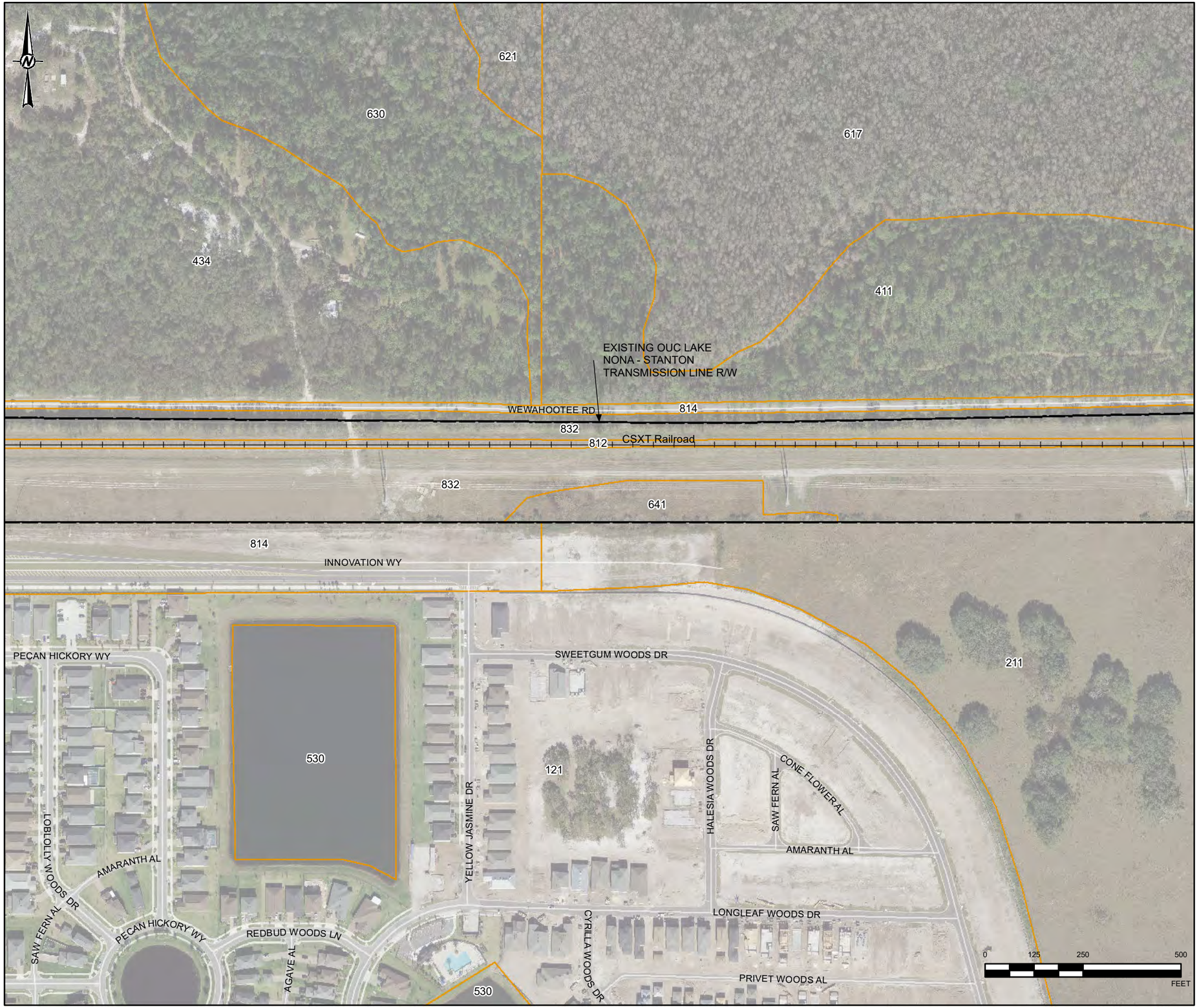

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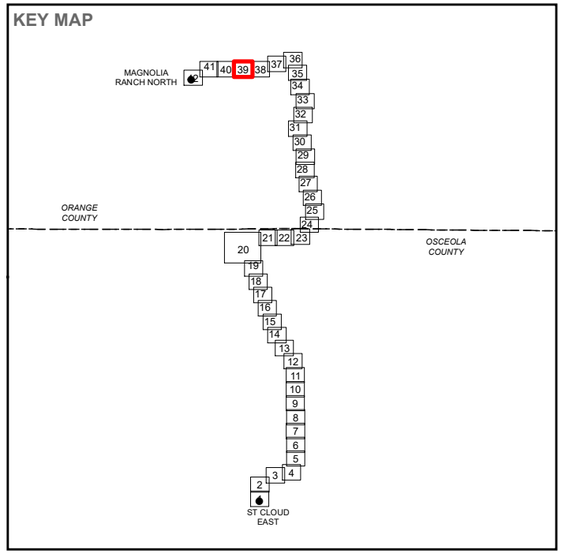

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC LAKE NONA - STANTON TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 121 - FIXED SINGLE FAMILY UNITS
  - 211 - IMPROVED PASTURES
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 530 - RESERVOIRS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 812 - RAILROADS
  - 814 - ROADS AND HIGHWAYS
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
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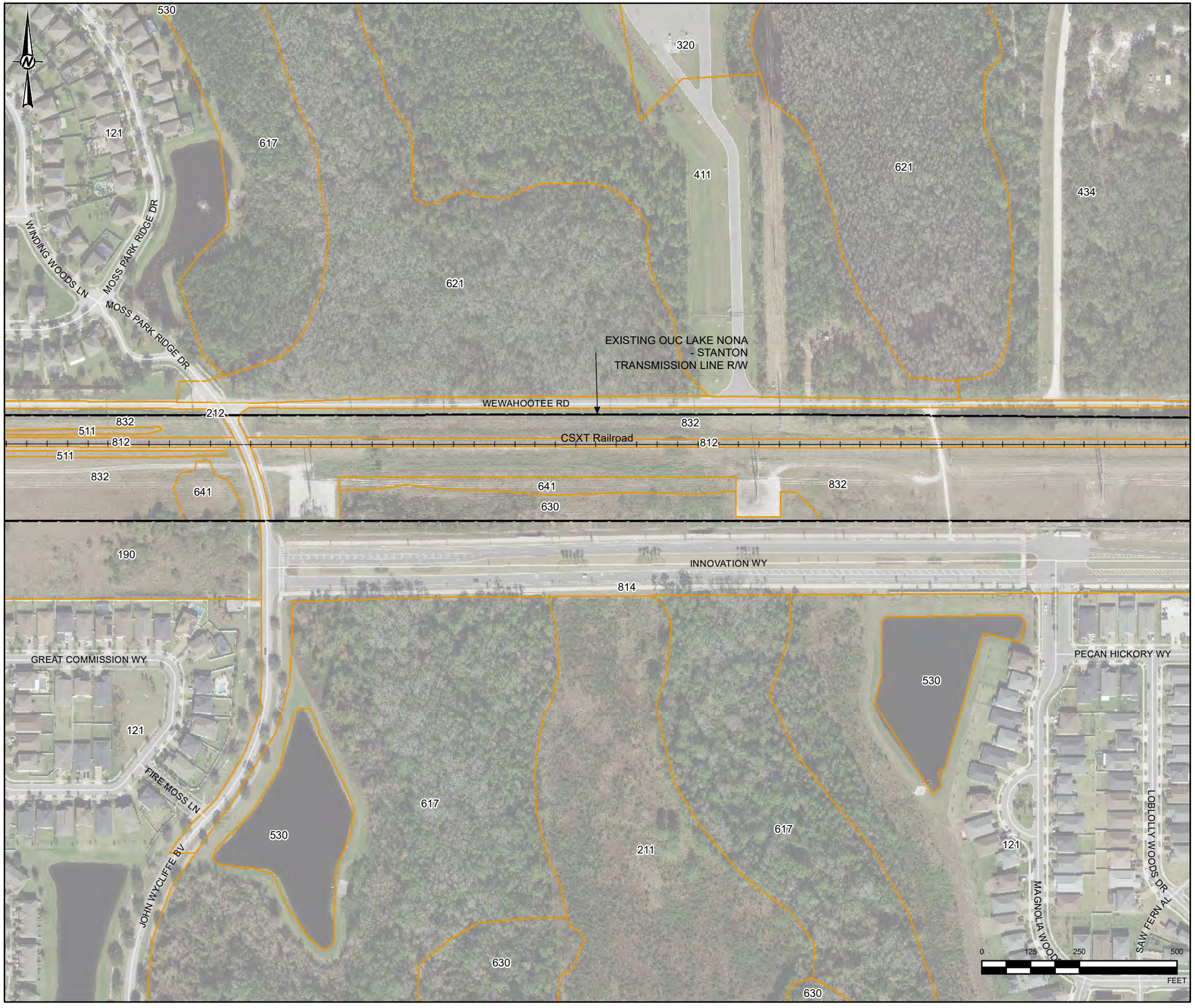

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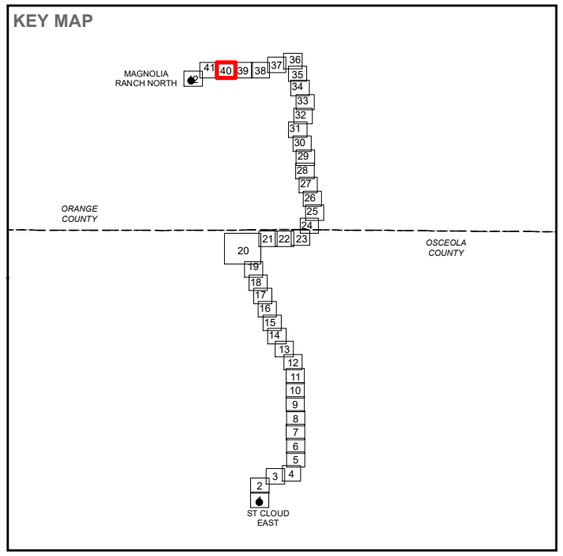

LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC LAKE NONA - STANTON TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 121 - FIXED SINGLE FAMILY UNITS
  - 190 - OPEN LAND
  - 211 - IMPROVED PASTURES
  - 212 - UNIMPROVED PASTURES
  - 320 - SHRUB AND BRUSHLAND
  - 411 - PINE FLATWOODS
  - 434 - HARDWOOD-CONIFEROUS MIXED
  - 511 - DITCHES
  - 530 - RESERVOIRS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 812 - RAILROADS
  - 814 - ROADS AND HIGHWAYS
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)
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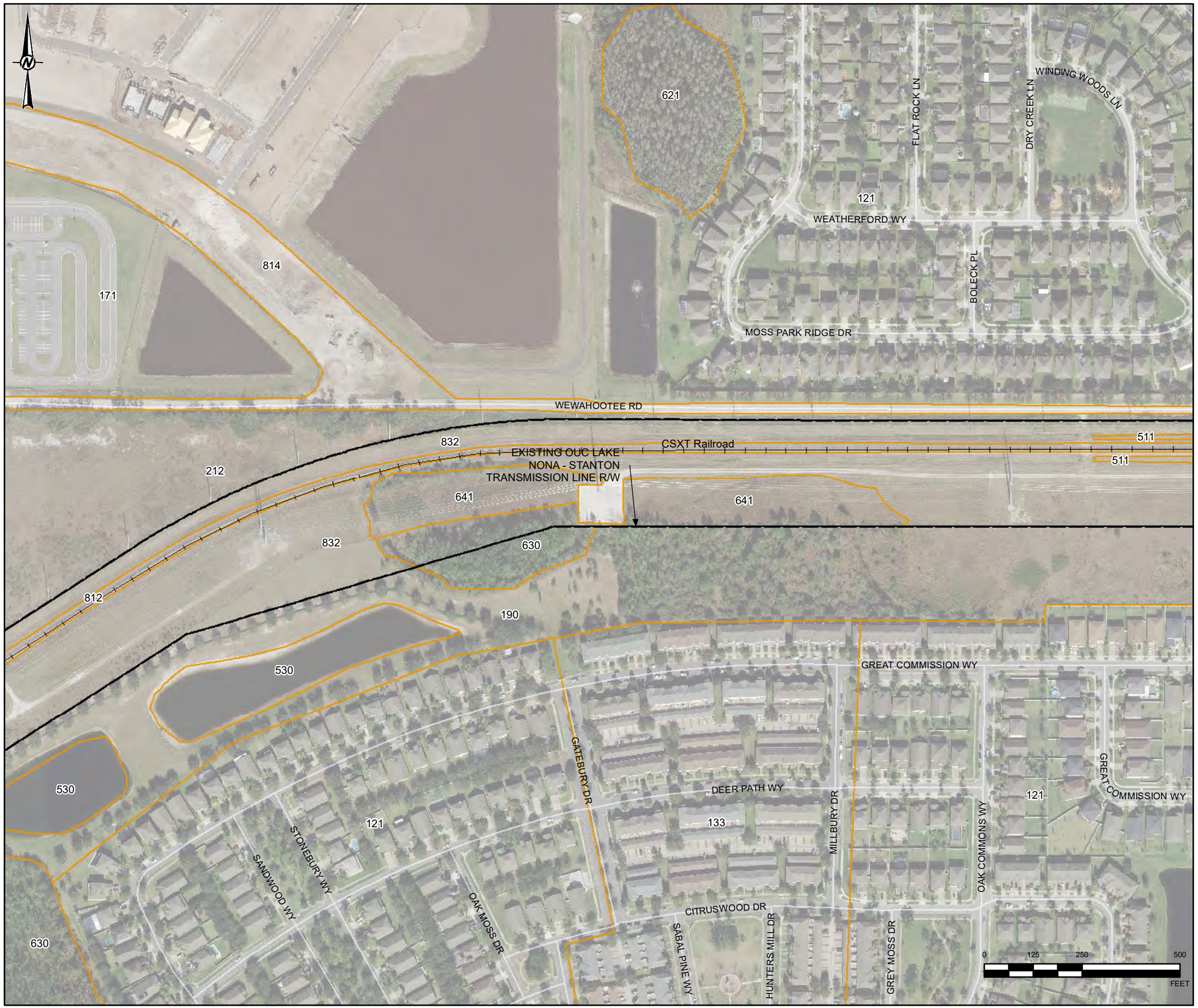
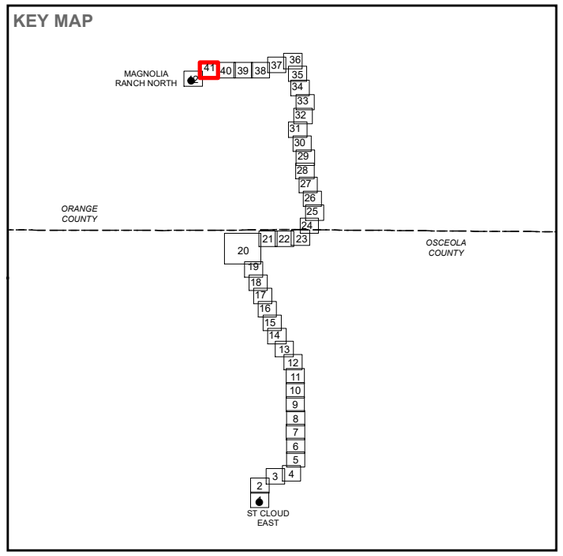


KEY MAP



LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC LAKE NONA - STANTON TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 121 - FIXED SINGLE FAMILY UNITS
  - 133 - MULTIPLE DWELLING UNITS, LOW RISE (TWO STORIES OR LESS)
  - 171 - EDUCATIONAL FACILITIES
  - 190 - OPEN LAND
  - 212 - UNIMPROVED PASTURES
  - 511 - DITCHES
  - 530 - RESERVOIRS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 812 - RAILROADS
  - 814 - ROADS AND HIGHWAYS
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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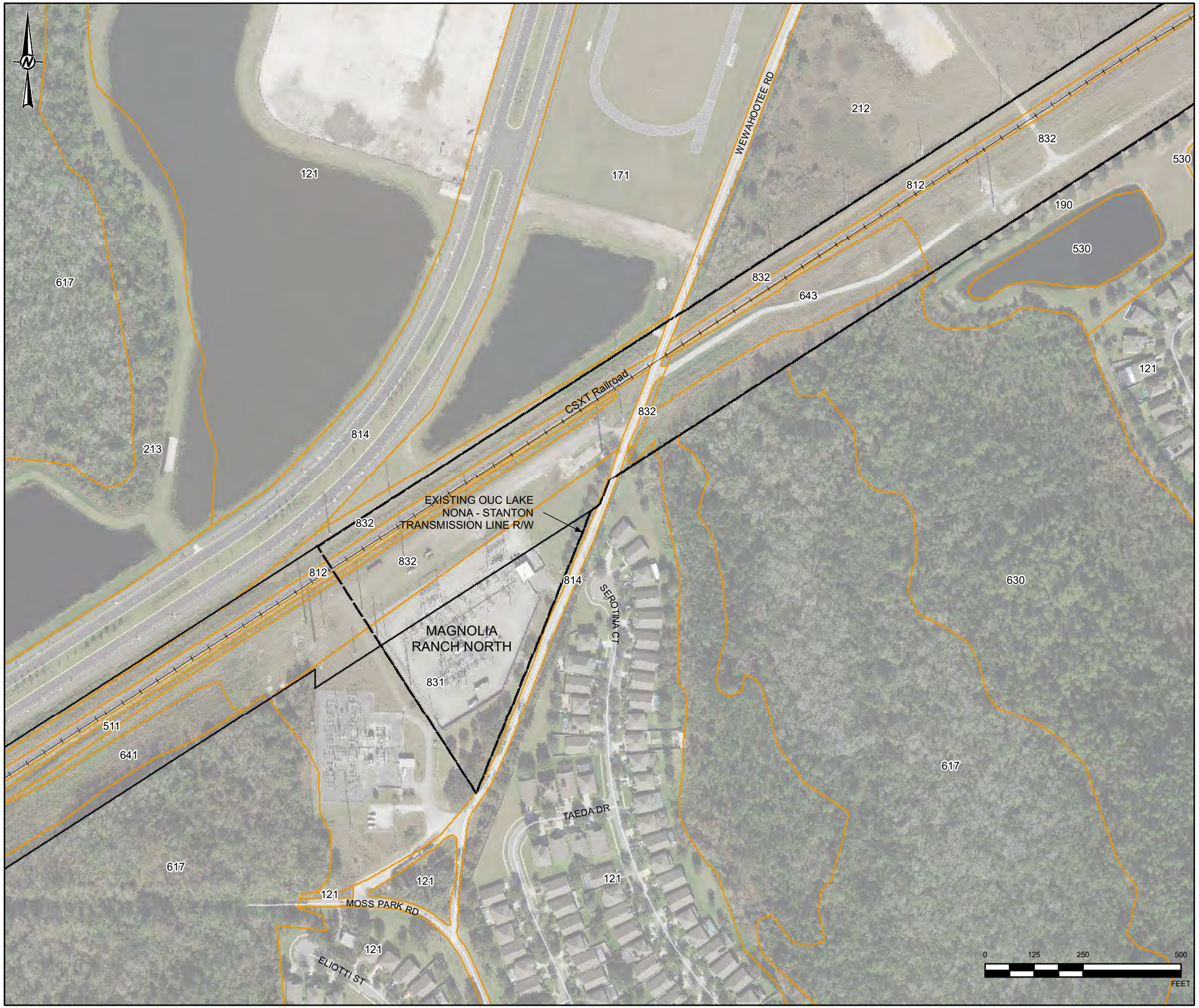

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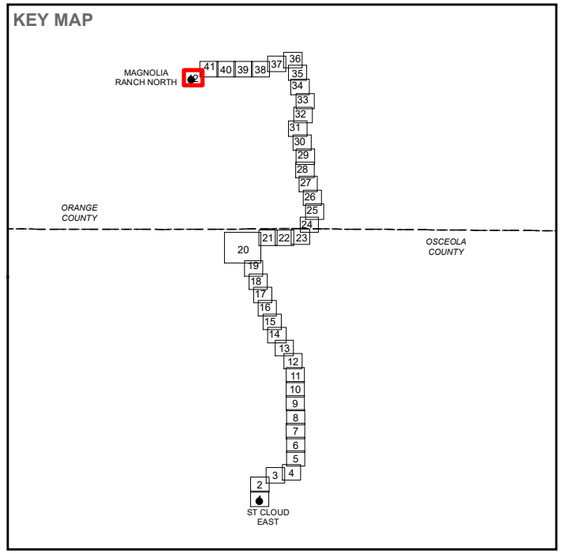


LEGEND

- PROPOSED CORRIDOR
- EXISTING OUC LAKE NONA - STANTON TRANSMISSION LINE R/W
- LAND USE / LAND COVER
  - 121 - FIXED SINGLE FAMILY UNITS
  - 171 - EDUCATIONAL FACILITIES
  - 190 - OPEN LAND
  - 212 - UNIMPROVED PASTURES
  - 213 - WOODLAND PASTURES
  - 511 - DITCHES
  - 530 - RESERVOIRS
  - 617 - MIXED WETLAND HARDWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 812 - RAILROADS
  - 814 - ROADS AND HIGHWAYS
  - 831 - ELECTRIC POWER FACILITIES
  - 832 - ELECTRICAL POWER TRANSMISSION LINES

REFERENCE(S)
1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020
3. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
4. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LAND USE AND VEGETATION COVER

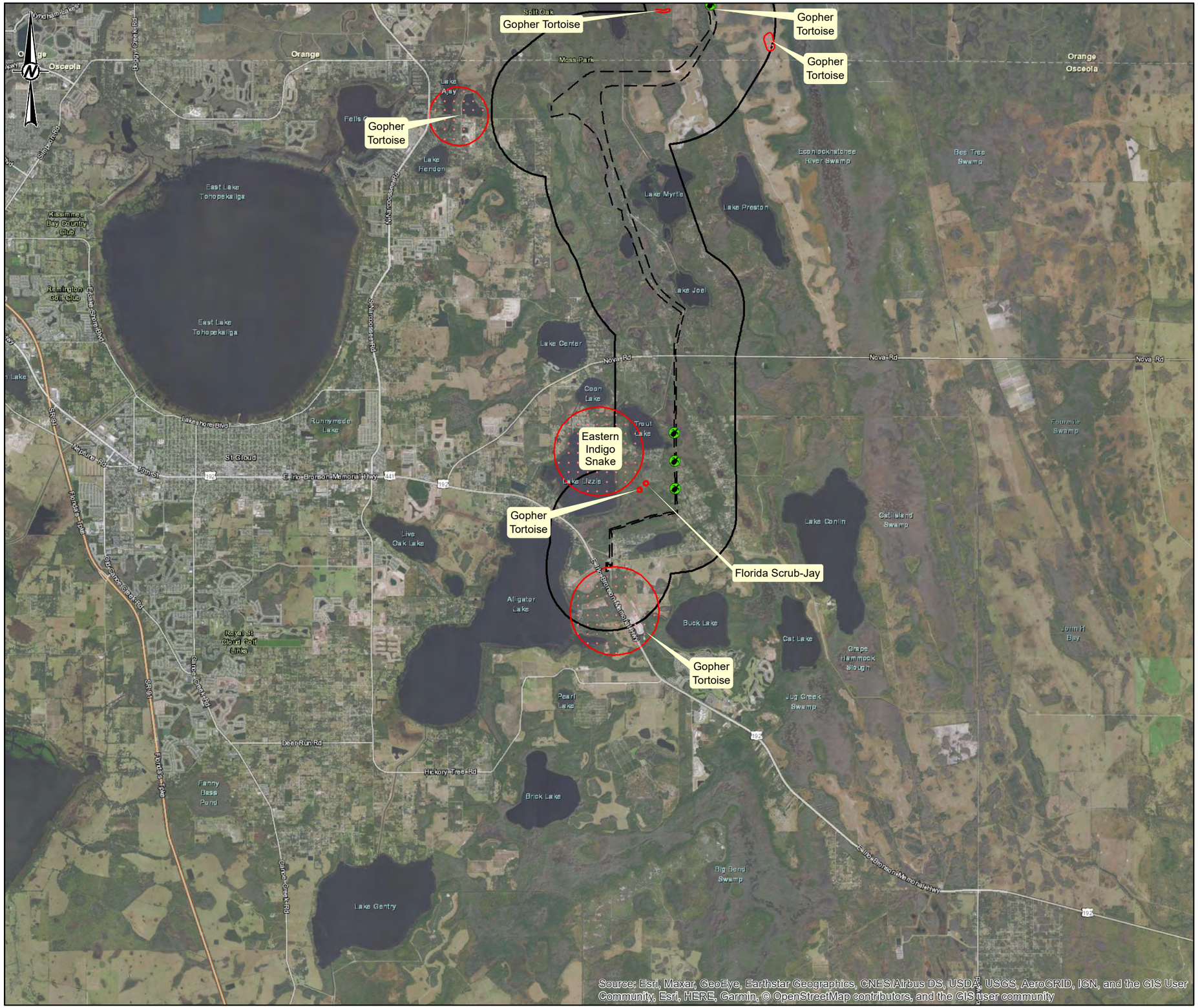
CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	NRL
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C010	0	2-7

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLS\AC_Permitting\02_PRODUCTION\MXD\19115515_C010_LandUse.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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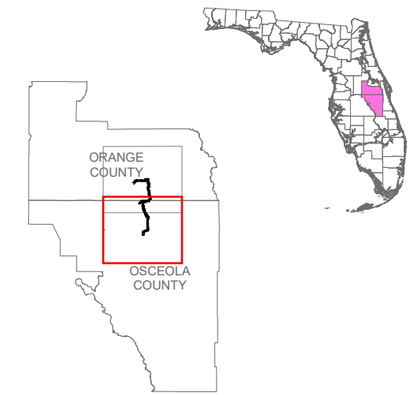


LEGEND

- PROPOSED CORRIDOR
- 1 MILE CORRIDOR BUFFER

OBSERVED SPECIES

- GOPHER TORTOISE

FNAI OCCURRENCES

- MEDIUM (>20%, <=80%);A1
- HIGH (>80%, <=95%);A2
- MEDIUM (>20%, <=80%);A2
- LOW (>5%, <=20%);A2

0 0.825 1.65 3.3
MILES

REFERENCE(S)

1. EXISTING TRANSMISSION, EXISTING SUBSTATIONS, OAK RIDGE NATIONAL LABORATORY, 2019.
2. PROPOSED CORRIDOR, OUC & GOLDER, 2019.
3. OBSERVED SPECIES, GOLDER, 2020
4. FL ELEMENT OCCURRENCE, FLORIDA NATURAL AREAS INVENTORY (FNAI), 2018.

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LISTED SPECIES

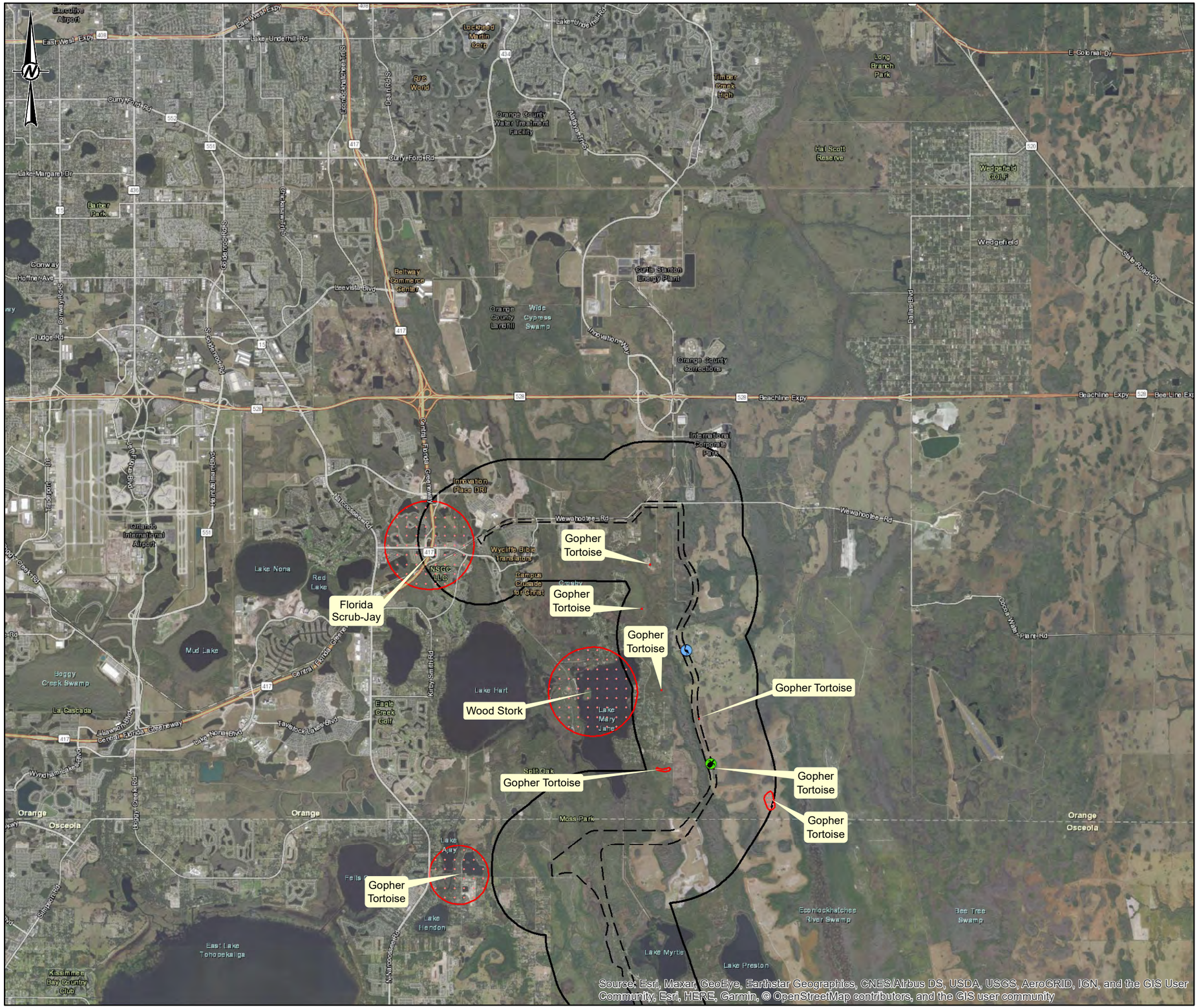
CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C011	0	2-8

PATH: G:\Projects\OUC\SIG\cloud_Magnolia\Ranch_TransmissionLine\99_PROJECTS\19115515_TLS\AIC_Permitting\02_PRODUCTION\MXD\19115515_C011_Listed_Species.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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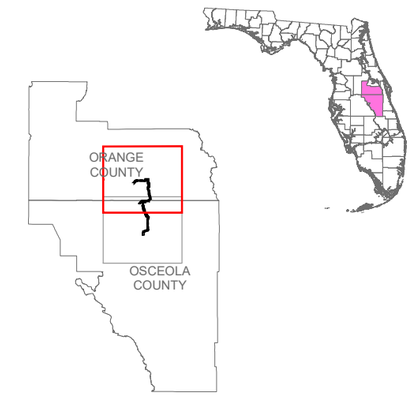


LEGEND

- PROPOSED CORRIDOR
- 1 MILE CORRIDOR BUFFER

OBSERVED SPECIES

- GOPHER TORTOISE
- SANDHILL CRANE

FNAI OCCURRENCES

- VERY HIGH (>95%);A1
- HIGH (>80%, <=95%);A2
- MEDIUM (>20%, <=80%);A2
- LOW (>5%, <=20%);A2

0 0.825 1.65 3.3
MILES

REFERENCE(S)

1. EXISTING TRANSMISSION, EXISTING SUBSTATIONS, OAK RIDGE NATIONAL LABORATORY, 2019.
2. PROPOSED CORRIDOR, OUC & GOLDER, 2019.
3. OBSERVED SPECIES, GOLDER, 2020
4. FL ELEMENT OCCURRENCE, FLORIDA NATURAL AREAS INVENTORY (FNAI), 2018.

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
LISTED SPECIES

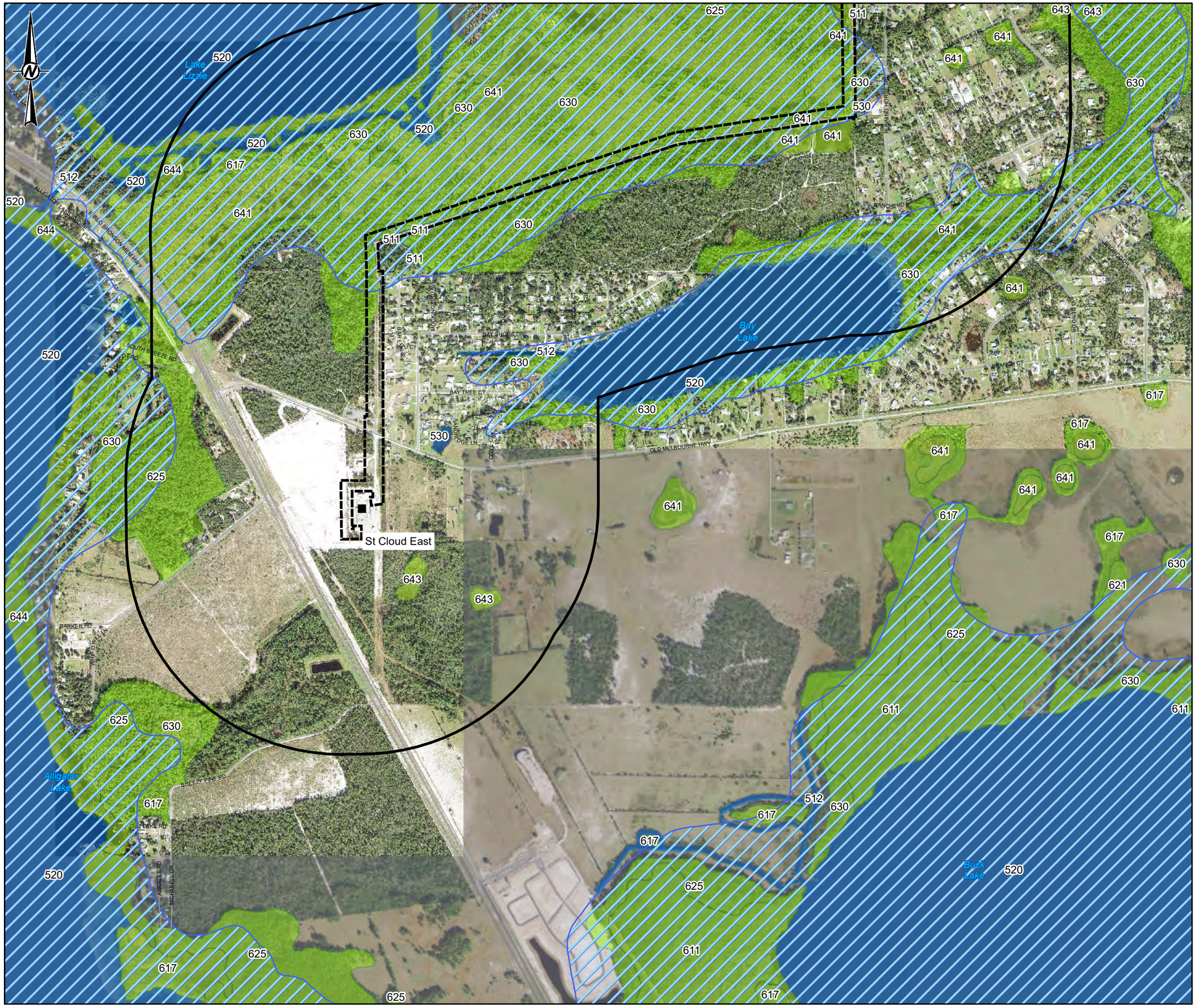
CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C011	0	2-8

PATH: G:\Projects\OUC\SlCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAIC_Permitting\02_PRODUCTION\MXD\19115515_C011_Listed_Species.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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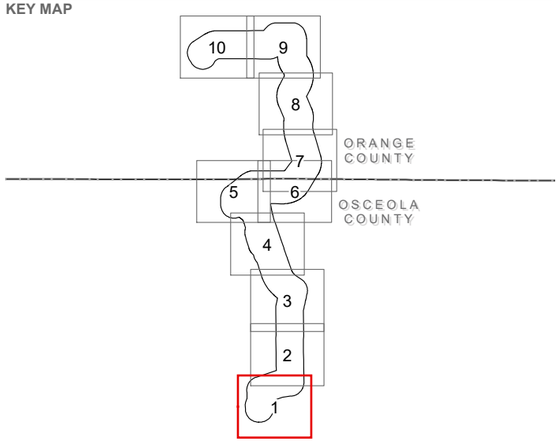


LEGEND

- EXISTING SUBSTATIONS
- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- 100-YR FLOOD ZONE

SFWMD / SJRWMD / GOLDER WATERBODIES AND WETLANDS

- WATERBODIES
  - 511 - DITCHES
  - 512 - CHANNELIZED WATERWAY
  - 520 - LAKES
  - 530 - RESERVOIRS
- WETLANDS
  - 611 - BAY SWAMPS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 644 - EMERGENT AQUATIC VEGETATION

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. FEMA FLOOD ZONES, FEDERAL EMERGENCY MANAGEMENT AGENCY, 2019
3 SFWMD/SJRWMD WETLANDS, SFWMD 2016, SJRWMD 2014 AND GOLDER REVISED 2019
4. WATER BODY, USGS NATIONAL HYDROLOGY DATABASE, 2019

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
WATERS, WETLANDS, AND FLOODPLAINS

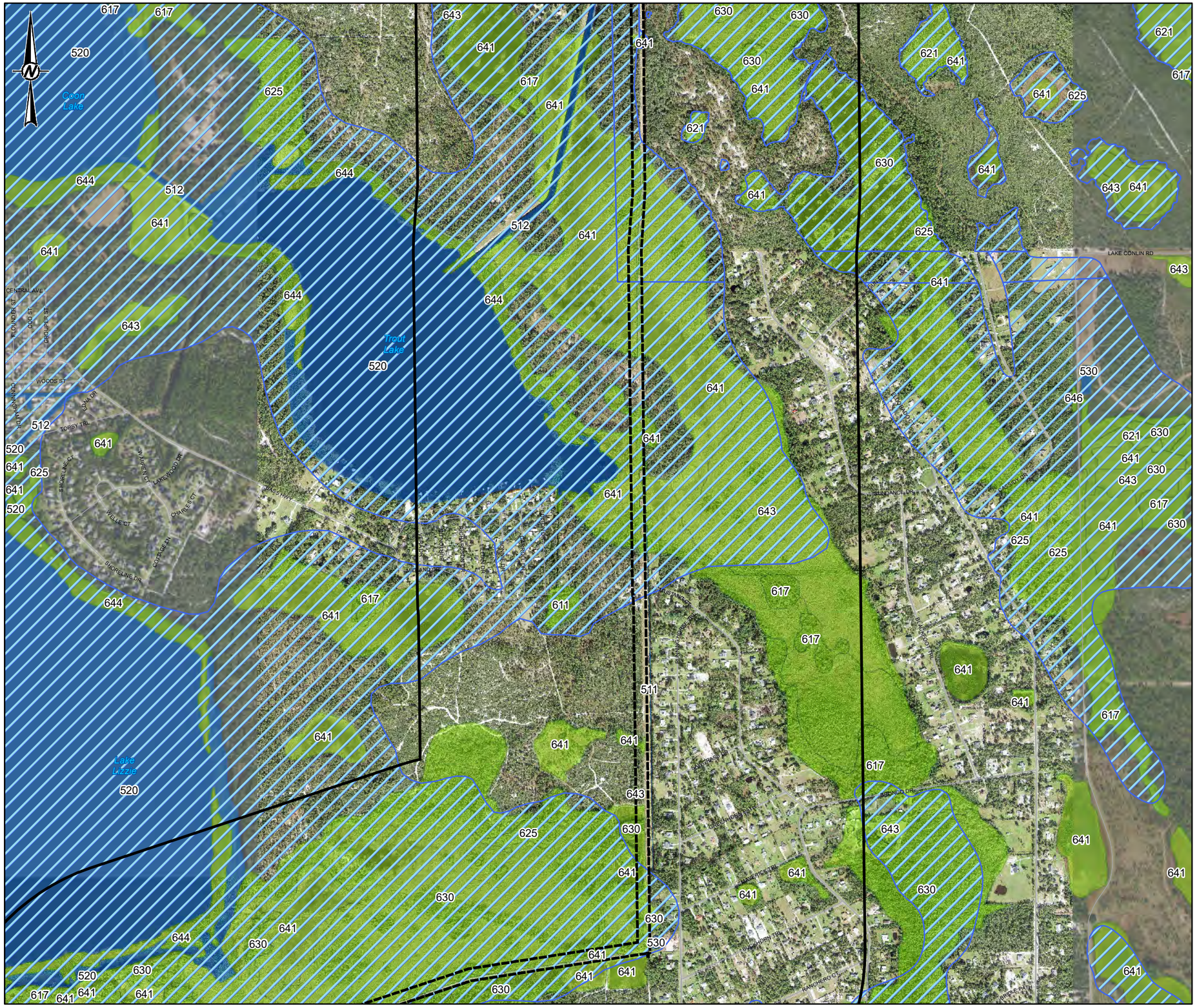
CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C012	0	2-9

PATH: G:\Projects\OUC\SlCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLS\AC_Permitting\02_PRODUCTION\MXD\19115515_C012_Wetlands_Floodplain.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



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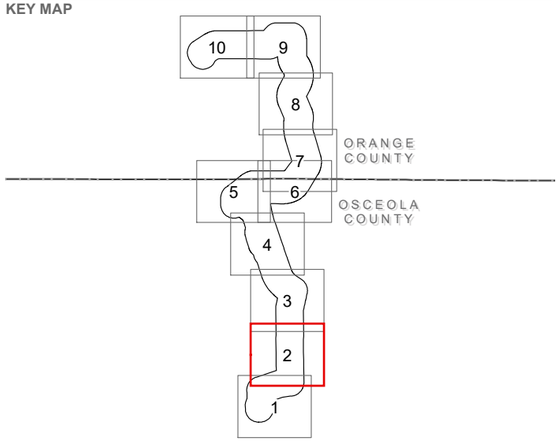

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- 100-YR FLOOD ZONE

SFWMD / SJRWMD / GOLDER WATERBODIES AND WETLANDS

- WATERBODIES
  - 511 - DITCHES
  - 512 - CHANNELIZED WATERWAY
  - 520 - LAKES
  - 530 - RESERVOIRS
- WETLANDS
  - 611 - BAY SWAMPS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 644 - EMERGENT AQUATIC VEGETATION
  - 646 - TREELESS HYDRIC SAVANNA

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. FEMA FLOOD ZONES, FEDERAL EMERGENCY MANAGEMENT AGENCY, 2019
3 SFWMD/SJRWMD WETLANDS, SFWMD 2016, SJRWMD 2014 AND GOLDER REVISED 2019
4. WATER BODY, USGS NATIONAL HYDROLOGY DATABASE, 2019

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
WATERS, WETLANDS, AND FLOODPLAINS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C012	0	**2-9**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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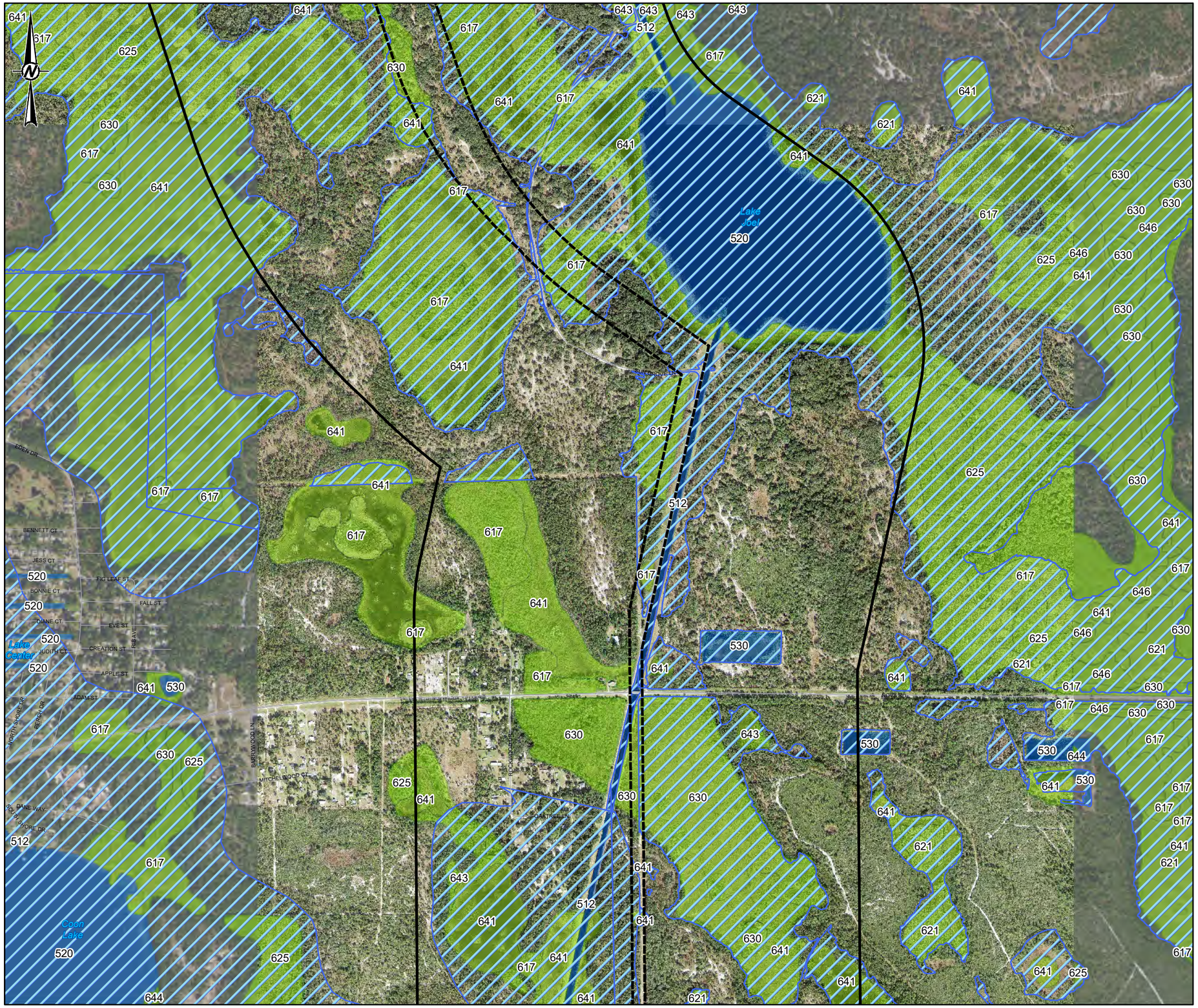

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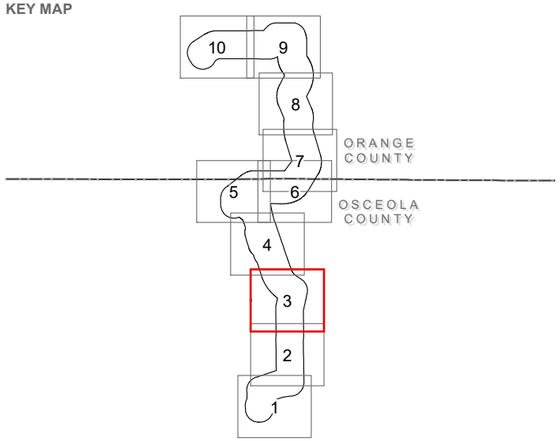

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- 100-YR FLOOD ZONE

SFWMD / SJRWMD / GOLDER WATERBODIES AND WETLANDS

- WATERBODIES
  - 512 - CHANNELIZED WATERWAY
  - 520 - LAKES
  - 530 - RESERVOIRS
- WETLANDS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 644 - EMERGENT AQUATIC VEGETATION
  - 646 - TREELESS HYDRIC SAVANNA

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. FEMA FLOOD ZONES, FEDERAL EMERGENCY MANAGEMENT AGENCY, 2019
3 SFWMD/SJRWMD WETLANDS, SFWMD 2016, SJRWMD 2014 AND GOLDER REVISED 2019
4. WATER BODY, USGS NATIONAL HYDROLOGY DATABASE, 2019

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
WATERS, WETLANDS, AND FLOODPLAINS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C012	0	**2-9**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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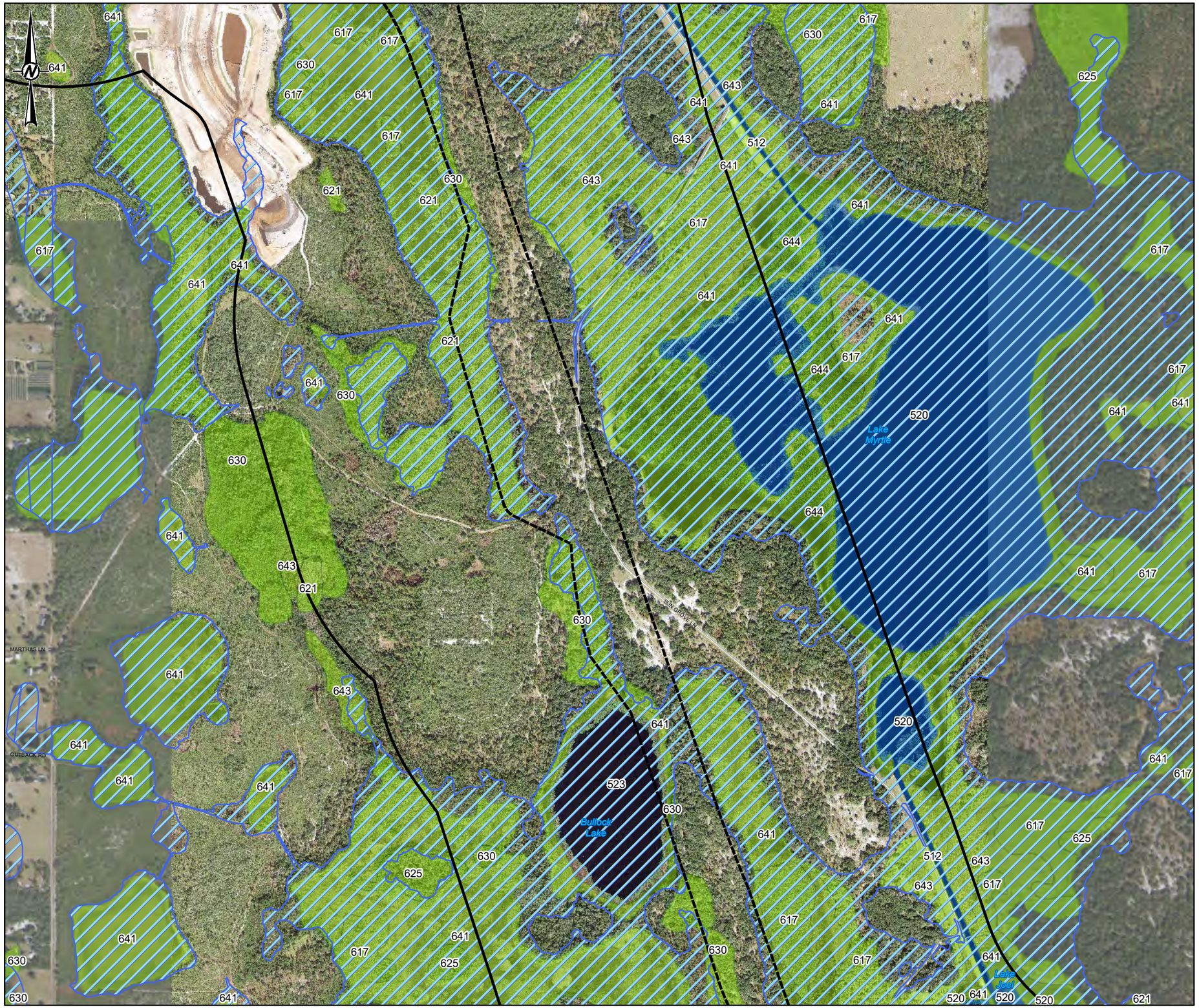

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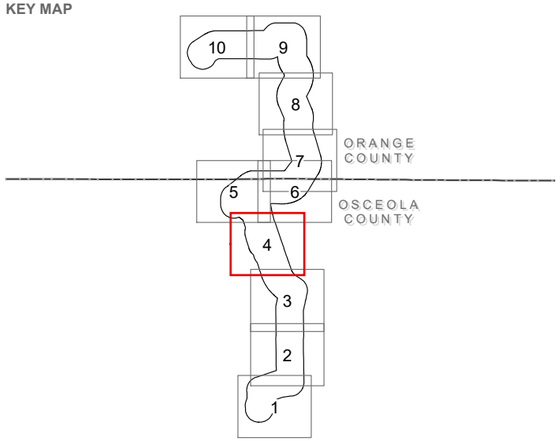

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- 100-YR FLOOD ZONE

SFWMD / SJRWMD / GOLDER WATERBODIES AND WETLANDS

WATERBODIES
- 512 - CHANNELIZED WATERWAY
- 520 - LAKES
- 523 - LAKES LARGER THAN 10 ACRES (4 HECTARES) BUT LESS THAN 100 ACRES

WETLANDS
- 617 - MIXED WETLAND HARDWOODS
- 621 - CYPRESS
- 625 - HYDRIC PINE FLATWOODS
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES
- 643 - WET PRAIRIES
- 644 - EMERGENT AQUATIC VEGETATION

0 600 1,200 2,400
Feet

REFERENCE(S)
1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. FEMA FLOOD ZONES, FEDERAL EMERGENCY MANAGEMENT AGENCY, 2019
3 SFWMD/SJRWMD WETLANDS, SFWMD 2016, SJRWMD 2014 AND GOLDER REVISED 2019
4. WATER BODY, USGS NATIONAL HYDROLOGY DATABASE, 2019

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
WATERS, WETLANDS, AND FLOODPLAINS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C012	0	2-9

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
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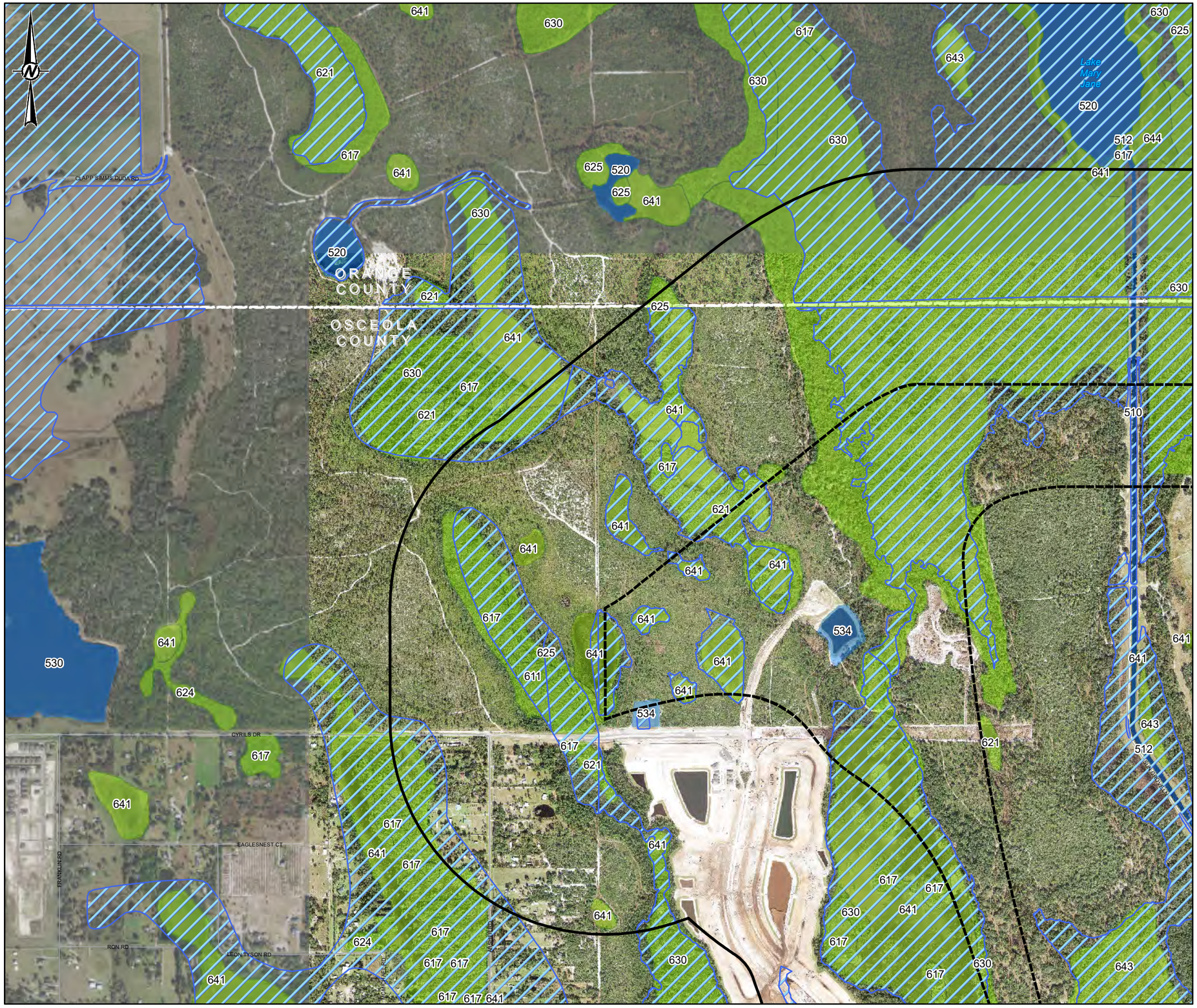
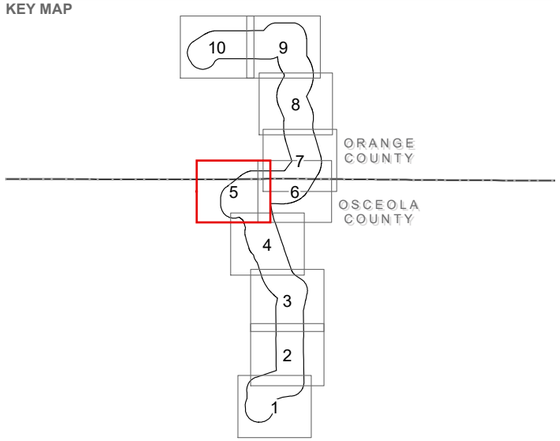


KEY MAP



LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- 100-YR FLOOD ZONE

SFWMD / SJRWMD / GOLDER WATERBODIES AND WETLANDS

- WATERBODIES
  - 510 - STREAMS AND WATERWAYS
  - 512 - CHANNELIZED WATERWAY
  - 520 - LAKES
  - 530 - RESERVOIRS
  - 534 - RESERVOIRS LESS THAN 10 ACRES (4 HECTARES) WHICH ARE DOMINANT FEATURES
- WETLANDS
  - 611 - BAY SWAMPS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 624 - CYPRESS-PINE-CABBAGE PALM
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 644 - EMERGENT AQUATIC VEGETATION

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. FEMA FLOOD ZONES, FEDERAL EMERGENCY MANAGEMENT AGENCY, 2019
3 SFWMD/SJRWMD WETLANDS, SFWMD 2016, SJRWMD 2014 AND GOLDER REVISED 2019
4. WATER BODY, USGS NATIONAL HYDROLOGY DATABASE, 2019

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
WATERS, WETLANDS, AND FLOODPLAINS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C012	0	**2-9**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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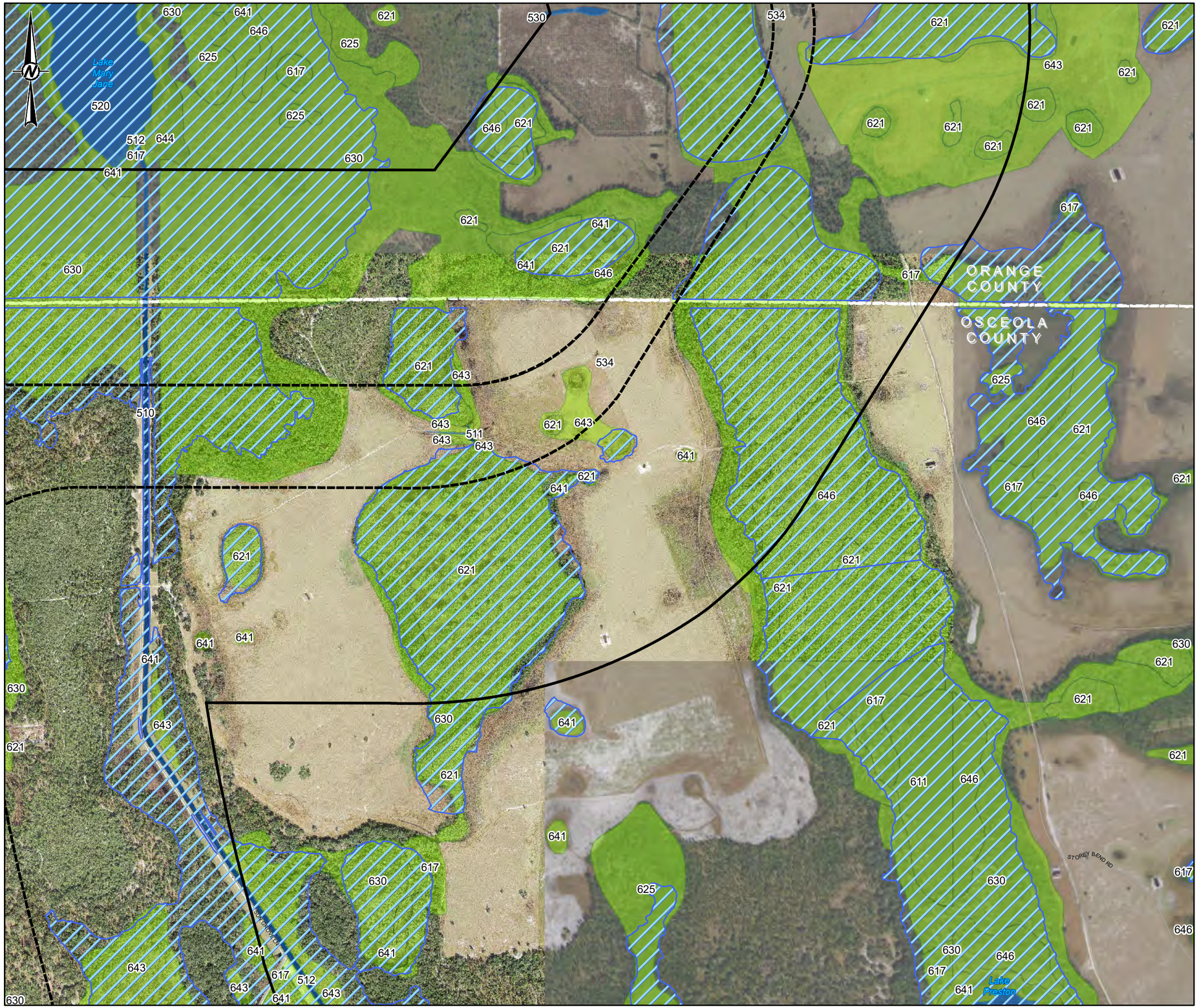

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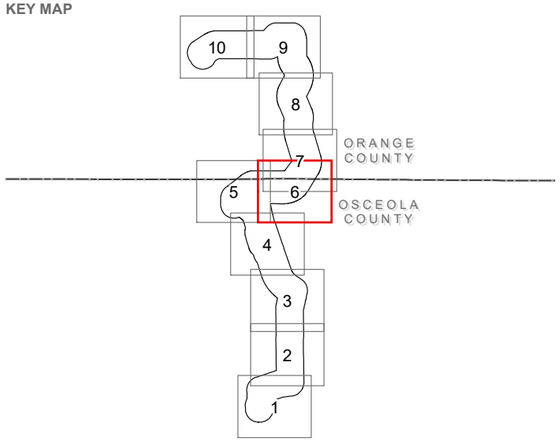

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- 100-YR FLOOD ZONE

SFWMD / SJRWMD / GOLDER WATERBODIES AND WETLANDS

- WATERBODIES
  - 510 - STREAMS AND WATERWAYS
  - 511 - DITCHES
  - 512 - CHANNELIZED WATERWAY
  - 520 - LAKES
  - 530 - RESERVOIRS
  - 534 - RESERVOIRS LESS THAN 10 ACRES (4 HECTARES) WHICH ARE DOMINANT FEATURES
- WETLANDS
  - 611 - BAY SWAMPS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 644 - EMERGENT AQUATIC VEGETATION
  - 646 - TREELESS HYDRIC SAVANNA

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. FEMA FLOOD ZONES, FEDERAL EMERGENCY MANAGEMENT AGENCY, 2019
3 SFWMD/SJRWMD WETLANDS, SFWMD 2016, SJRWMD 2014 AND GOLDER REVISED 2019
4. WATER BODY, USGS NATIONAL HYDROLOGY DATABASE, 2019

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
WATERS, WETLANDS, AND FLOODPLAINS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C012	0	**2-9**

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

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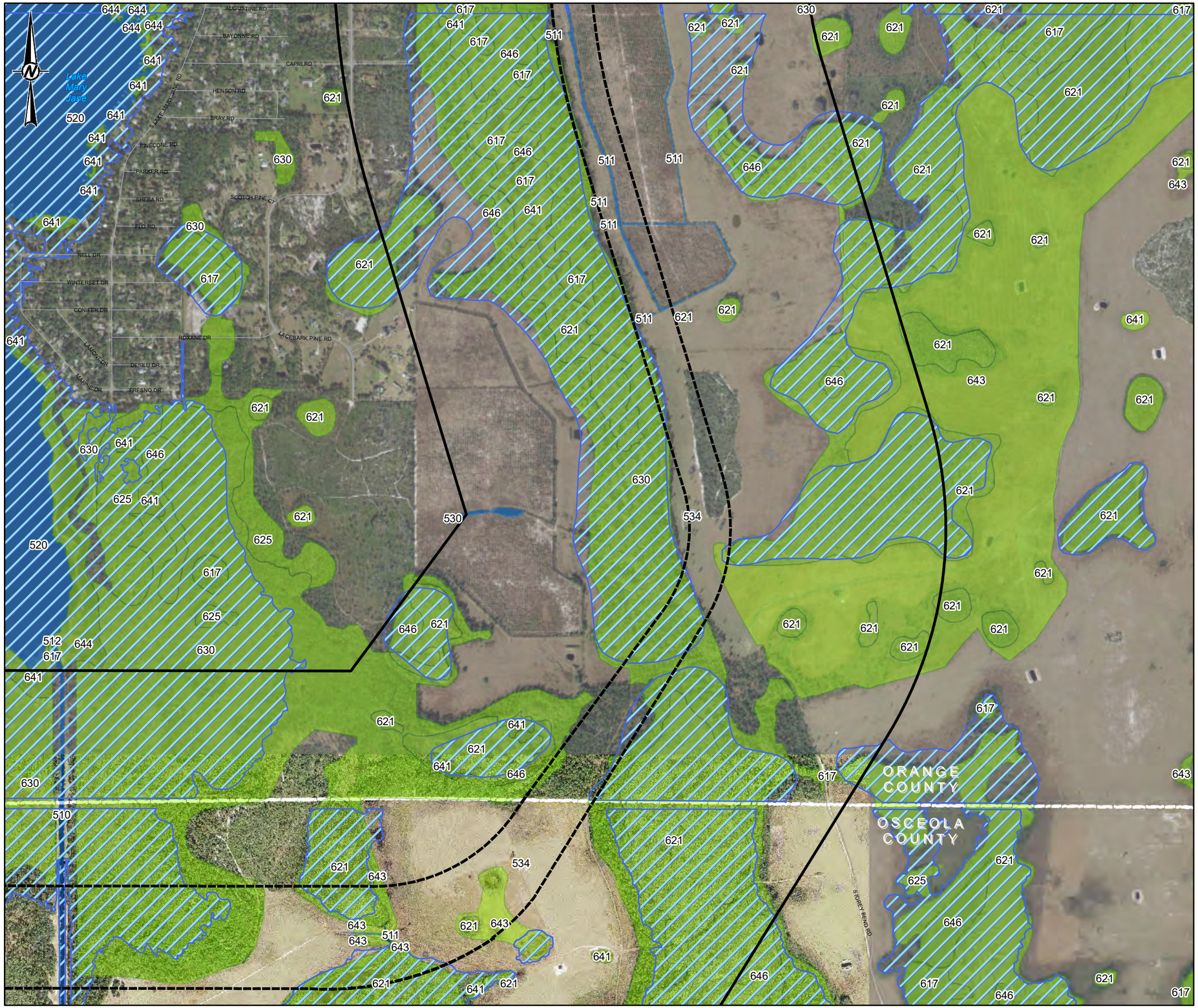

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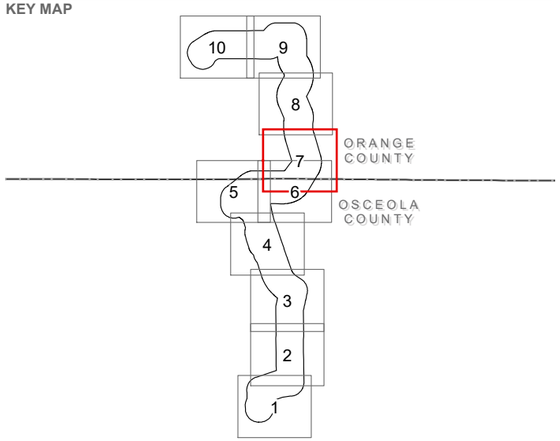

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- 100-YR FLOOD ZONE

SFWMD / SJRWMD / GOLDER WATERBODIES AND WETLANDS

- WATERBODIES
  - 510 - STREAMS AND WATERWAYS
  - 511 - DITCHES
  - 512 - CHANNELIZED WATERWAY
  - 520 - LAKES
  - 530 - RESERVOIRS
  - 534 - RESERVOIRS LESS THAN 10 ACRES (4 HECTARES) WHICH ARE DOMINANT FEATURES
- WETLANDS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 644 - EMERGENT AQUATIC VEGETATION
  - 646 - TREELESS HYDRIC SAVANNA

0 600 1,200 2,400 Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. FEMA FLOOD ZONES, FEDERAL EMERGENCY MANAGEMENT AGENCY, 2019
3 SFWMD/SJRWMD WETLANDS, SFWMD 2016, SJRWMD 2014 AND GOLDER REVISED 2019
4. WATER BODY, USGS NATIONAL HYDROLOGY DATABASE, 2019

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
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TITLE
WATERS, WETLANDS, AND FLOODPLAINS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C012	0	**2-9**

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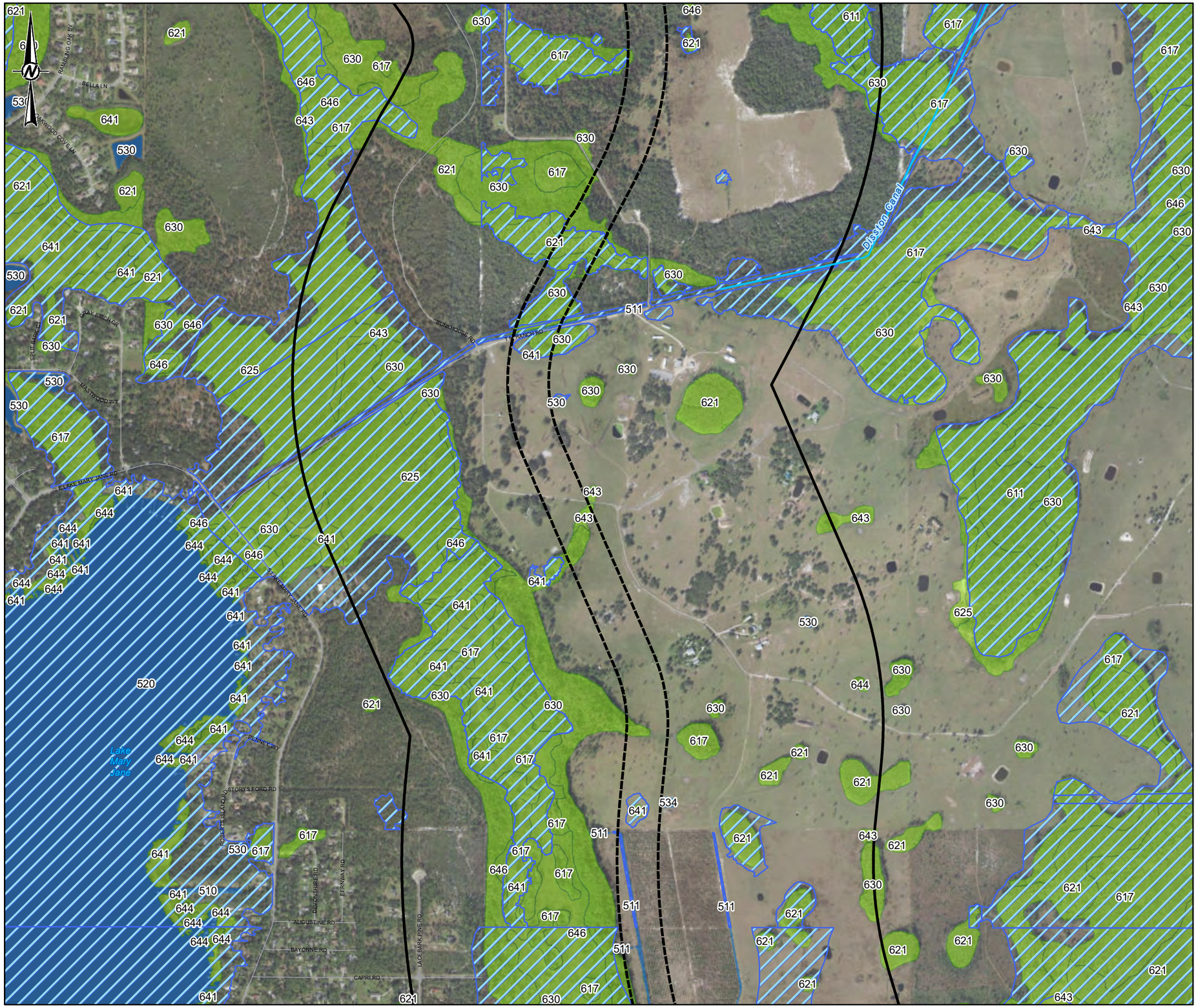

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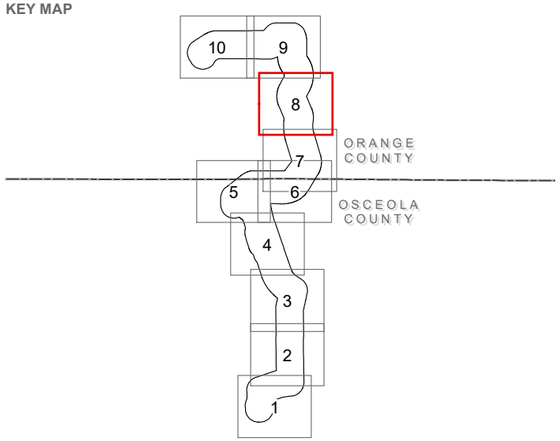

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- STREAMS
- 100-YR FLOOD ZONE

SFWMD / SJRWMD / GOLDER WATERBODIES AND WETLANDS

- WATERBODIES
  - 510 - STREAMS AND WATERWAYS
  - 511 - DITCHES
  - 520 - LAKES
  - 530 - RESERVOIRS
  - 534 - RESERVOIRS LESS THAN 10 ACRES (4 HECTARES) WHICH ARE DOMINANT FEATURES
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  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 644 - EMERGENT AQUATIC VEGETATION
  - 646 - TREELESS HYDRIC SAVANNA

0 600 1,200 2,400
Feet

REFERENCE(S)

1. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
2. FEMA FLOOD ZONES, FEDERAL EMERGENCY MANAGEMENT AGENCY, 2019
3 SFWMD/SJRWMD WETLANDS, SFWMD 2016, SJRWMD 2014 AND GOLDER REVISED 2019
4. WATER BODY, USGS NATIONAL HYDROLOGY DATABASE, 2019

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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CONSULTANT
OUC The Reliable One

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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C012	0	**2-9**

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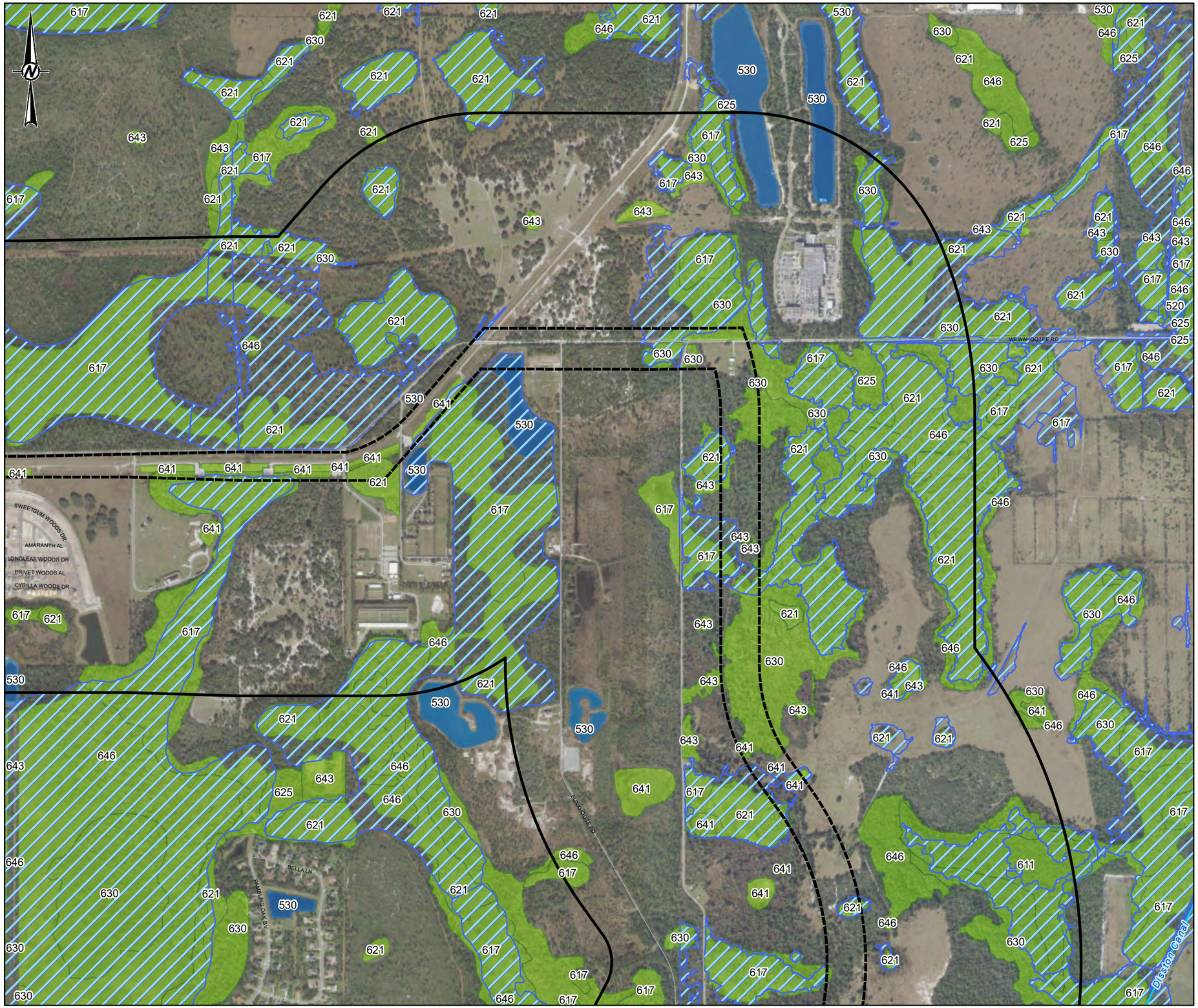

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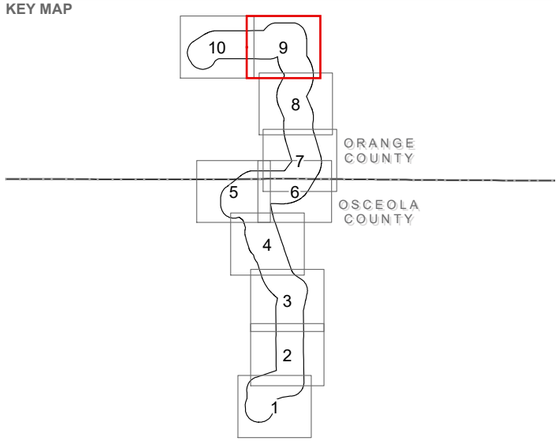

LEGEND

- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- STREAMS
- 100-YR FLOOD ZONE

SFWMD / SJRWMD / GOLDER WATERBODIES AND WETLANDS

- WATERBODIES
  - 520 - LAKES
  - 530 - RESERVOIRS
- WETLANDS
  - 611 - BAY SWAMPS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 646 - TREELESS HYDRIC SAVANNA

0 600 1,200 2,400
Feet

REFERENCE(S)

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2. FEMA FLOOD ZONES, FEDERAL EMERGENCY MANAGEMENT AGENCY, 2019
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4. WATER BODY, USGS NATIONAL HYDROLOGY DATABASE, 2019

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
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CONSULTANT
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C012	0	2-9

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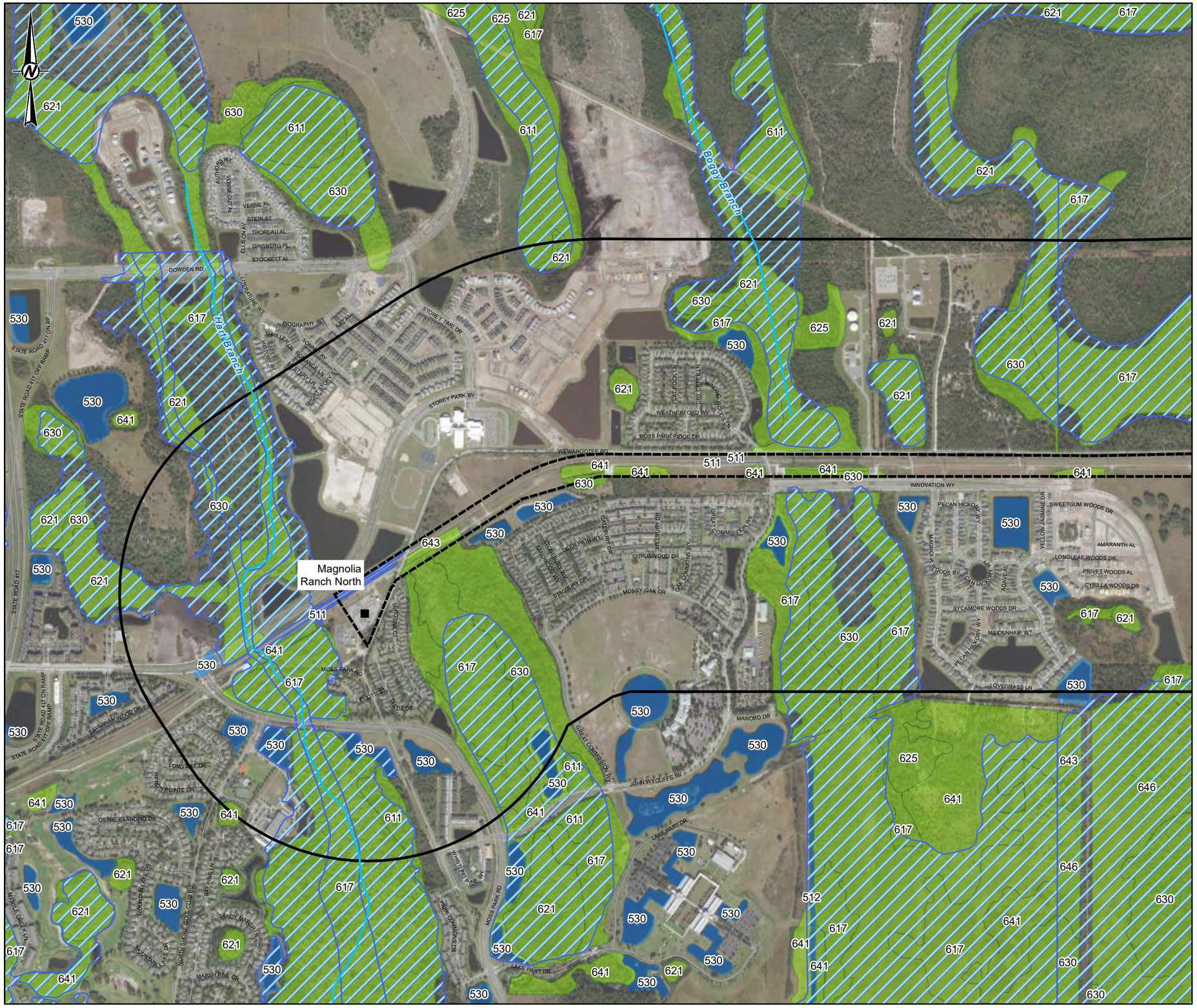

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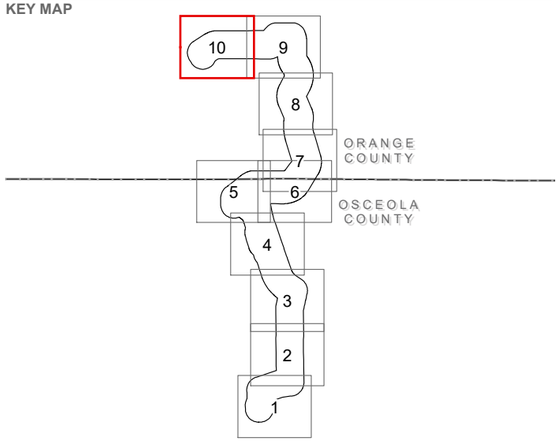

LEGEND

- EXISTING SUBSTATIONS
- PROPOSED CORRIDOR
- 1/2 MILE CORRIDOR BUFFER
- STREAMS
- 100-YR FLOOD ZONE

SFWMD / SJRWMD / GOLDER WATERBODIES AND WETLANDS

- WATERBODIES
  - 511 - DITCHES
  - 512 - CHANNELIZED WATERWAY
  - 530 - RESERVOIRS
- WETLANDS
  - 611 - BAY SWAMPS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
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  - 643 - WET PRAIRIES
  - 646 - TREELESS HYDRIC SAVANNA

0 600 1,200 2,400
Feet

REFERENCE(S)

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3 SFWMD/SJRWMD WETLANDS, SFWMD 2016, SJRWMD 2014 AND GOLDER REVISED 2019
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CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C012	0	2-9

PATH: G:\Projects\OUC\SlCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\2_Permitting\02_PRODUCTION\MXD\19115515_C012_Wetlands_Floodplain.mxd

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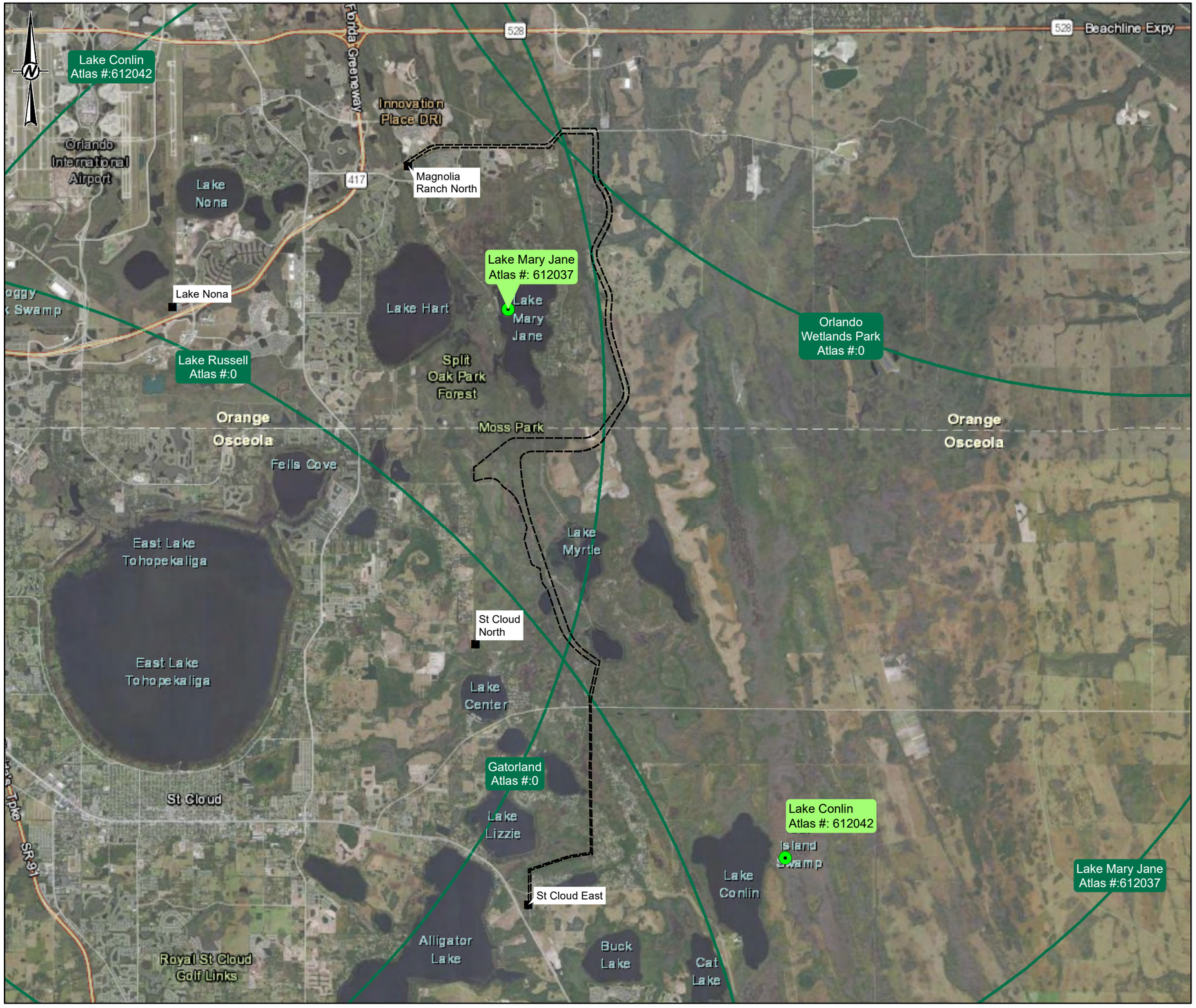

LEGEND

- EXISTING SUBSTATIONS
- PROPOSED CORRIDOR
- WOOD STORK COLONY ACTIVE IN FL 2009-
- WOOD STORK FORAGING AREA ACTIVE 2009 - 2018 (15 - 18.6 MILE BUFFER OF COLONY)

0 0.875 1.75 3.5
MILES

REFERENCE(S)

1. EXISTING TRANSMISSION, EXISTING SUBSTATIONS, OAK RIDGE NATIONAL LABORATORY, 2019.
2. PROPOSED CORRIDOR, HALF MILE BUFFER, GOLDER, 2020
3. CONSERVATION LAND, FLORIDA MANAGED AREAS VIA FLORIDA NATURAL AREA INVENTORY, 2019.
4. NATIONAL WILDLIFE REFUGE, USFWS, 2017.
5. AIRPORTS, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. COUNTY BOUNDARY, FLORIDA GEOGRAPHIC DATA LIBRARY, 2011.
7. CITY BOUNDARY, U.S. CENSUS BUREAU, 2019.
8. SERVICE LAYER CREDITS: SOURCE: ESRI, MAXAR, GEOEYE, EARTHSTAR GEOGRAPHICS, CNES/AIRBUS DS, USDA, USGS, AEROGRID, IGN, AND THE GIS USER COMMUNITY
ESRI, HERE, GARMIN, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
WOOD STORK COLONIES AND FORAGING AREAS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-05-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C013	0	2-10

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3.0 EFFECTS OF RIGHT-OF-WAY PREPARATION AND TRANSMISSION LINE CONSTRUCTION

OUC typically obtains an easement for the construction, operation, and maintenance of its transmission line, as well as the rights of ingress and egress to that line, from the underlying landowner(s) who retains the fee-simple interest in the property. The construction of the transmission line then proceeds in several phases, which typically consist of ROW clearing, followed by the construction of the access road and structure pads, assembly and erection of the transmission structures, installation of the insulators and conductors, and ROW restoration. The construction phases generally will be performed sequentially along the ROW and, as a result, the activities during the various stages in any one area tend to be intermittent and short term. All construction activities on the Project will conform to applicable federal, state, and local regulations. Construction crews will be equipped with spill containment and absorption materials, which will be deployed in the event of an inadvertent release of fluids from any construction equipment or vehicle.

3.1 Construction Techniques

The ROW preparation and transmission line construction will be conducted in a manner to minimize potential effects on human populations, waterbodies, archaeological and historic sites, vegetation, and wildlife to the greatest extent practicable. The following sections describe the construction techniques proposed for the Project.

3.1.1 Right-of-Way Preparation

The approximately 21-mile proposed corridor is co-located with existing transmission line ROWs for approximately 38% of its length. It is anticipated that little or no ROW clearing will be required in some of the areas where the proposed transmission line will be co-located with OUC's existing transmission lines. It also is anticipated that some ROW clearing will be required where the transmission line is co-located with existing OUC electrical transmission infrastructure but the existing ROW is not sufficiently cleared for the placement of the new SCE to MRN transmission line. Clearing will be required in areas where the new ROW will be adjacent to the proposed Sunbridge Parkway, Cyrils Bypass Road, and Northeast Connector Expressway. In all cases, clearing will be performed in accordance with the descriptions provided below. The scope and extent of the clearing will be determined by existing conditions, environmental constraints, and line design requirements.

3.1.1.1 Clearing in Upland Areas

Trees and shrubs in the ROW will be cleared if their mature height could exceed 15 ft. Minimal amounts of additional clearing and/or mowing may be required for the installation of the structure pads and access roads in the ROW. Conflict timber outside the ROW will be removed if it poses a risk of falling into the transmission line conductors, and OUC has obtained easement rights or the landowner's prior permission to remove such timber.

The machinery used for ROW clearing will depend on the density of trees to be cut and the restrictions on clearing in wetlands. Typical equipment will include bulldozers, shearing machinery, and specialized mowing equipment, as well as chainsaws.

3.1.1.2 Clearing in Wetland Areas

Vegetation in wetland areas will be cleared using restrictive clearing techniques. Restrictive wetland clearing will be done by hand, usually with chainsaws, or with low-ground-pressure shear or rotary machines that reduce soil compaction and damage to vegetation. These methods may be used alone or in combination, as may be necessary for specific sites. Restrictive clearing will consist of the cutting and removal of all trees and vegetation with a mature height greater than 15 ft and leaving all the other vegetation in the ROW outside of the access road and structure pad areas. Trees will be cut as low as possible or to the existing water level. Stumps may be left in place to preserve the root mat and treated with an approved herbicide to prevent re-growth. Cut trees and debris will be removed from the ROW and disposed of in upland areas or off-site locations, depending on regulatory agency and landowner restrictions. The cut materials will be removed from wetland areas by utilizing either low-ground-pressure equipment or temporary construction mats. Care will be taken to minimize rutting and disturbance of the root mat.

3.1.2 Access Road and Structure Pad Construction

In areas where existing roads and pads are insufficient, improved access roads and new structure pads may be required. The details of this work will be presented to the appropriate regulatory agencies in a post-certification submittal, which will be reviewed in accordance with the TLSA conditions of certification. An overview of the typical construction practices for access roads and structure pads is provided below. Figures 1-23 through 1-26 provide typical cross sections for the access road and structure pads.

The construction of access roads and pads in uplands will be conducted by first completing the clearing and grubbing of the road footprint and then placing, spreading, shaping, and compacting hauled clean fill or soil from both sides of the road surface to the design elevation using bulldozers. OUC may also consider the construction of at-grade access roads where new access roads are required in either uplands or wetlands.

Where construction of access roads and structure pads is required in wetlands, OUC will use best management practices (BMPs) for erosion control, such as silt fencing, staked turbidity barriers, or floating turbidity screens, to minimize any secondary impacts to wetlands and waterbodies and meet state water quality standards for turbidity. Construction in wetlands will begin with the installation of silt fences or stacked straw bales along the perimeter of the work area within the ROW, followed by selective clearing of the ROW to remove trees and other vegetation that could exceed 15 ft in height at maturity. Additional BMPs will be installed along the perimeter of the access road or pad construction areas prior to final clearing and grubbing of these areas. Where applicable, a geotextile liner may be

laid and staked in place following final clearing and prior to road or structure pad construction. The final grade of the road and/or pad will generally be at least 12 inches above the seasonal high water line elevation. Where applicable, the specific locations and design of the access roads or pads within wetlands will be part of the final design of the transmission line, which will be submitted to the regulatory agencies as a post-certification submittal in compliance with the conditions of certification. The discharge of stormwater into waters of the State during construction will be addressed through compliance with Section 62-621.300(4), F.A.C. (Generic Permit for Stormwater Discharge from Large and Small Construction Activities).

Where necessary, in conjunction with the construction of new roads, culverts will be added under the access roads in wetlands to maintain flow. A minimum of 2 ft of cover soil will be installed over any new culverts. The culvert inverts will be placed so that the invert elevation is the same as the wetland floor elevation. A combination of culverts measuring 18 inches, 24 inches, and 36 inches in diameter typically will be used, depending on site-specific hydrology. Culverts and access roads will be designed to equalize the water volume created from a small rainfall event. The culvert's intended use is to maintain normal pool equilibrium and avoid creating a retention or detention area. During a major-intensity rainstorm (i.e., greater than a 25-year storm event), water may flow over the access road. The access road will function as an emergency spillway, thus equalizing the wetland pool.

3.1.3 Assembly and Erection of Structures

Transmission line structures are generally delivered to the site using semi-trucks with open trailers and they are assembled on-site, as close as possible to the structure location. To install the transmission line structures, a digger truck will auger a hole approximately 20 to 40 ft deep and then the single-pole engineered structures will be embedded directly into the hole and backfilled with crushed rock or concrete. Taller poles, site specific geography, or subsurface conditions may require increased setting depths. Multi-piece structures can be used if significantly taller structures are required. During the assembly process with multi-piece structures, the poles will be maneuvered into place using crane equipment to facilitate connections. Cribbing will be used to maintain a level working surface and prevent excess stress on components and connections. Once assembled, the structures will be ready for final placement via cranes, which will pick up the structure. Tag lines may be used to facilitate the proper orientation and control of the structure until placed in the hole.

Although it is expected that most structures will be directly embedded into the ground, specialized crews and equipment will be utilized where drilled pier or caisson foundation construction is required. Holes will be bored and anchor bolt cages placed. The holes will then be filled with concrete and allowed to cure. This activity typically takes three to five days per structure. Structure baseplates will be bolted to the foundation. The crew will then erect the remainder of the structure on the foundation with a bucket truck and crane.

3.1.4 Installation of Insulators and Conductors

The installation of the insulators and conductors follows the erection of the transmission structures. Installing conductors between structures requires stringing a lead line between each structure's stringing block to form a continuous connection between end points of a conductor stringing pull. The lead line is used to pull the conductors into position. The conductor is then tensioned to design specifications, transferred to the support clamp at the structure, and then clipped into its final position. This operation is repeated for each of the conductors and overhead ground wires (OHGW) on the transmission line. Bucket trucks, wire-pulling equipment, wire reels, trailers, tensioners, and other support vehicles are typical equipment used in conductor and OHGW installation operations.

3.1.5 Right-of-Way Restoration

When the construction of the transmission line is completed, any remaining construction debris will be removed and OUC will employ various methods to restore the ROW where necessary. For example, newly disturbed areas on steep slopes may be seeded and/or mulched to control erosion (e.g., at canal or ditch crossings). Erosion controls, such as silt fence and turbidity screens, will remain in place until disturbed areas have been stabilized and vegetation has become sufficiently established.

3.2 Environmental Resource Permit

Once the design of the Project is finalized, the detailed design information typically submitted in an Environmental Resource Permit (ERP) application will be provided to the reviewing agencies in a post-certification submittal, pursuant to the conditions of certification and Rule 62-17.191, F.A.C.

Consistent with the ERP application requirements, the detailed design information will include a quantification of the canopy clearing within forested wetlands, the dredge and fill impacts associated with the installation of the transmission structure pads and access roads, the management of surface waters during construction, and the need (if any) for floodplain compensation. The post-certification submittal also will include a mitigation proposal to compensate for the loss of wetland functions, which will be prepared in accordance with the Uniform Mitigation Assessment Method established by Rule 62-345, F.A.C. It is anticipated that all unavoidable wetland impacts will be compensated through the purchase of mitigation credits from the TM Econ Mitigation Bank.

A preliminary conceptual layout of the Project and associated wetland impacts is provided in Figure 3-1. Based on the conceptual design and approximate UMAM scores, it is estimated that the Project's wetland impacts will include approximately 13.12 acres of fill and 24.90 acres of conversion, resulting in 17.18 credits of functional loss, as summarized below. As noted above, the final transmission line design, wetland impact evaluation, and mitigation assessment will be provided with the post-certification ERP submittal.

Wetland Type (FLUCFCS)	Approximate UMAM Score		Conceptual Wetland Fill - Access Roads and Structure Pads (acres)	Conceptual Canopy Clearing/ Conversion to Herbaceous Wetland (acres)	Functional Loss (UMAM Credits)
	Existing	Post-clearing			
Ditches/Surface Waters (511/523)	0.43	N/A	0.36		0.15
Forested Wetlands (617, 621, 630)	0.77	0.47	11.21	24.90	16.10*
Herbaceous Wetlands (641, 643)	0.60	N/A	1.55		0.93
TOTAL			**13.12**	**24.90**	**17.18**

* Functional loss associated with conversion = 24.90 ac x 0.30 = 7.47
Functional loss associated with wetland fill = 11.21 ac x 0.77 = 8.63

3.3 Solid Wastes

Solid waste generated from preparation of the ROW and transmission line construction typically consists of cleared vegetation and construction-related debris. The solid waste generated by the Project will be collected and removed for disposal or beneficial reuse in compliance with state and local regulations. If any on-site chipping or burning is proposed, it also will be performed in compliance with state and local regulations. The quantity of solid waste generated by the Project will largely depend upon the site-specific characteristics of the area being cleared.

3.4 Changes to Vegetation, Wildlife, and Aquatic Life

Since the proposed corridor is co-located with existing transmission line ROWs for 38% of its length and co-located along existing and proposed public roadways and canals for the remainder, no significant changes to vegetation, wildlife, and aquatic life are anticipated as a result of the construction of the Project.

Impacts to vegetation include selective clearing within the ROW, removal of woody vegetation with a mature height greater than 15 ft, and limited areas of structure pad and access road construction, where necessary. Canopy clearing will be required within areas of new ROW. Supplemental clearing of the canopy may be required in areas of existing ROW where needed to accommodate the new transmission line. Canopy clearing within forested wetlands will convert these areas to herbaceous wetland systems. The proposed ROW preparation and construction techniques were described previously in Section 3.1.

Potential impacts to wildlife will be minimized because the Project will be co-located with existing transmission line ROWs and existing and proposed road ROWs to the greatest extent practicable. The proposed corridor does not cross any federally designated critical habitat areas for any listed species. No direct impacts are anticipated to highly mobile species of wildlife (birds, mammals) during ROW clearing and construction. However, some individuals of smaller, less-mobile species of wildlife, such as reptiles or amphibians, may be lost during ROW clearing. No significant adverse impact is anticipated with regard to the local or regional population of any wildlife species, including game species, species of special concern or commercial importance, or listed species.

The proposed corridor is within the CFA of five wood stork colonies - Gatorland, Lake Mary Jane, Orlando Wetlands Park, Lake Conlin, and Lake Russell, as discussed in Section 2.4.3.1 and illustrated in Figure 2-10. As described in the USFWS and USACE *Wood Stork Key for Central and North Peninsular Florida*, impacts to ≥ 0.5 acre of wetlands that provide suitable foraging habitat within a CFA must be compensated by providing mitigation within the service area of a USFWS-approved wetland mitigation bank or wood stork conservation bank preferably within the CFA, or through wetland enhancement, restoration, or creation that provides an amount of habitat and foraging function equivalent to that of the impacted wetlands. Upon completion of the detailed design for OUC's proposed transmission line, any impacts to wetlands providing suitable foraging habitat for wood storks within the CFA will be quantified, and the appropriate type and amount of compensatory mitigation will be provided prior to construction, in accordance with the USFWS and USACE requirements. Mitigation provided to offset wetland functional loss may additionally compensate for the loss of wood stork foraging habitat, if the appropriate hydroperiod and vegetative conditions are enhanced, restored, or created at the mitigation site. In this case, the proposed transmission line is within the service area of an agency-approved wetland mitigation bank, the TM Econ Mitigation Bank. The purchase of mitigation credits from this bank will be evaluated, in consultation with the USFWS, as a means for providing the necessary wood stork foraging habitat.

Any gopher tortoise burrows within 25 ft of construction activities must be excavated and the captured tortoises must be relocated to avoid impact, in accordance with the FWC gopher tortoise permitting guidelines. Pre-clearing surveys for gopher tortoises and other listed species will be conducted in compliance with FWC requirements and the conditions of certification before the commencement of construction. If any gopher tortoise burrows are located within the Project's ROW, OUC will provide the appropriate agencies with a post-certification submittal in compliance with the conditions of certification. The submittal will contain the information that the FWC normally requires in an application for a permit to excavate gopher tortoise burrows and relocate captured individuals. Any captured gopher tortoises will be relocated within undisturbed areas of the Project's ROW or they will be taken to an FWC-approved recipient site prior to construction.

3.5 Impact on Human Populations

Any inconveniences experienced by residents near the proposed transmission line will be primarily confined to noise from machinery, which will be used intermittently at various locations along the ROW during construction, and possibly minor traffic disruptions due to the use of heavy equipment along roads and the delivery of materials. The construction of a transmission line involves the completion of a series of tasks, which generally are accomplished in sequence by different specialized crews. Construction tasks include clearing the ROW, constructing the structure pads and access roads, preparing the foundations, assembling and erecting the support structures, stringing the conductors, and then restoring the ROW. Construction of the entire Project is expected to take up to 24 months. Crew sizes will vary, depending on the task, and usually range in size from 10 to 11 members. Although several crews may work simultaneously along the length of a transmission line, the duration of a crew's

activities in any one area will be quite short. The construction and associated noise-producing activities will be intermittent and temporary. To minimize the potential for traffic disruptions, the FDOT guidelines incorporating Maintenance of Traffic Plans will be followed for any construction that will be paralleling public roads.

Once a section of structures is erected, the process of stringing (installing) the conductors begins. Various pieces of wire-pulling equipment and support vehicles will be used during the installation of the conductors. These activities will require approximately three to five days at any one location.

The final phase of construction involves cleanup and restoration of those areas that were affected by the transmission line construction.

Construction activities will typically take place during daylight hours. Some activities may be limited to times when there are transmission line outages. Special circumstances could require nighttime construction activities. Any nighttime construction activities will be coordinated with appropriate agencies and governmental representatives, as necessary.

In general, because of the temporary nature of the construction activities and the relatively short duration of the construction process at any given location, the potential construction impacts experienced by the public while residing or working adjacent to the transmission line corridor are anticipated to be minor.

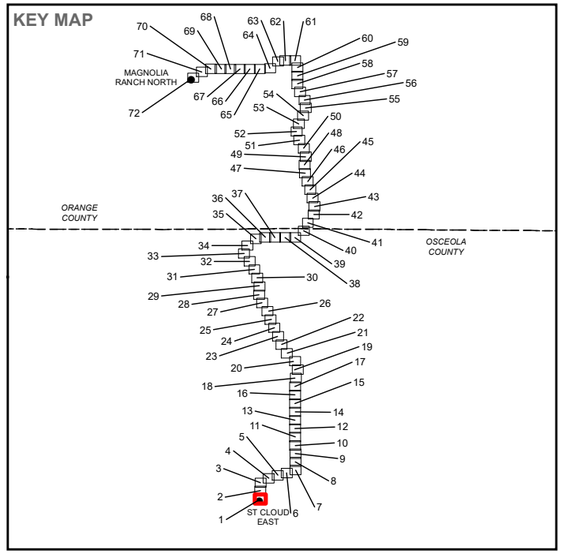
3.6 Impact on Regional Scenic, Cultural, and Natural Landmarks

As discussed in Section 2.4.1, the corridor does not cross any regional scenic, cultural, or natural landmarks, except to the extent that the Project will be co-located with an existing 69-kV transmission line for approximately 3.5 miles through the Lake Lizzie Conservation Area. No significant adverse impacts to regional scenic, cultural, and natural landmarks are anticipated as a result of the construction of the proposed transmission line between the St. Cloud East Substation and Magnolia Ranch North Substation.

3.7 Impact on Archaeological and Historic Sites

Following the certification of the proposed corridor and the selection of the ROW, a cultural resource assessment survey (CRAS) will be conducted in compliance with the requirements of Chapter 267, F.S., and Chapter 1A-46 (Archaeological and Historical Report Standards and Guidelines), F.A.C. The results of this CRAS will be documented in a report and submitted to the DHR. If significant resources are identified, OUC will avoid these resources, if feasible. If avoidance is not feasible, then OUC will coordinate with the DHR to develop a strategy to minimize or mitigate impacts.

If any cultural resource finds are discovered during construction, construction activities will be immediately halted in the vicinity and the DHR will be notified. A determination of the significance of the find will be conducted, as appropriate, and OUC will coordinate with DHR to evaluate mitigative measures necessary to protect the area from adverse impacts.



LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 530 - RESERVOIRS

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
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TITLE
CONCEPTUAL LAYOUT AND WETLAND IMPACTS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
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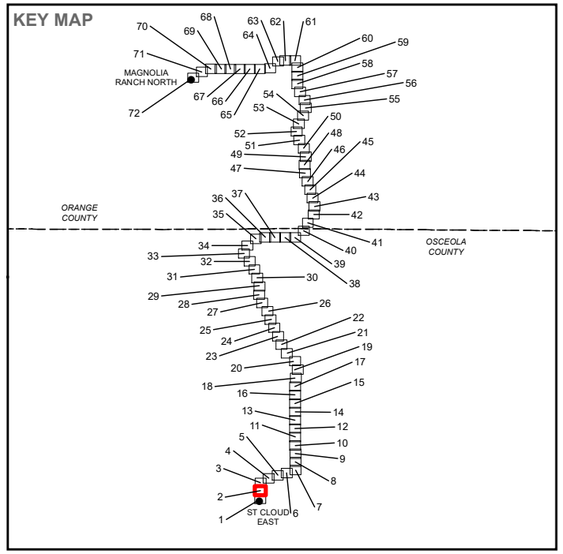

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 530 - RESERVOIRS
- 630 - WETLAND FORESTED MIXED

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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PROJECT NO.	CONTROL	REV.	FIGURE
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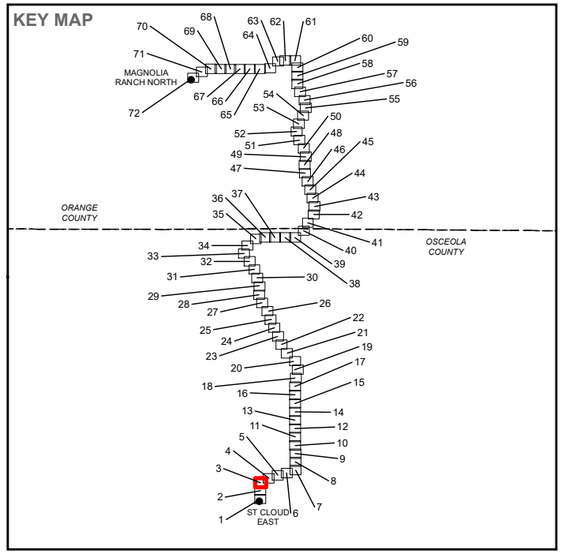

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 511 - DITCHES
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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PROJECT NO.	CONTROL	REV.	FIGURE
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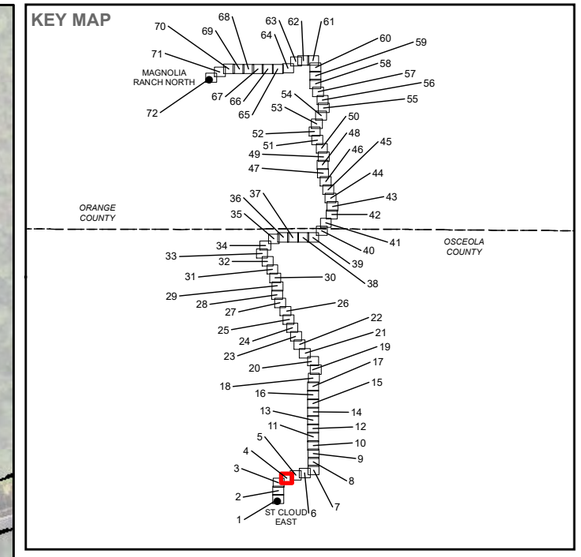

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
  - 511 - DITCHES
  - 520 - LAKES
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
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PROJECT NO.	CONTROL	REV.	FIGURE
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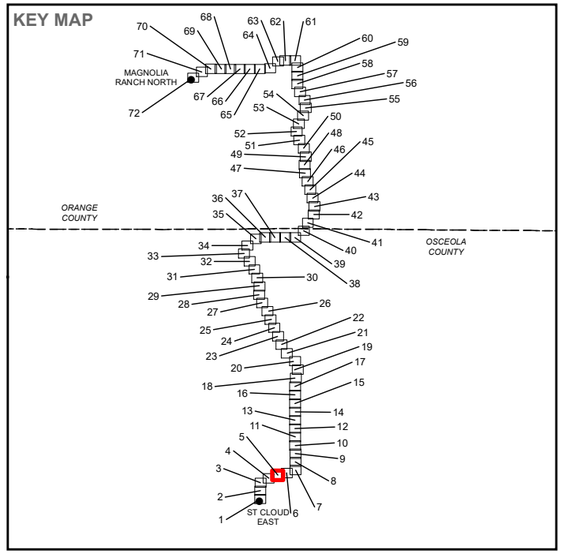
KEY MAP



LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 630 - WETLAND FORESTED MIXED

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
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4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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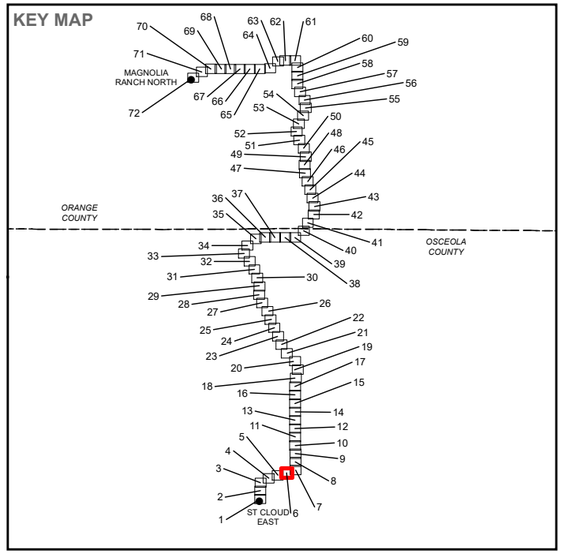

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
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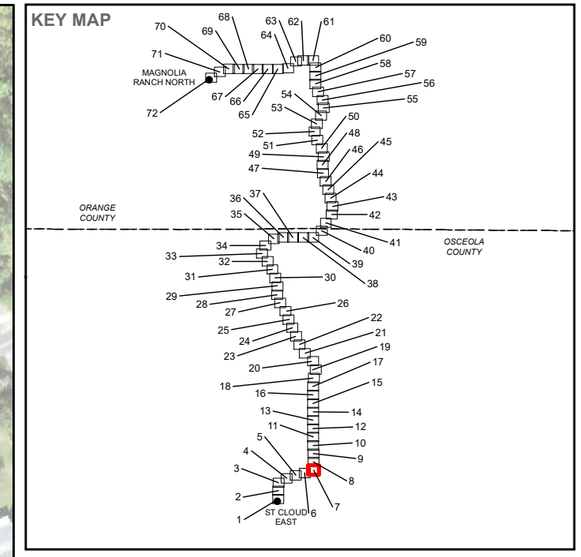

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
  - 511 - DITCHES
  - 530 - RESERVOIRS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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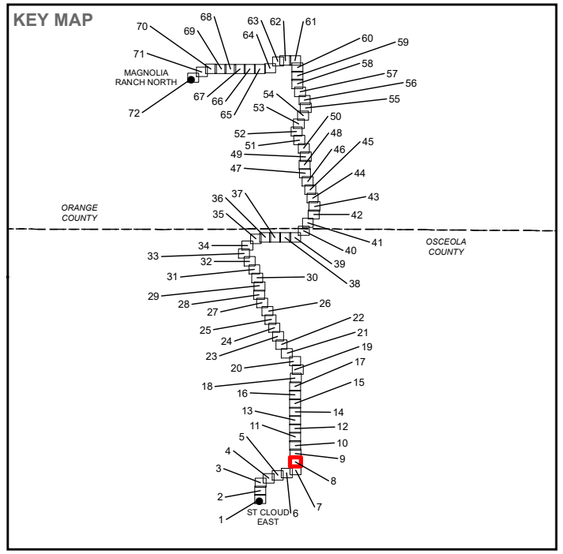

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 511 - DITCHES
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES
- 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
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ORLANDO UTILITIES COMMISSION

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PROJECT NO.	CONTROL	REV.	FIGURE
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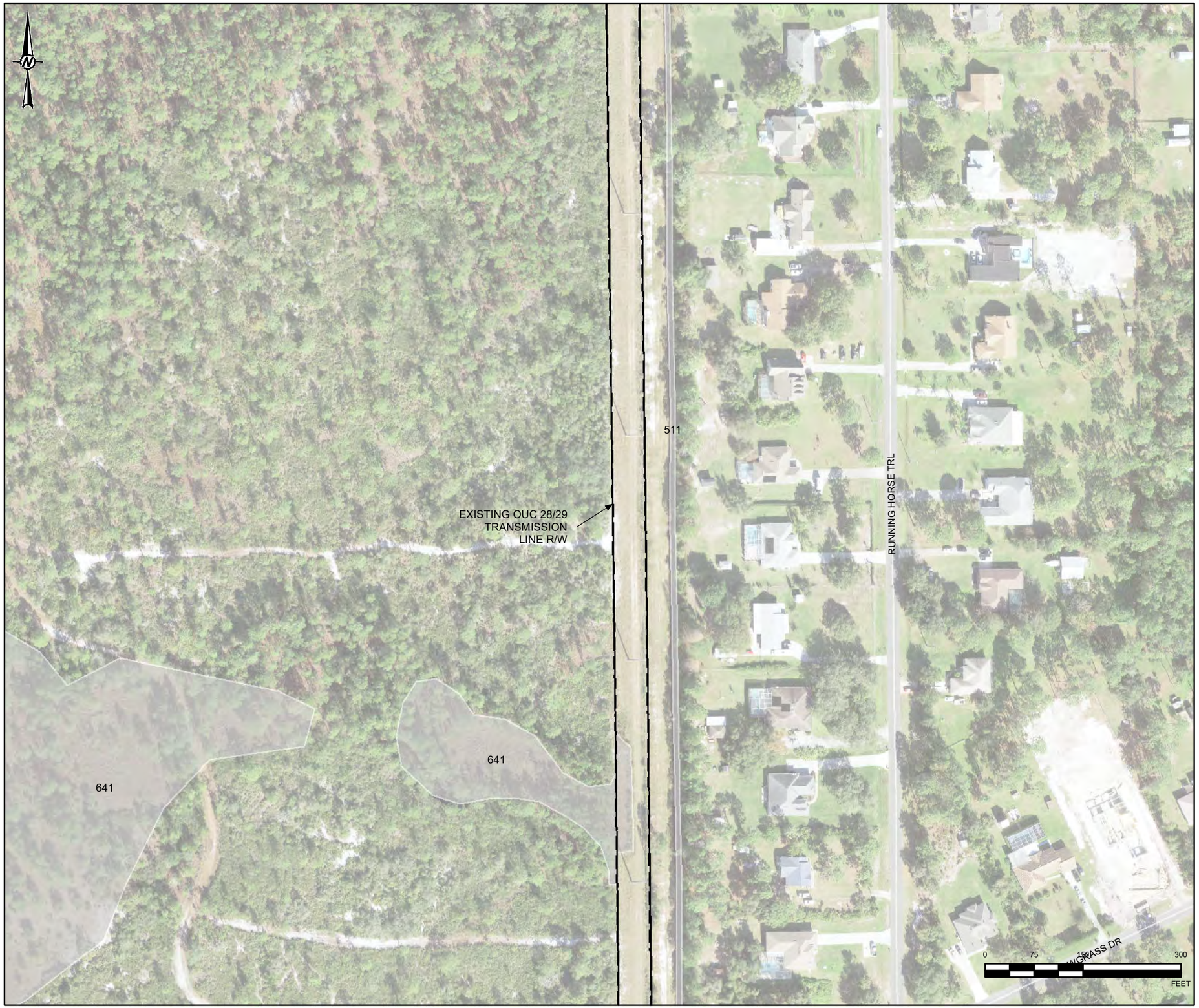

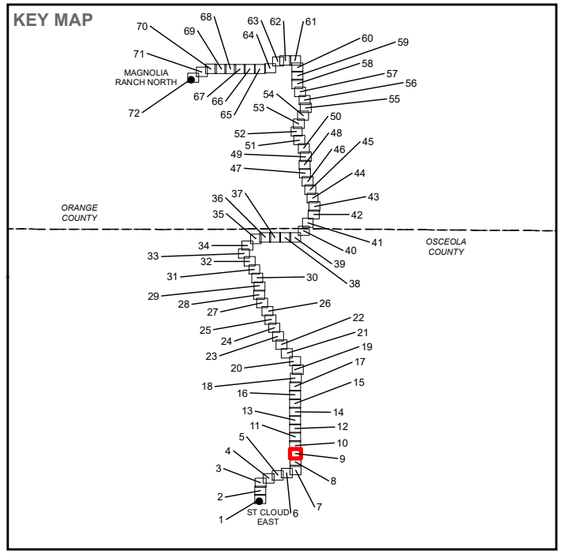

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 511 - DITCHES
- 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
CONCEPTUAL LAYOUT AND WETLAND IMPACTS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

PATH: G:\Projects\OUC\SCCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd

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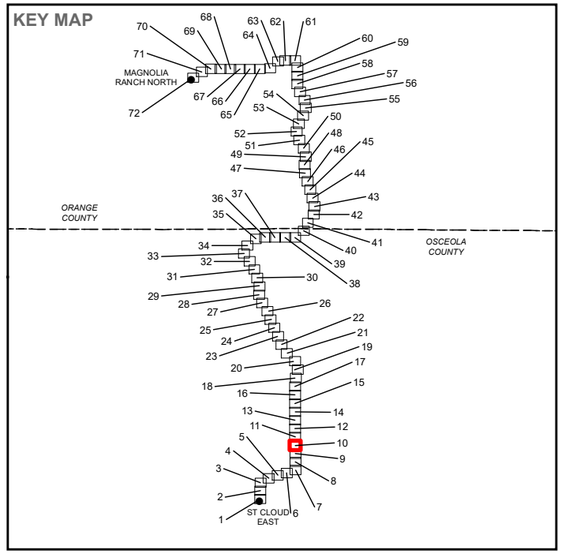

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
  - 511 - DITCHES
  - 611 - BAY SWAMPS
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
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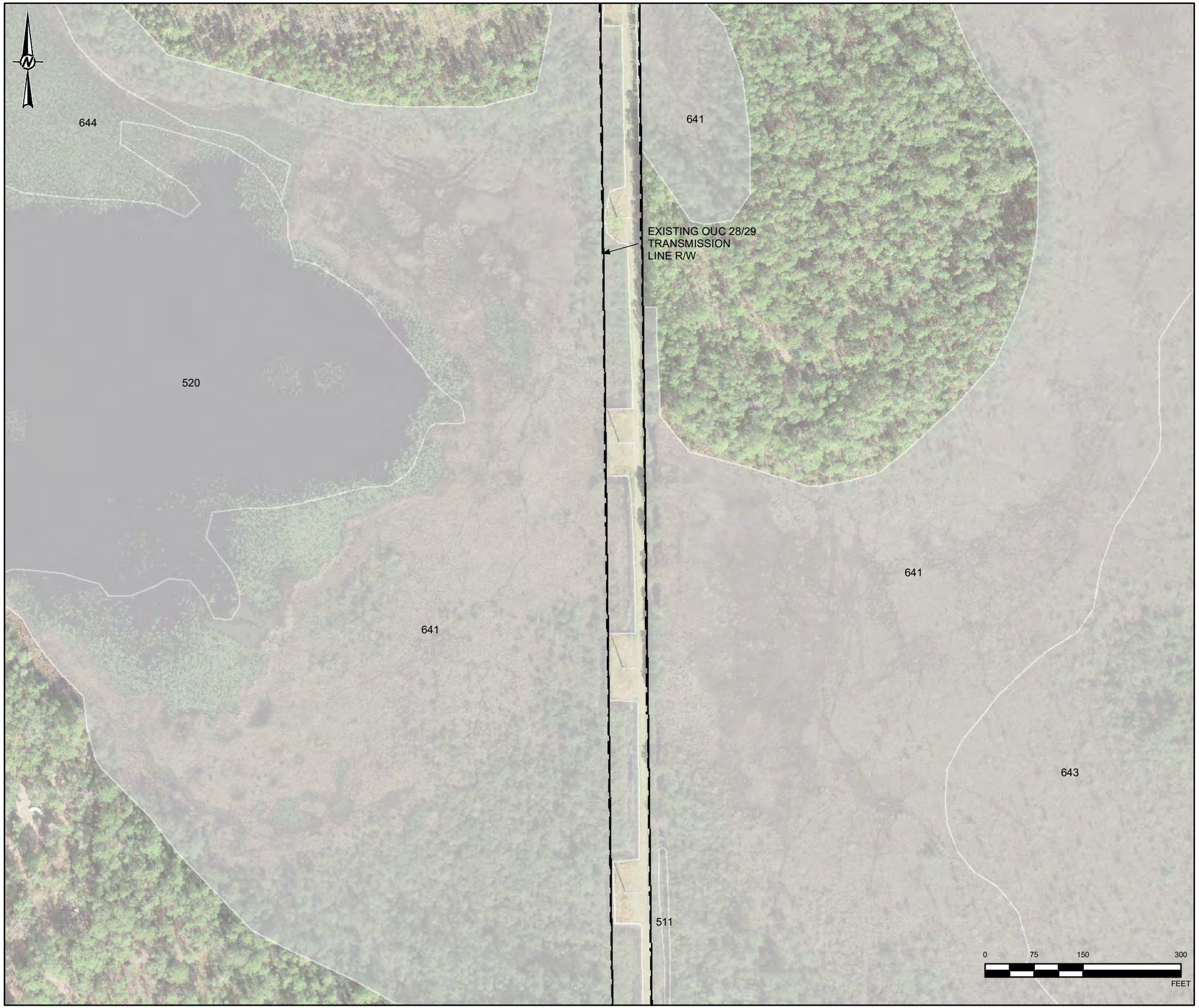

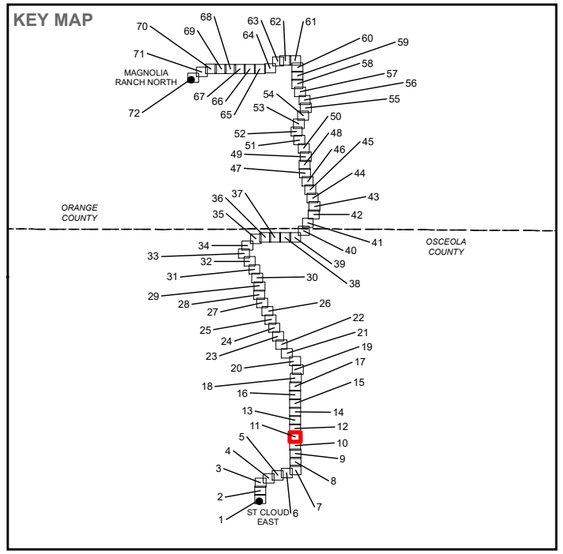

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
  - 511 - DITCHES
  - 520 - LAKES
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES
  - 644 - EMERGENT AQUATIC VEGETATION

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
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CLIENT
ORLANDO UTILITIES COMMISSION

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PROJECT NO.	CONTROL	REV.	FIGURE
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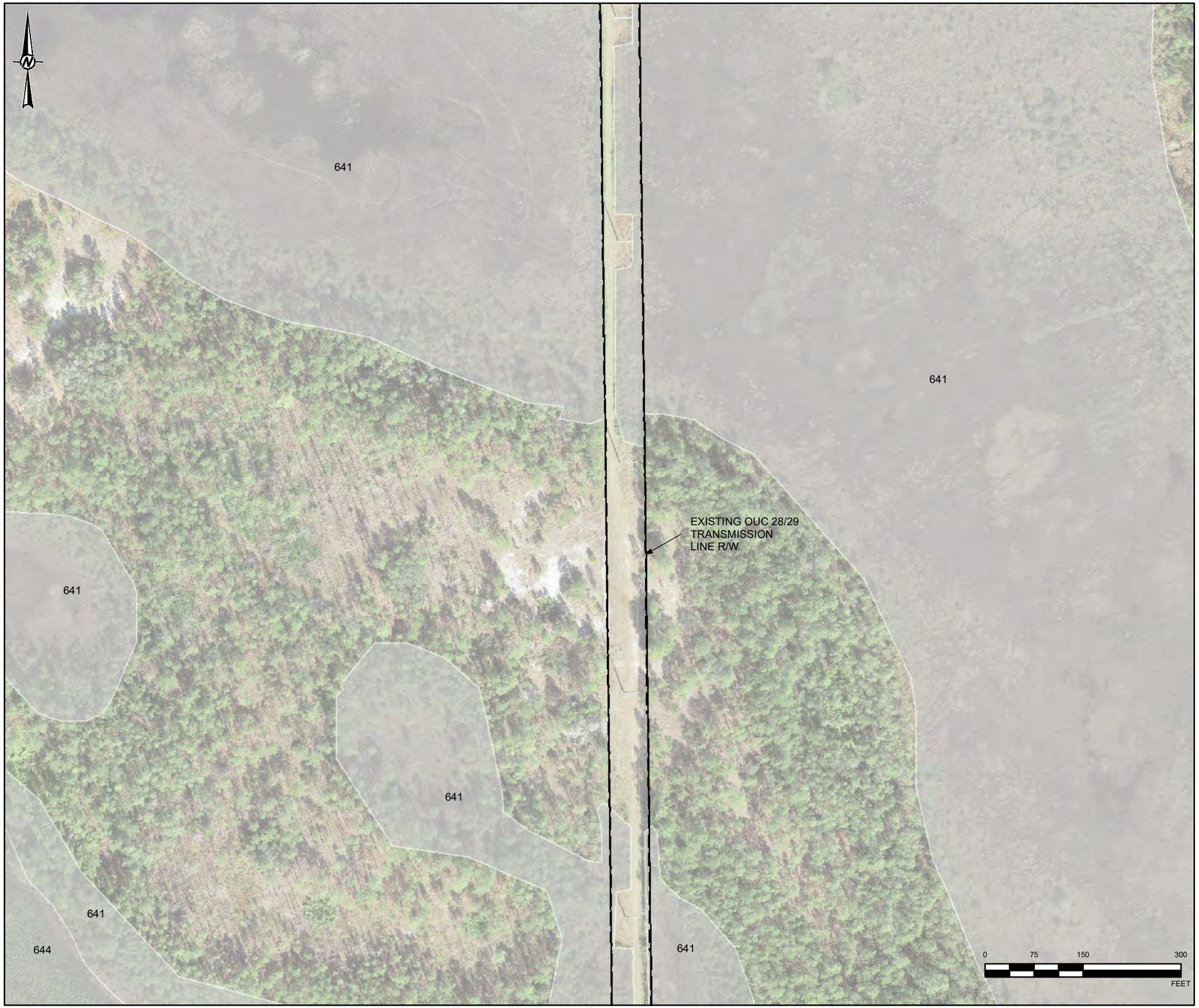

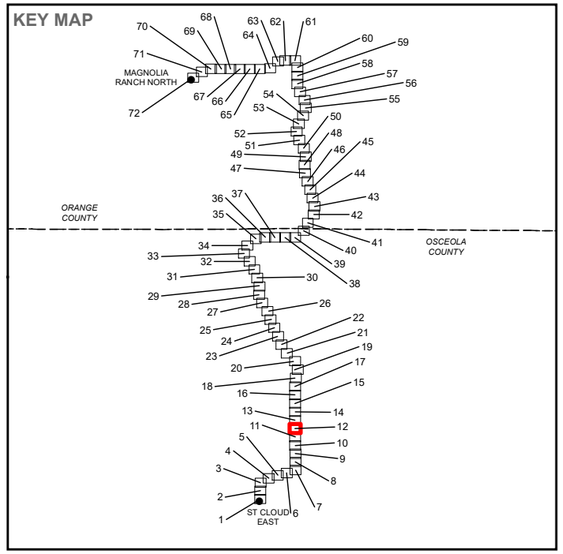

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 641 - FRESHWATER MARSHES
- 644 - EMERGENT AQUATIC VEGETATION

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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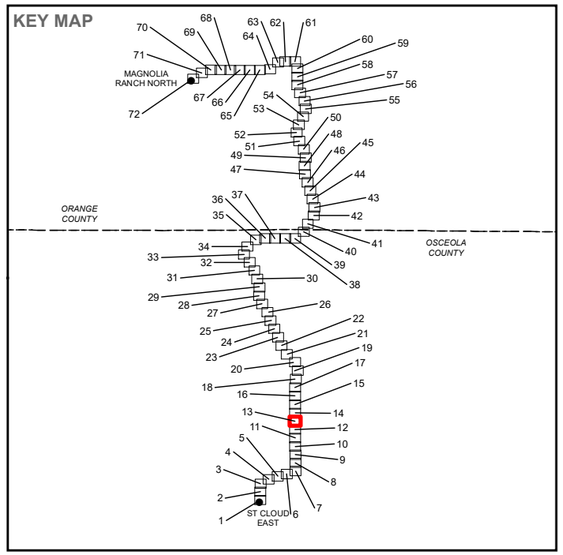
KEY MAP



LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
  641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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PROJECT NO.	CONTROL	REV.	FIGURE
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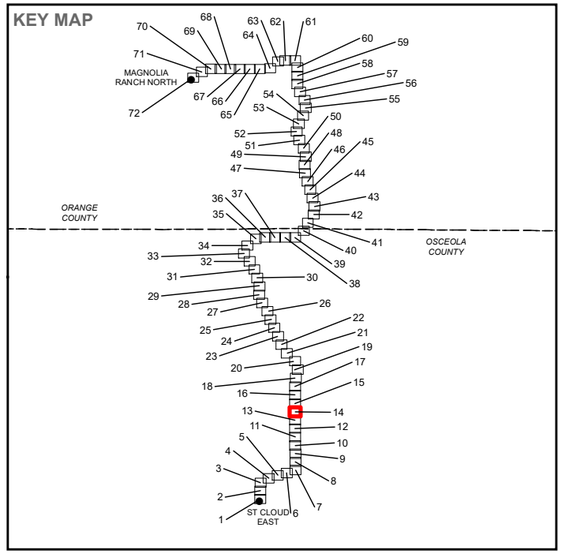

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 512 - CHANNELIZED WATERWAY
- 621 - CYPRESS
- 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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PROJECT NO.	CONTROL	REV.	FIGURE
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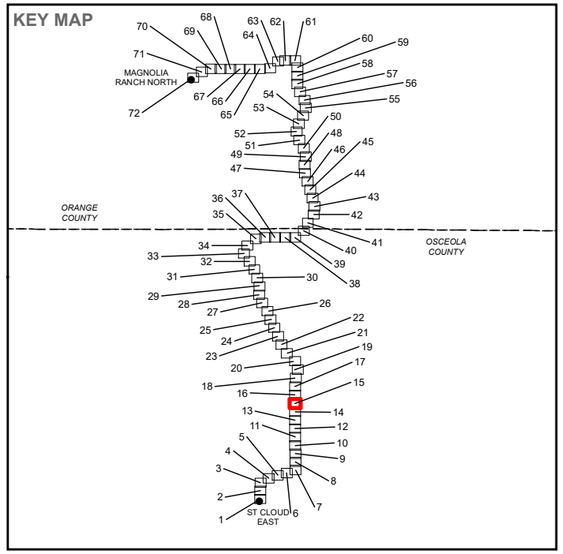

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
  - 512 - CHANNELIZED WATERWAY
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
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ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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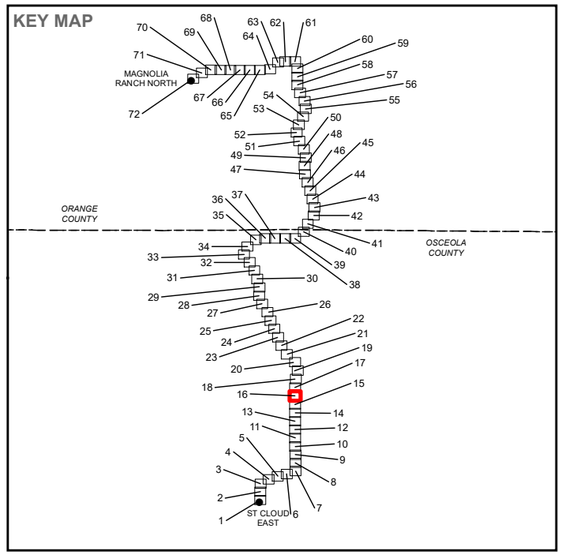

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
  - 512 - CHANNELIZED WATERWAY
  - 630 - WETLAND FORESTED MIXED

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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CLIENT
ORLANDO UTILITIES COMMISSION

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ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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PROJECT NO.	CONTROL	REV.	FIGURE
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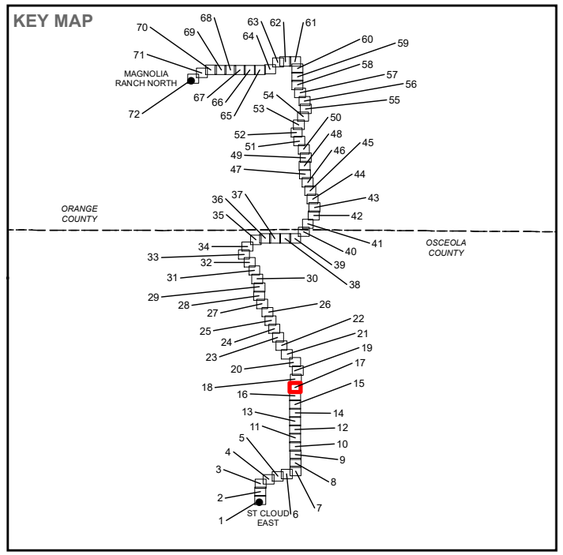

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 512 - CHANNELIZED WATERWAY
- 530 - RESERVOIRS
- 617 - MIXED WETLAND HARDWOODS
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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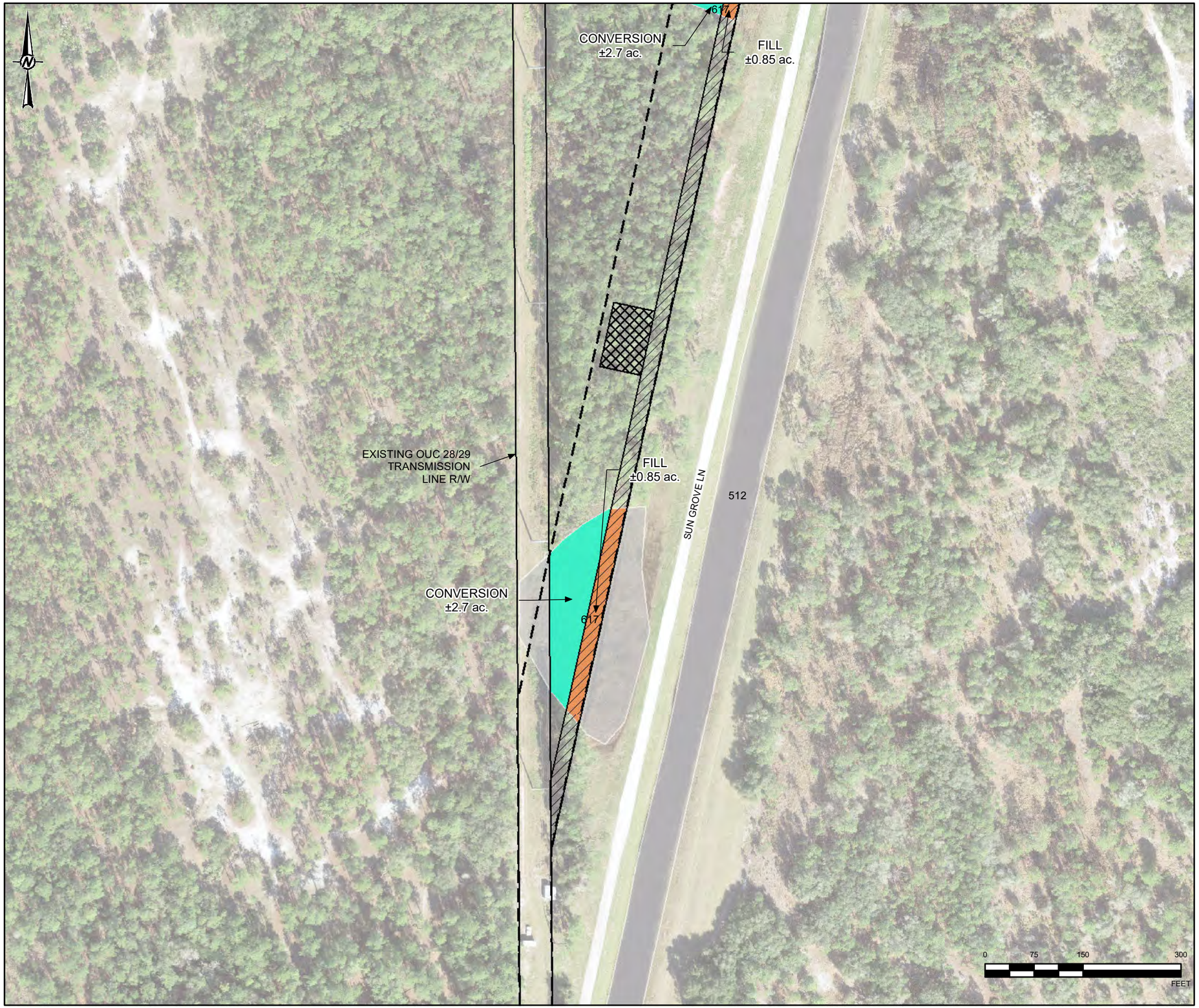

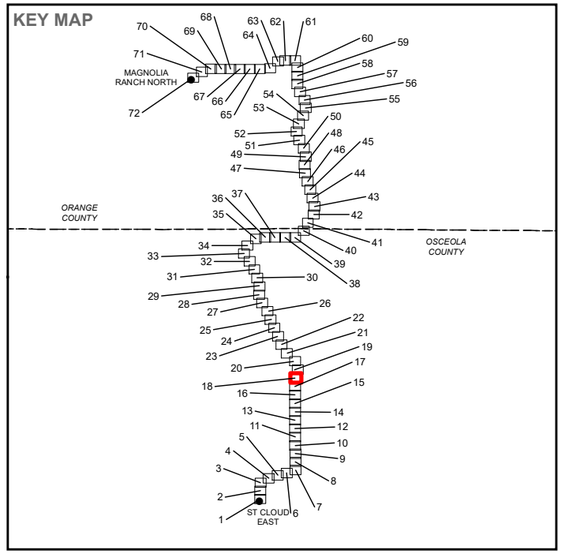

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 512 - CHANNELIZED WATERWAY
- 617 - MIXED WETLAND HARDWOODS

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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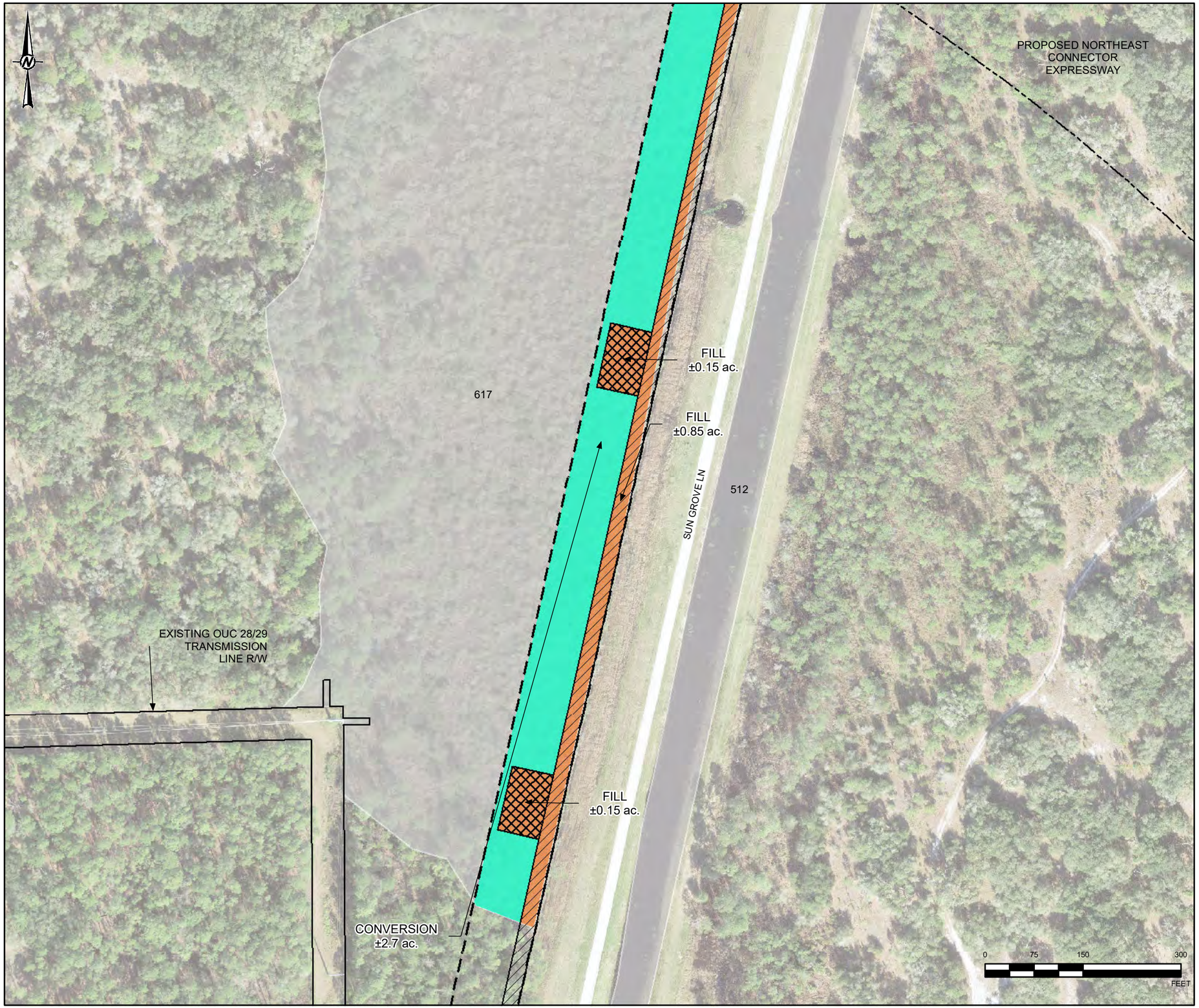

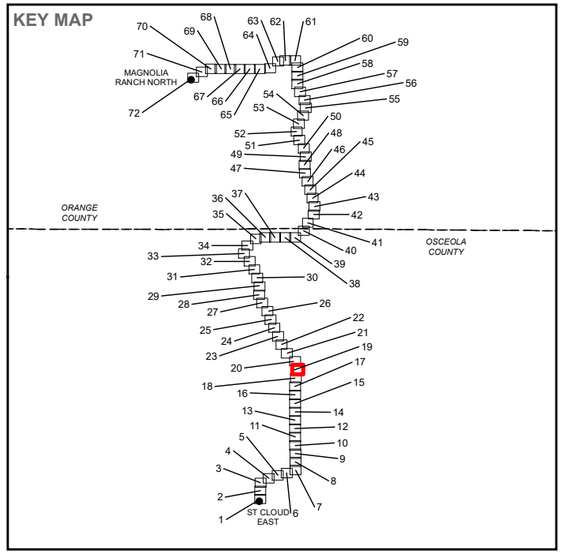

LEGEND

- EXISTING OUC 28/29 TRANSMISSION LINE R/W
- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 512 - CHANNELIZED WATERWAY
- 617 - MIXED WETLAND HARDWOODS

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
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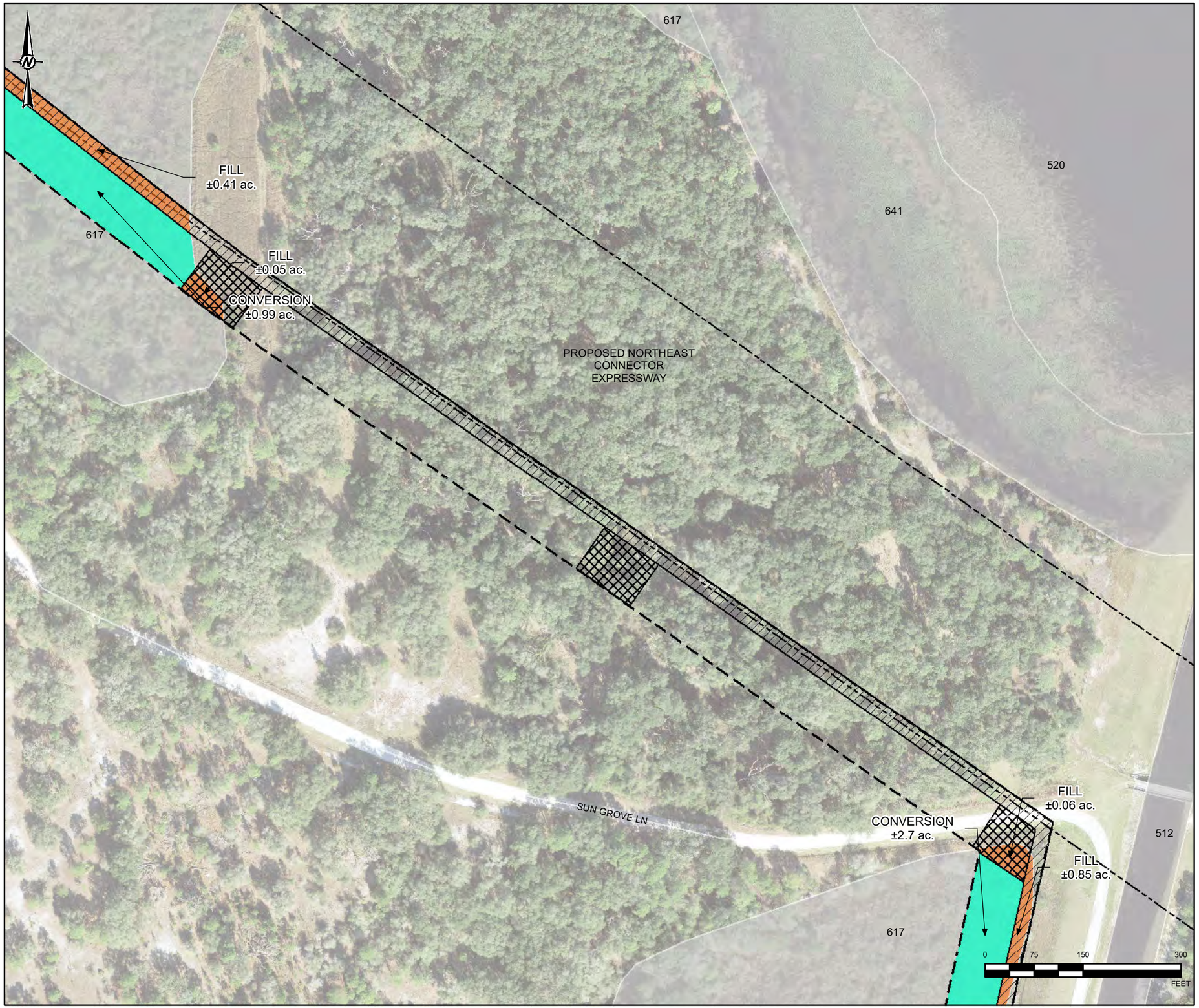

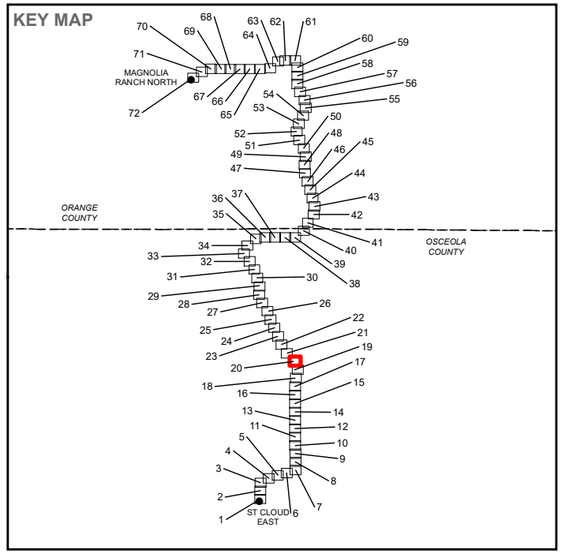

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 512 - CHANNELIZED WATERWAY
- 520 - LAKES
- 617 - MIXED WETLAND HARDWOODS
- 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
CONCEPTUAL LAYOUT AND WETLAND IMPACTS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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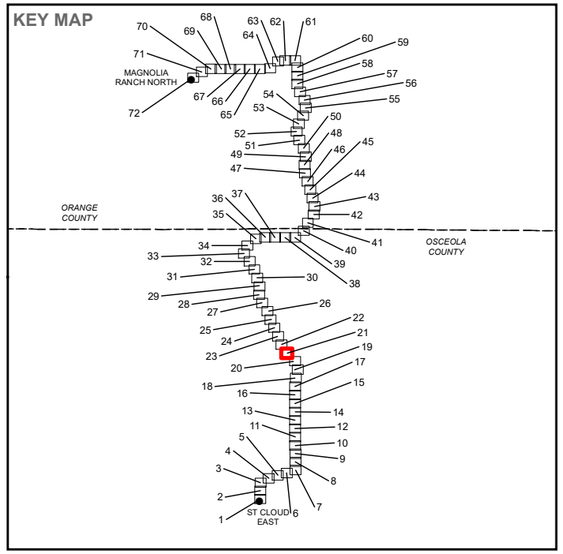

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 617 - MIXED WETLAND HARDWOODS
- 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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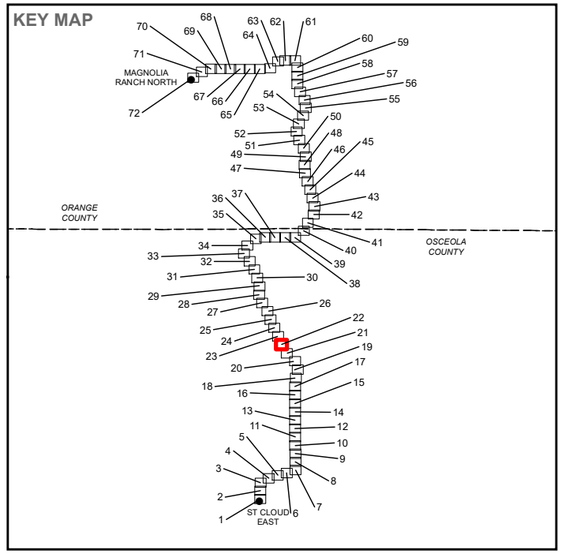

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- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 617 - MIXED WETLAND HARDWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
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5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
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PROJECT
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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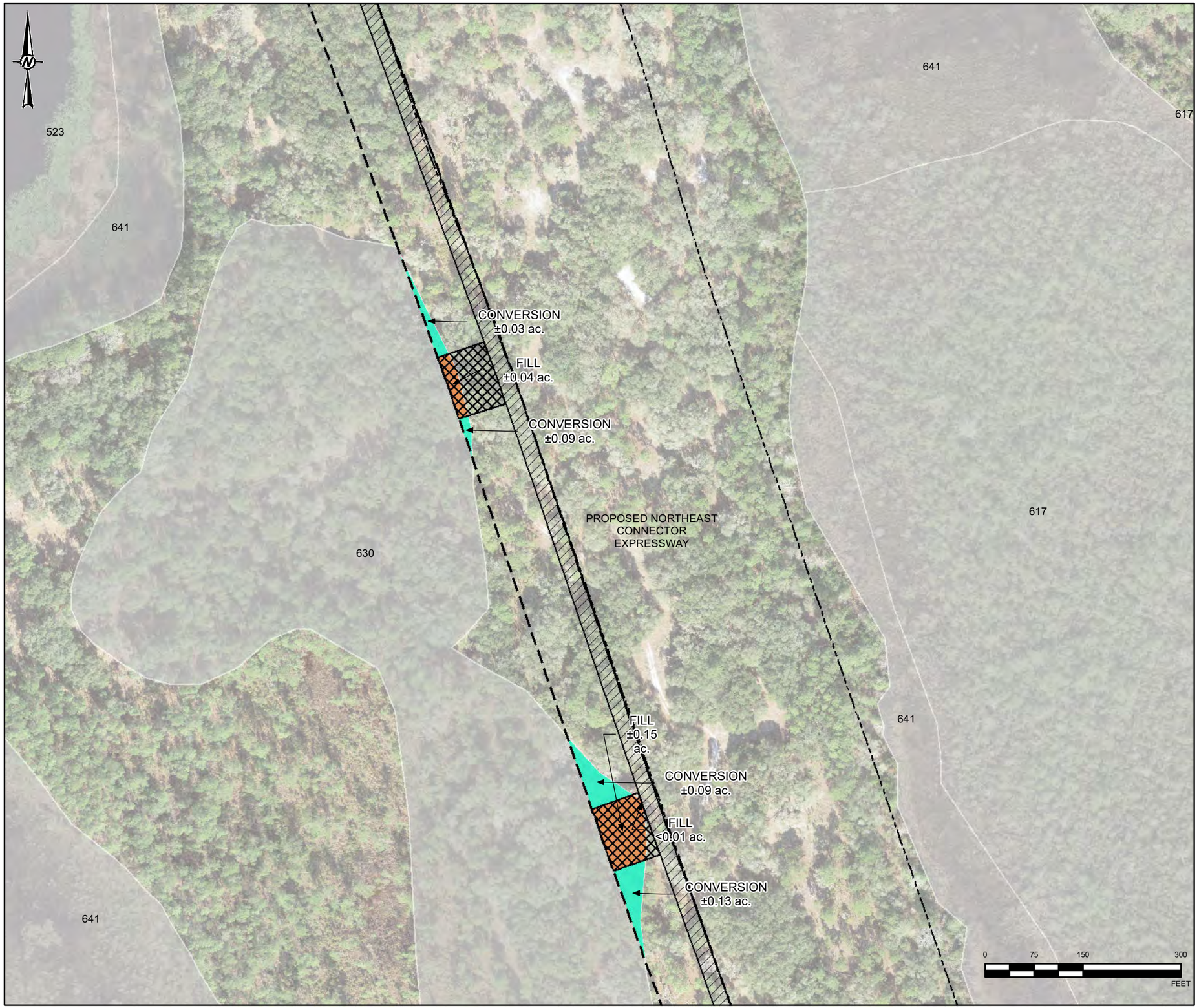

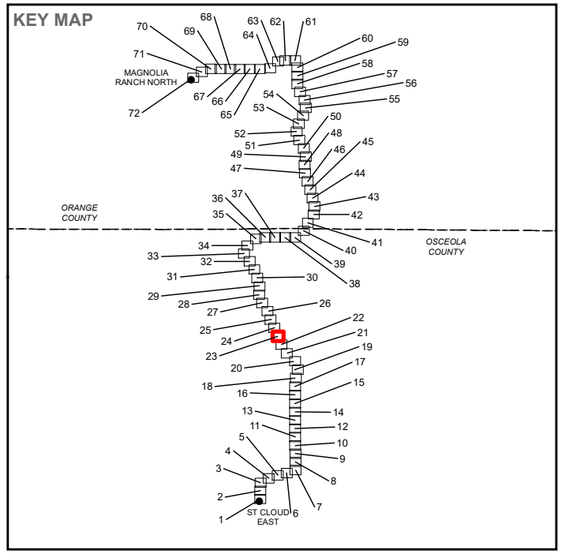

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 523 - LAKES LARGER THAN 10 ACRES (4 HECTARES) BUT LESS THAN 100 ACRES
- 617 - MIXED WETLAND HARDWOODS
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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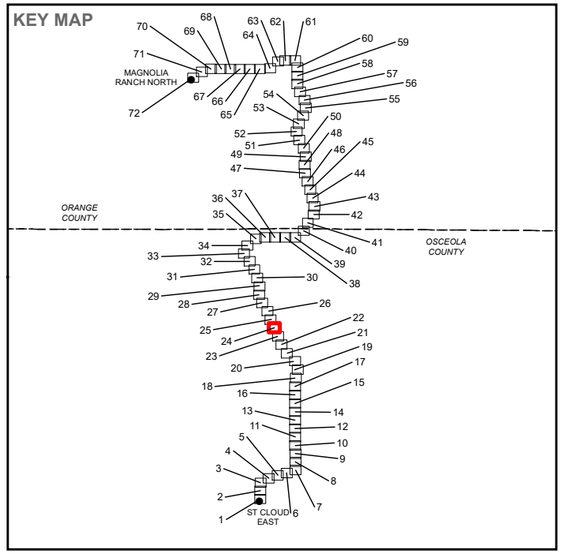

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 523 - LAKES LARGER THAN 10 ACRES (4 HECTARES) BUT LESS THAN 100 ACRES
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- 641 - FRESHWATER MARSHES

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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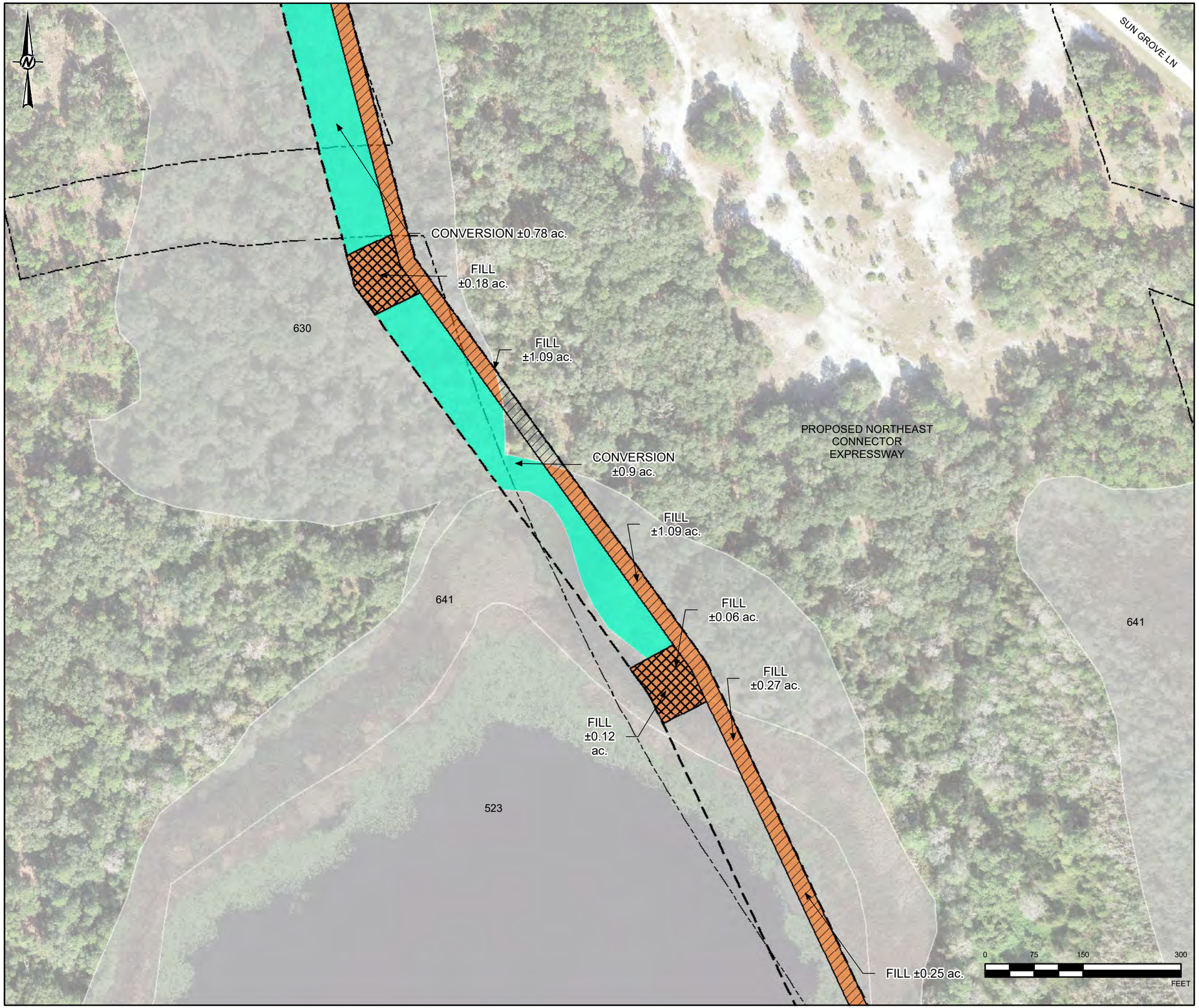

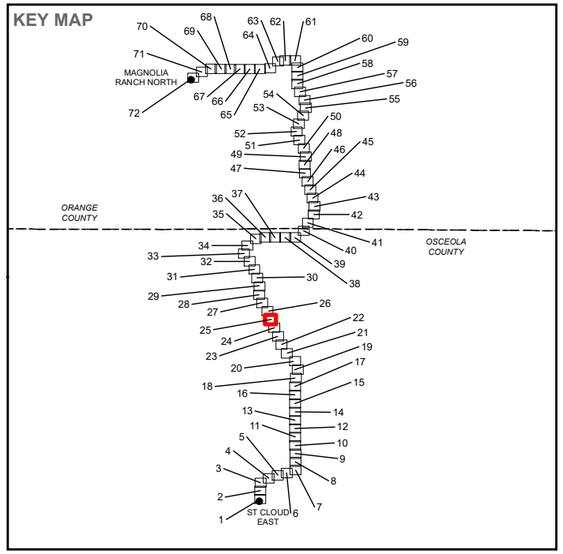

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 523 - LAKES LARGER THAN 10 ACRES (4 HECTARES) BUT LESS THAN 100 ACRES
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

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4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
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CLIENT
ORLANDO UTILITIES COMMISSION

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ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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YYYY-MM-DD	2021-06-04
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd
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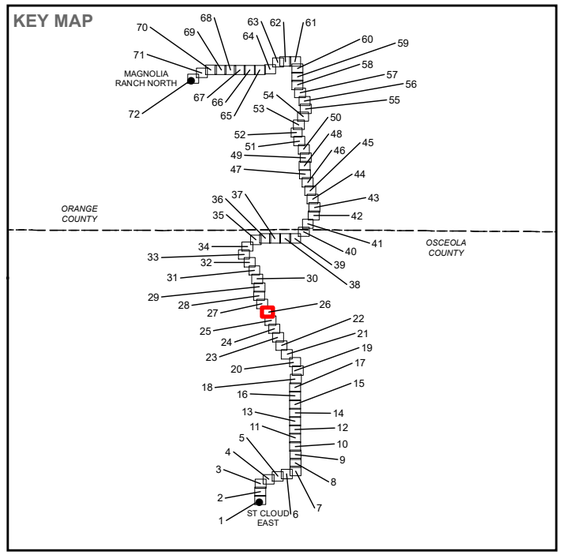

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 621 - CYPRESS
- 630 - WETLAND FORESTED MIXED
- 644 - EMERGENT AQUATIC VEGETATION

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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PROJECT
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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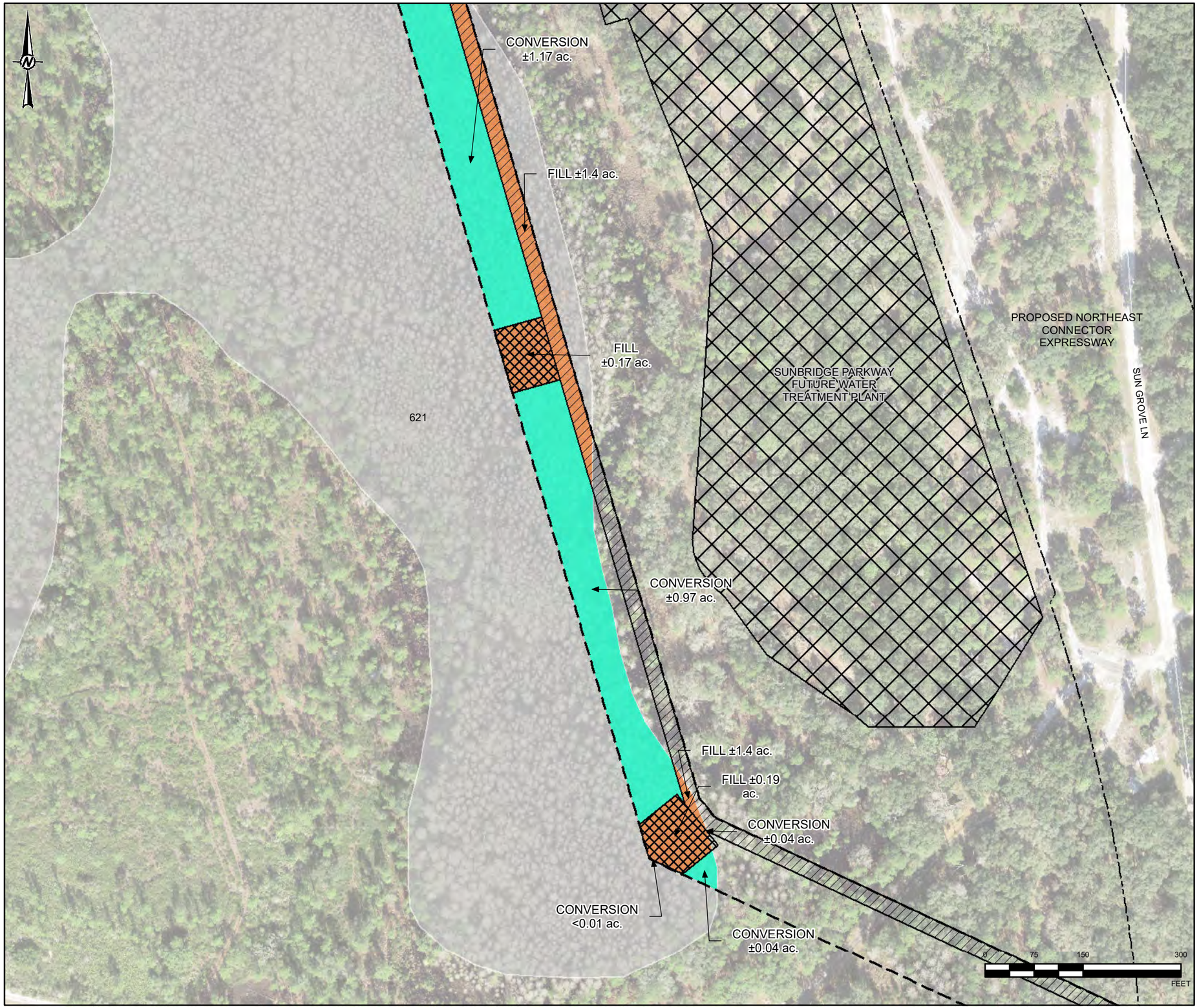

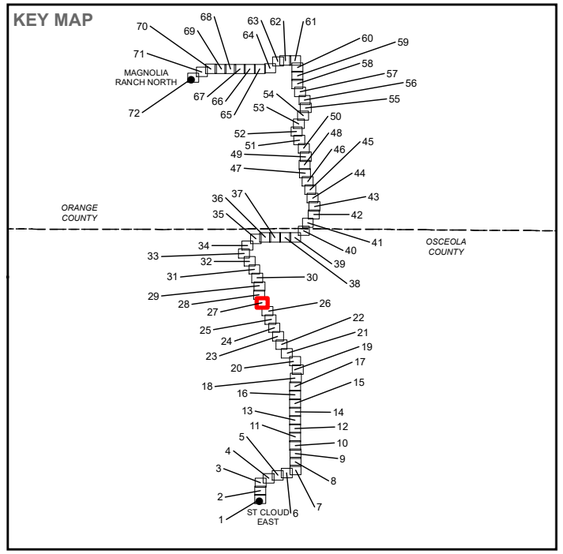

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- SUNBRIDGE PARKWAY FUTURE WATER TREATMENT PLANT
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 621 - CYPRESS

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

641

630

CONVERSION ±1.42 ac.

FILL ±0.2 ac.

PROPOSED NORTHEAST CONNECTOR EXPRESSWAY

CONVERSION ±1.17 ac.

SUNBRIDGE PARKWAY FUTURE WATER TREATMENT PLANT

621

621

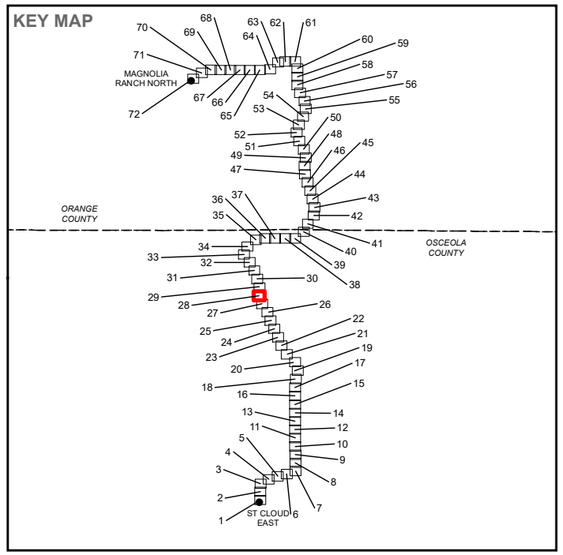
FILL ±0.17 ac.

CONVERSION ±1.17 ac.

FILL ±1.4 ac.

0 75 150 300 FEET

KEY MAP



LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- SUNBRIDGE PARKWAY FUTURE WATER TREATMENT PLANT
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 621 - CYPRESS
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES

REFERENCE(S)

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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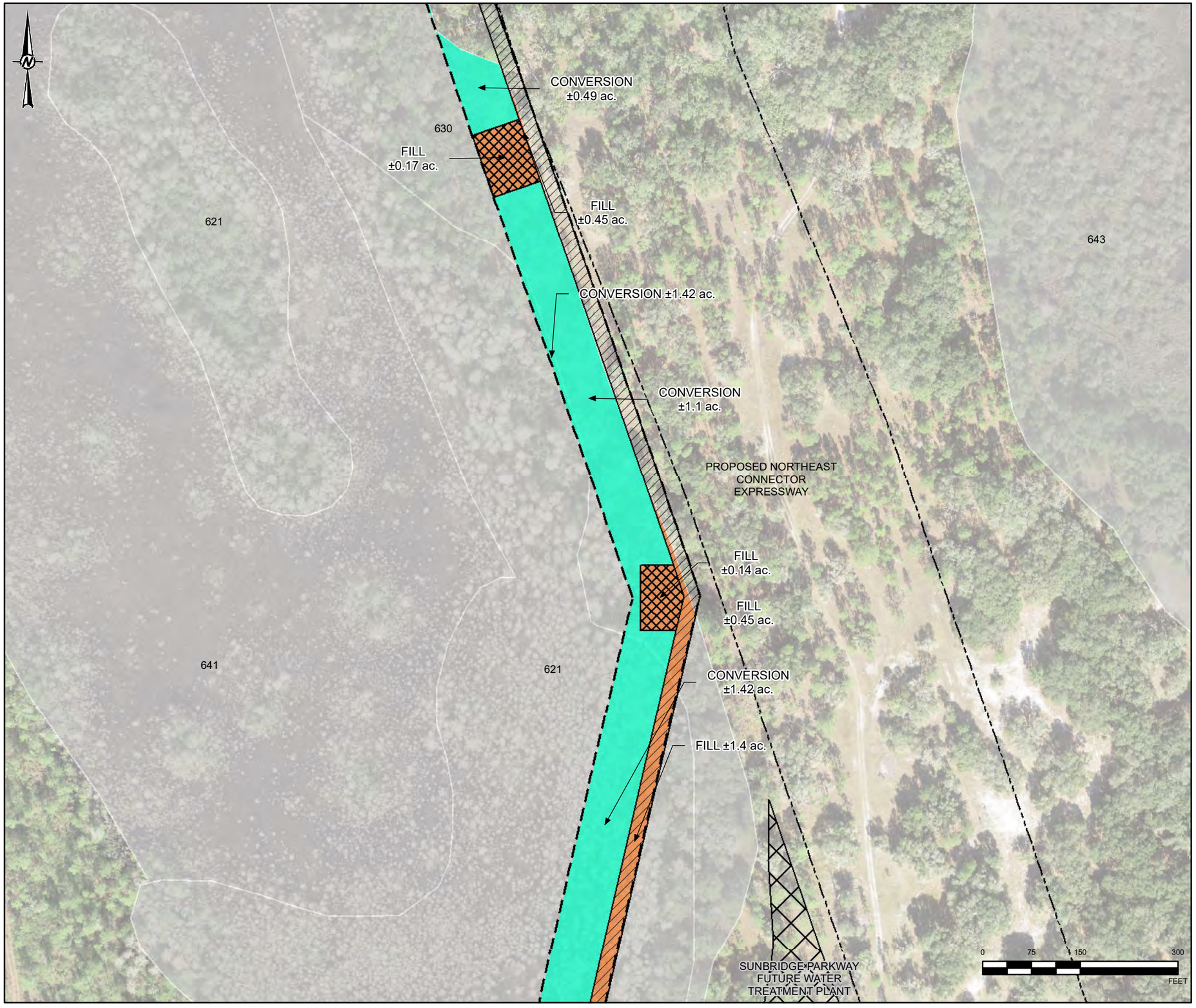

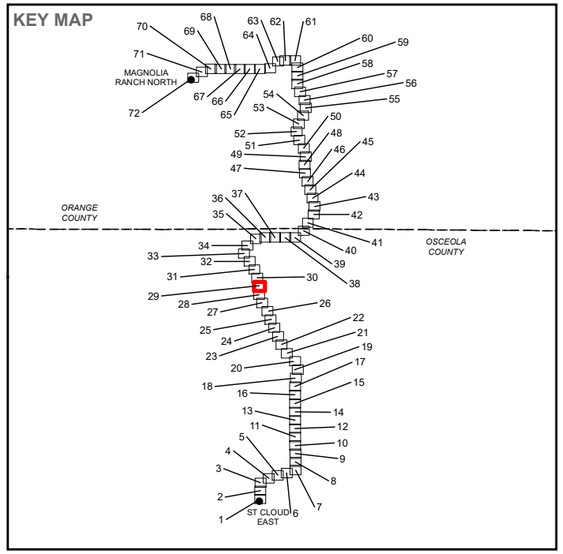

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
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- SUNBRIDGE PARKWAY FUTURE WATER TREATMENT PLANT
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
CONCEPTUAL LAYOUT AND WETLAND IMPACTS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

PATH: G:\Projects\OUC\SC\Cloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd
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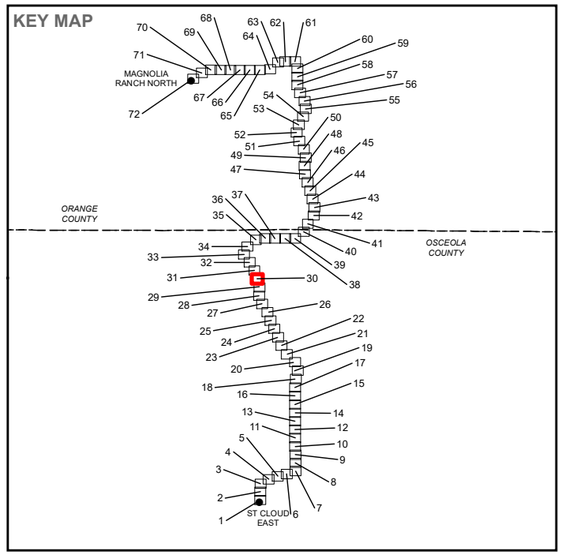

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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PROJECTION: TRANSVERSE MERCATOR
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CLIENT
ORLANDO UTILITIES COMMISSION

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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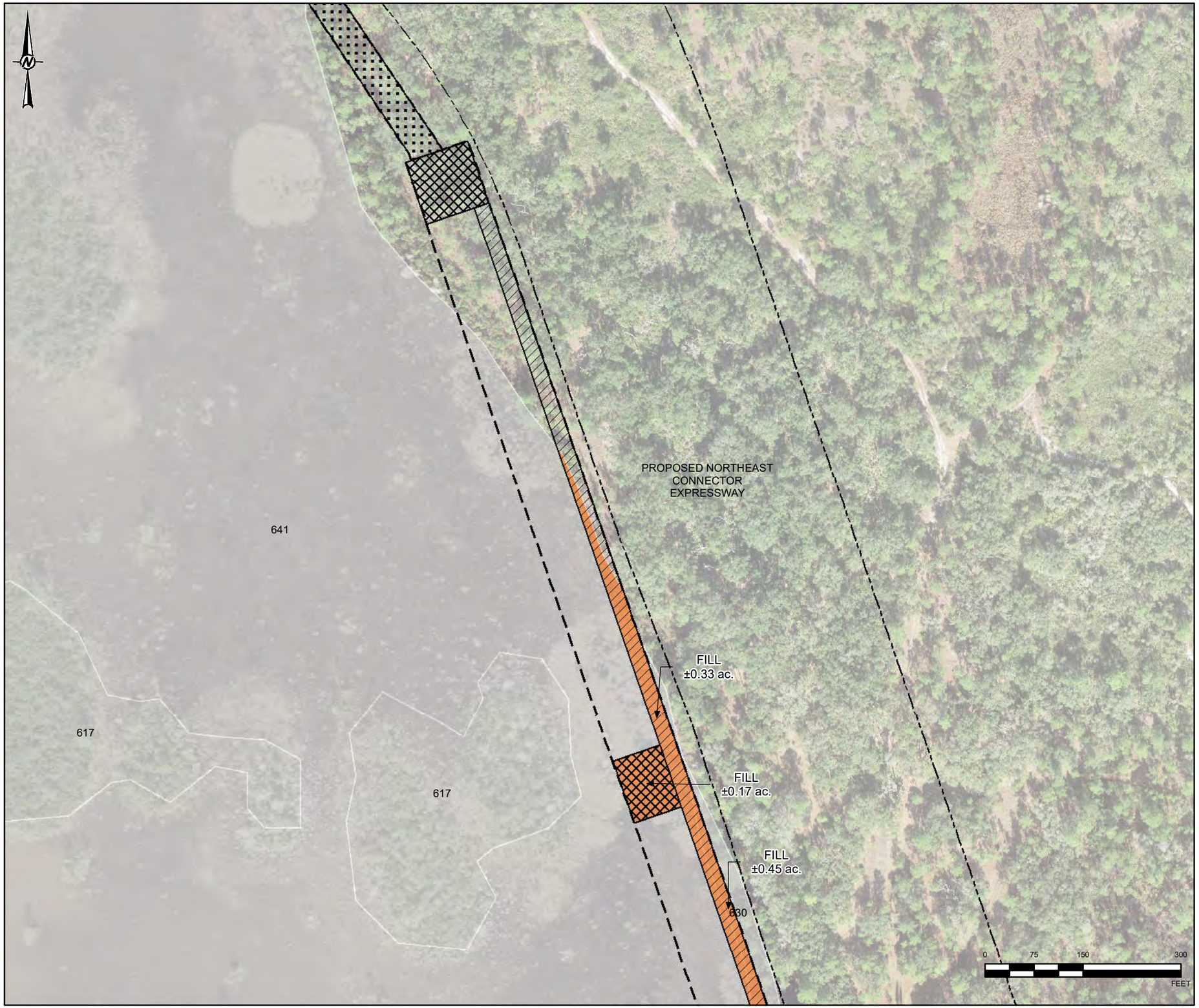

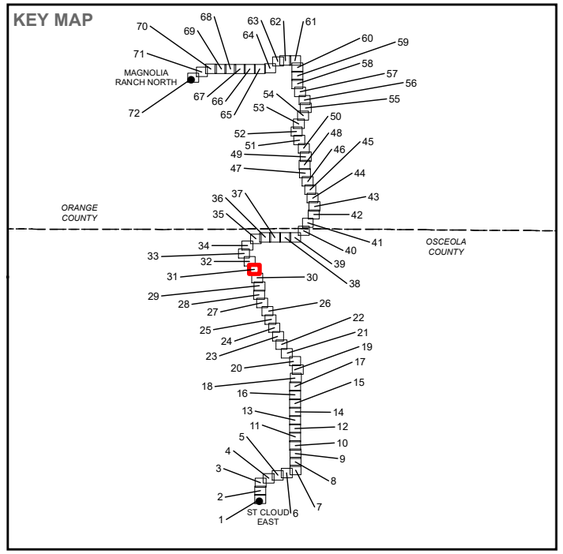

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- HDD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- WETLANDS
  - 617 - MIXED WETLAND HARDWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

PATH: G:\Projects\OUC\SiCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd
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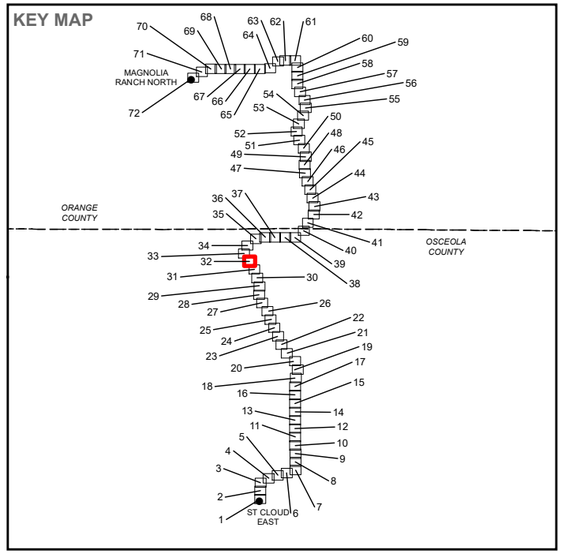

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- HDD
- WETLANDS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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PROJECT NO.	CONTROL	REV.	FIGURE
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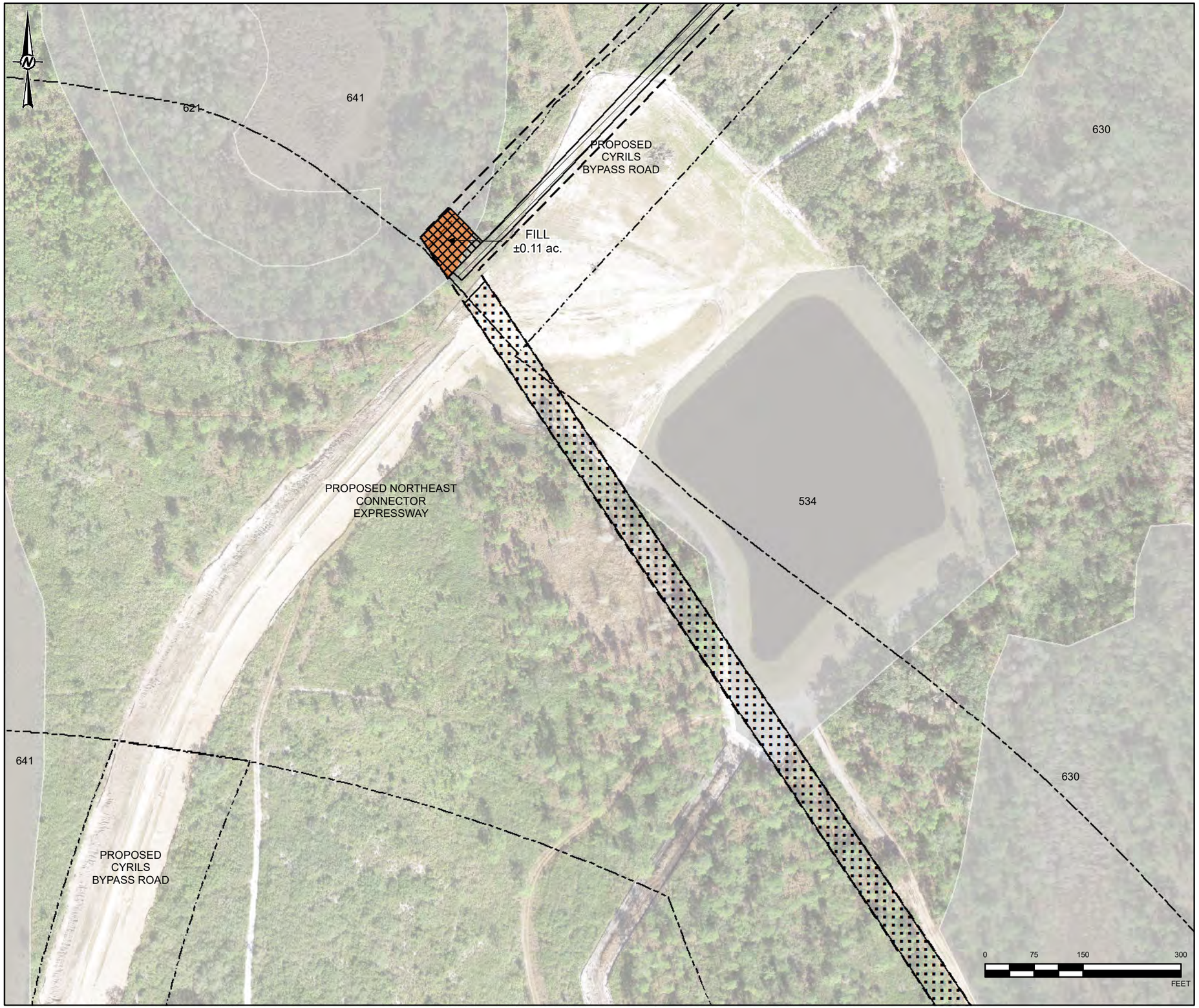

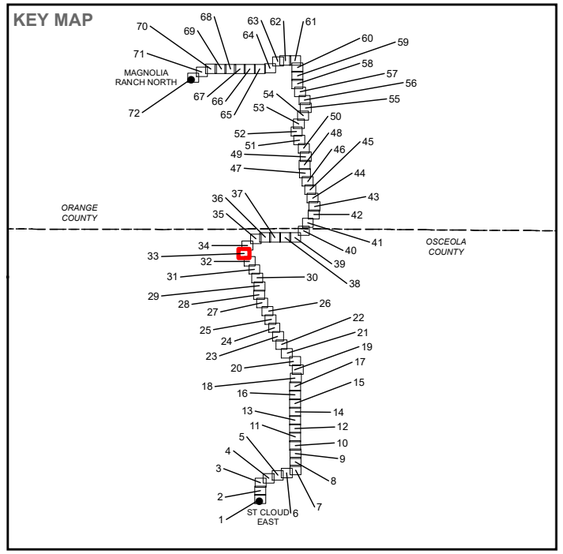

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED CYRILS BYPASS ROAD
- PROPOSED NORTHEAST CONNECTOR EXPRESSWAY
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- HDD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- WETLANDS
  - 534 - RESERVOIRS LESS THAN 10 ACRES (4 HECTARES) WHICH ARE DOMINANT FEATURES
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
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4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
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6. SERVICE LAYER CREDITS:

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

PATH: G:\Projects\OUC\SlCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TL8\AC_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd
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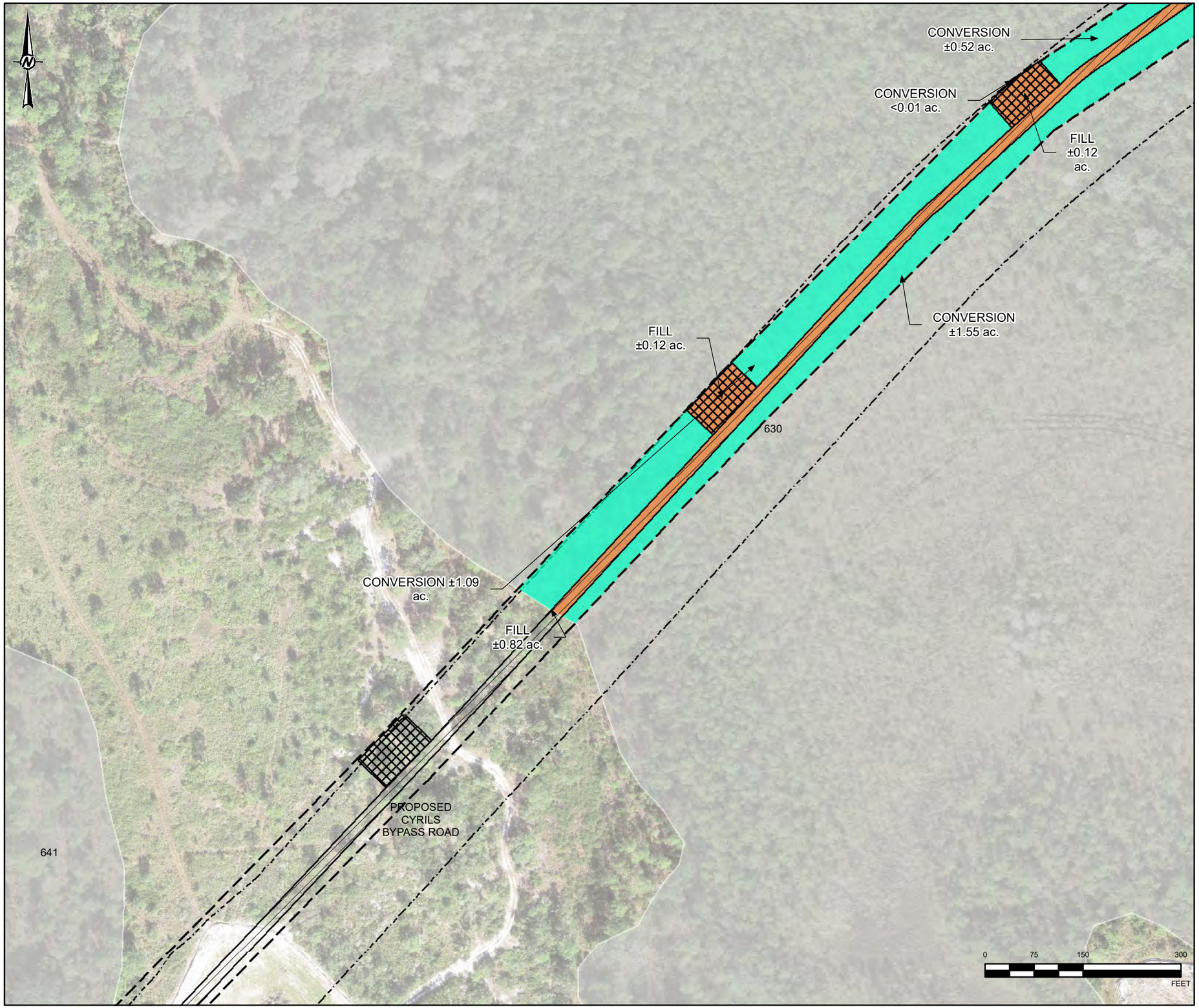

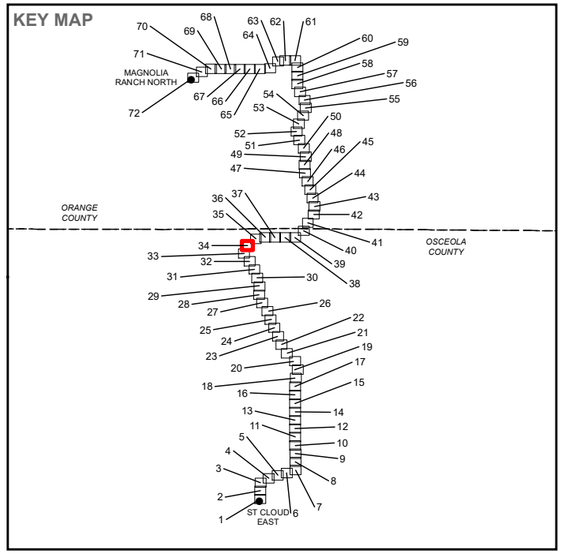

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED CYRILS BYPASS ROAD
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
CONCEPTUAL LAYOUT AND WETLAND IMPACTS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
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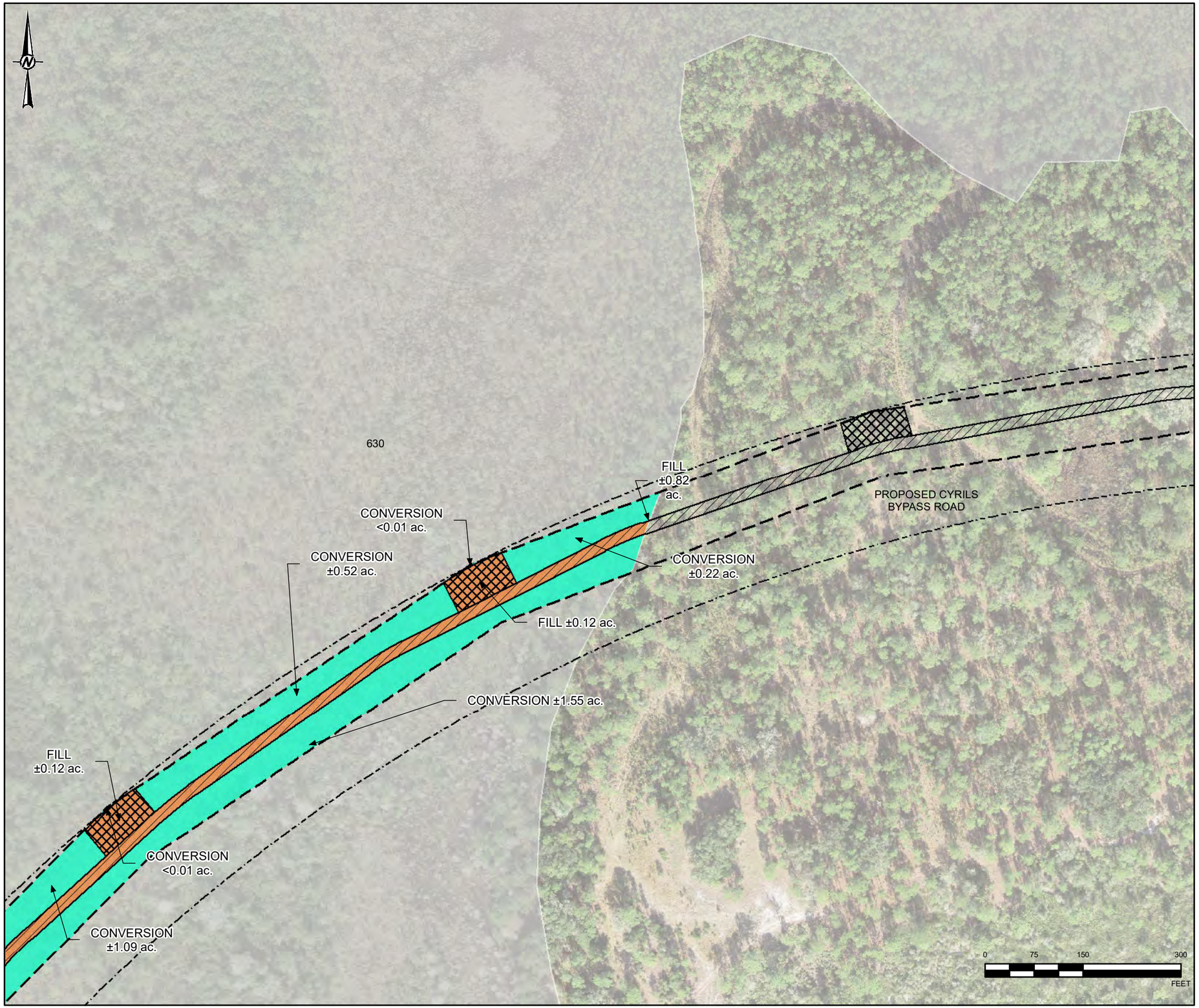
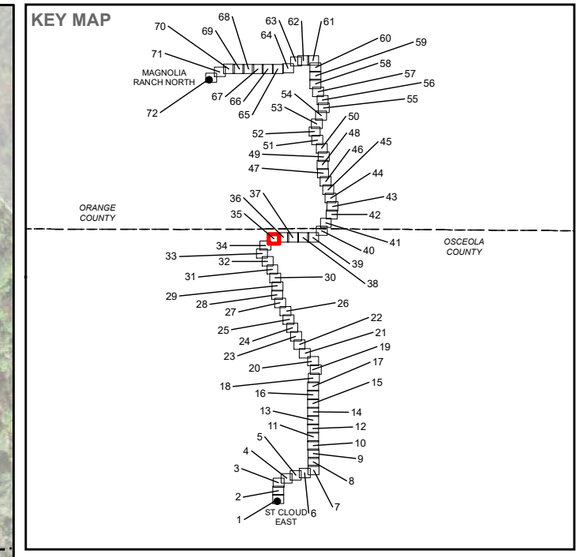
PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PATH: G:\Projects\OUC\SCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd





LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED CYRILS BYPASS ROAD
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 630 - WETLAND FORESTED MIXED

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
CONCEPTUAL LAYOUT AND WETLAND IMPACTS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
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APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

PATH: G:\Projects\OUC\SlCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd
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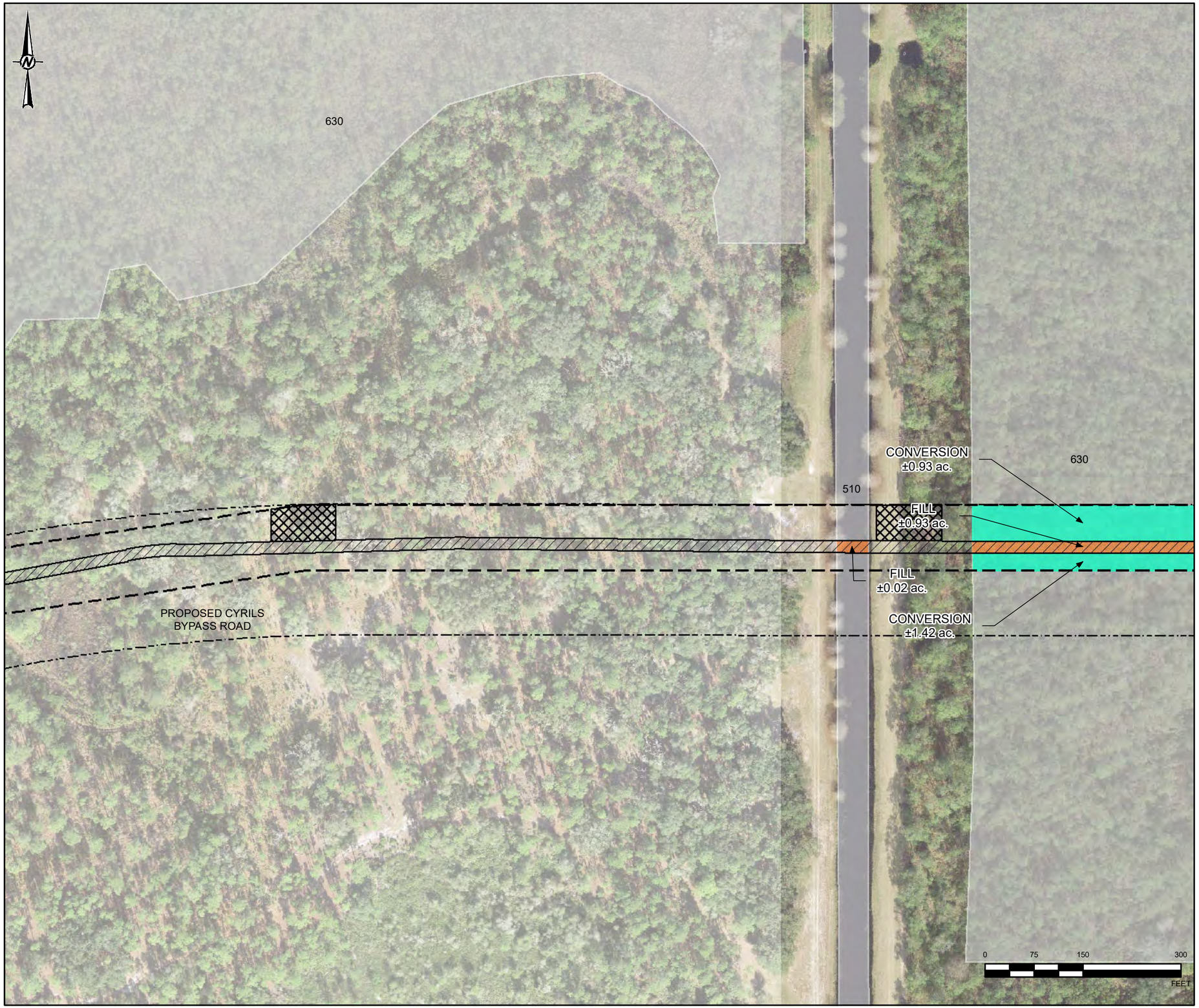

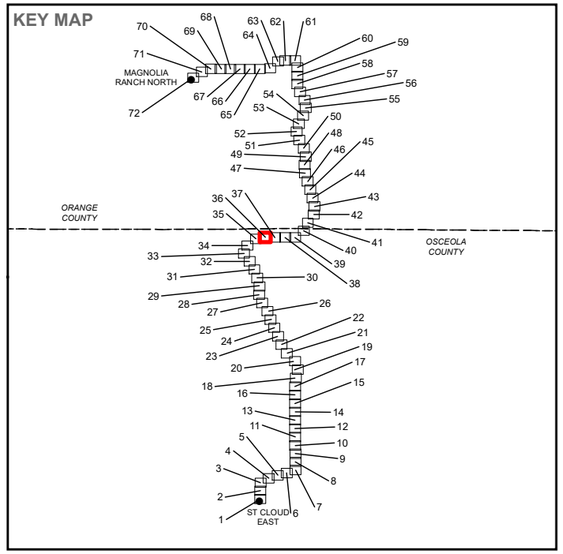

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED CYRILS BYPASS ROAD
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 510 - STREAMS AND WATERWAYS
- 630 - WETLAND FORESTED MIXED

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd
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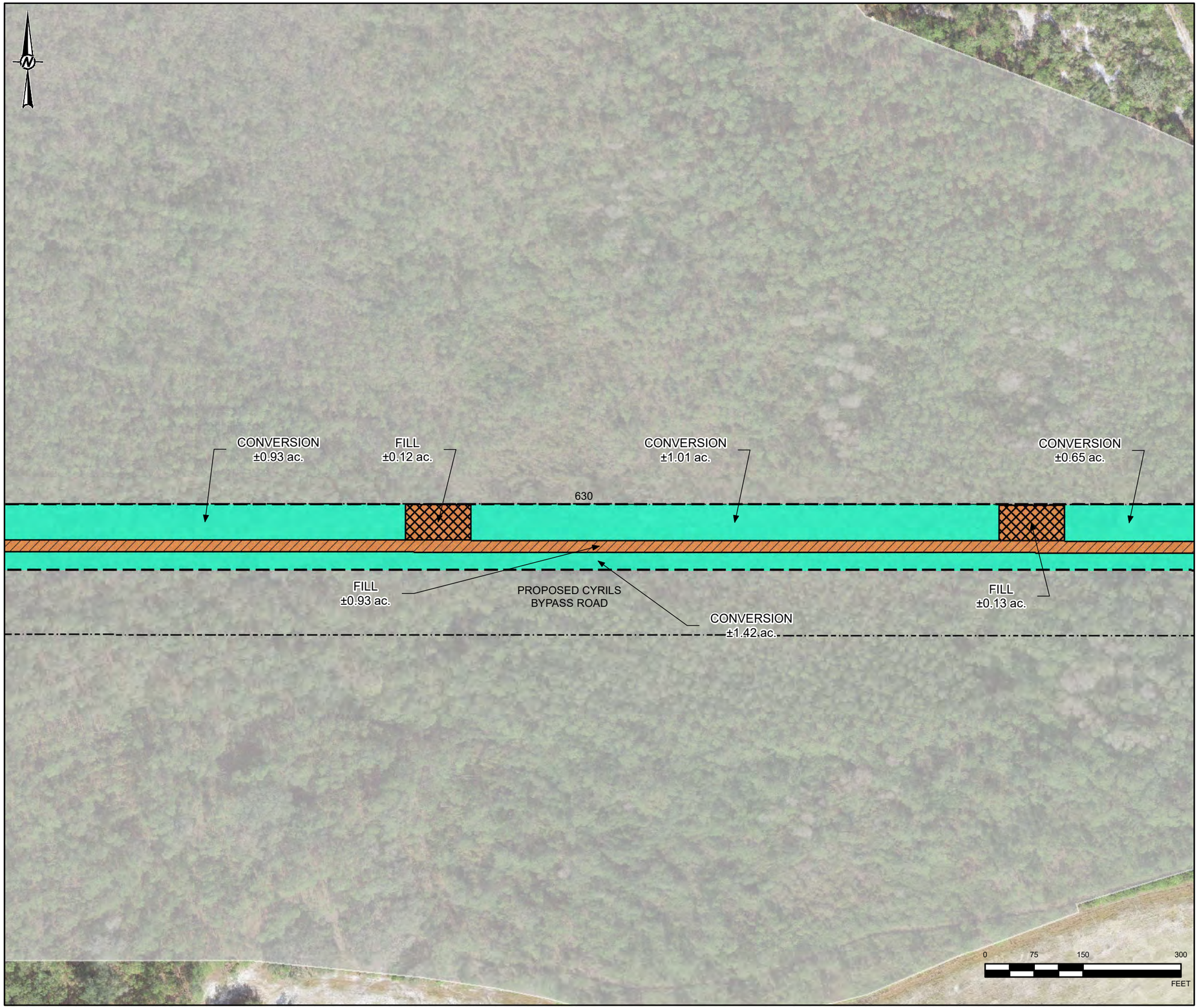

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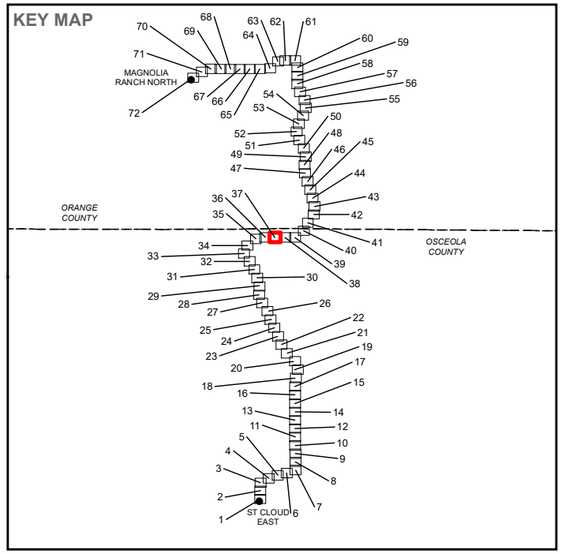

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED CYRILS BYPASS ROAD
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 630 - WETLAND FORESTED MIXED

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
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6. SERVICE LAYER CREDITS:

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19115515	C021	0	3-1

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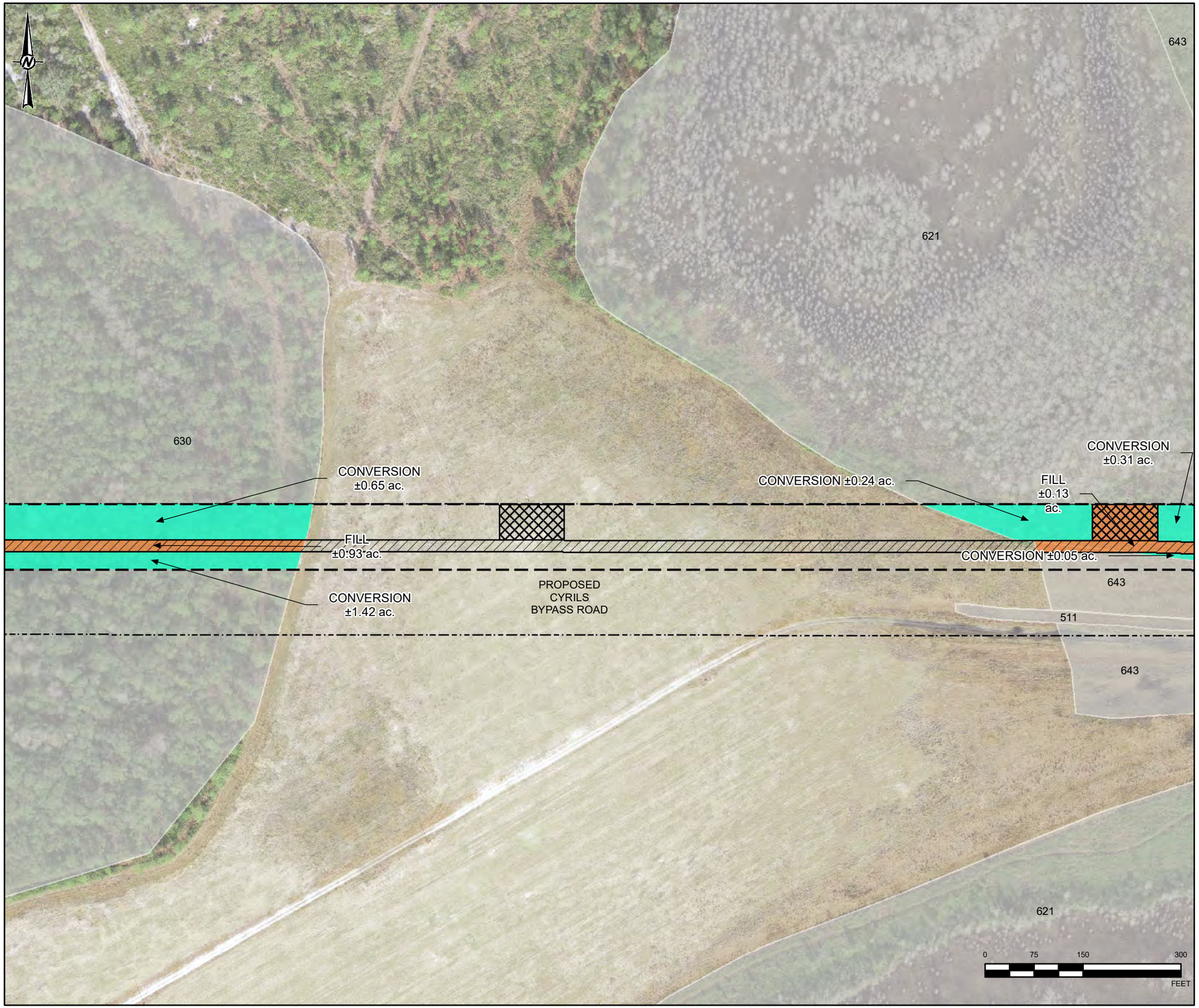

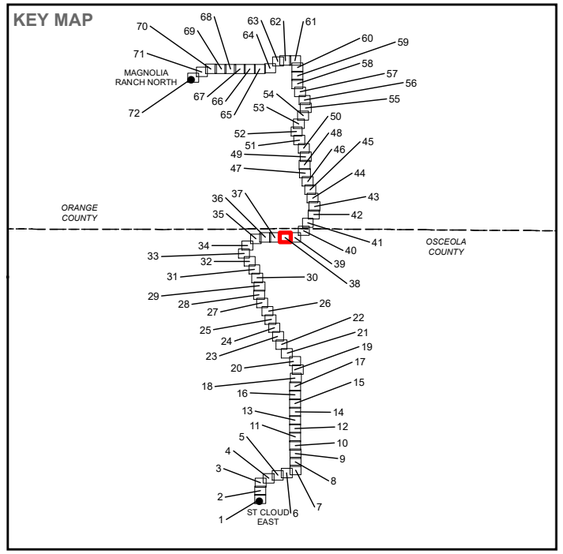

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED CYRILS BYPASS ROAD
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 511 - DITCHES
- 621 - CYPRESS
- 630 - WETLAND FORESTED MIXED
- 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
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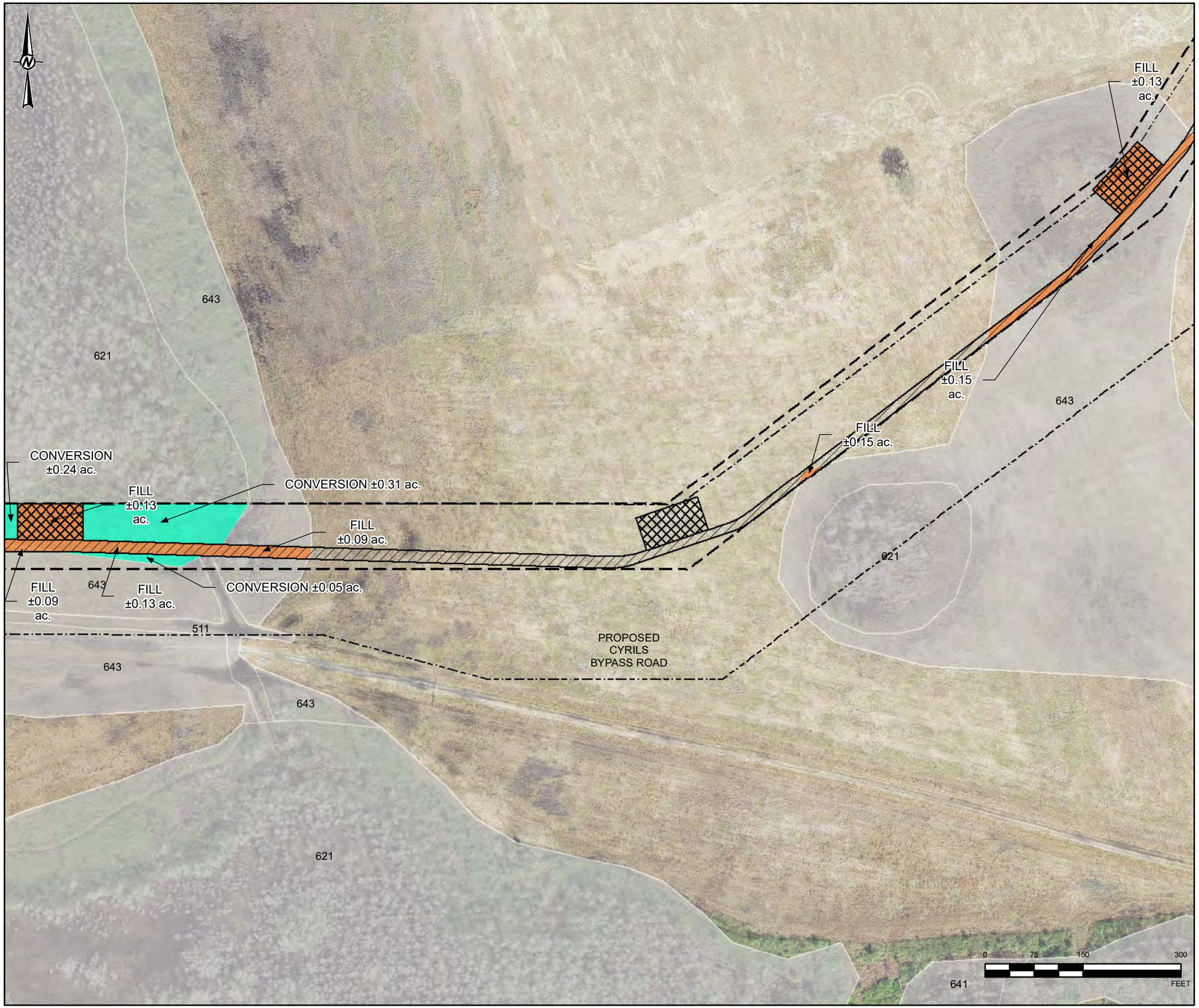

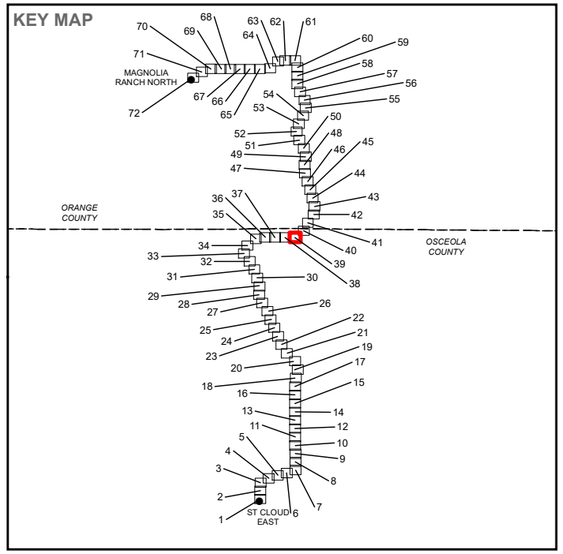

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED CYRILS BYPASS ROAD
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 511 - DITCHES
  - 621 - CYPRESS
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
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4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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DATUM: NORTH AMERICAN 1983

CLIENT
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ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
CONCEPTUAL LAYOUT AND WETLAND IMPACTS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd

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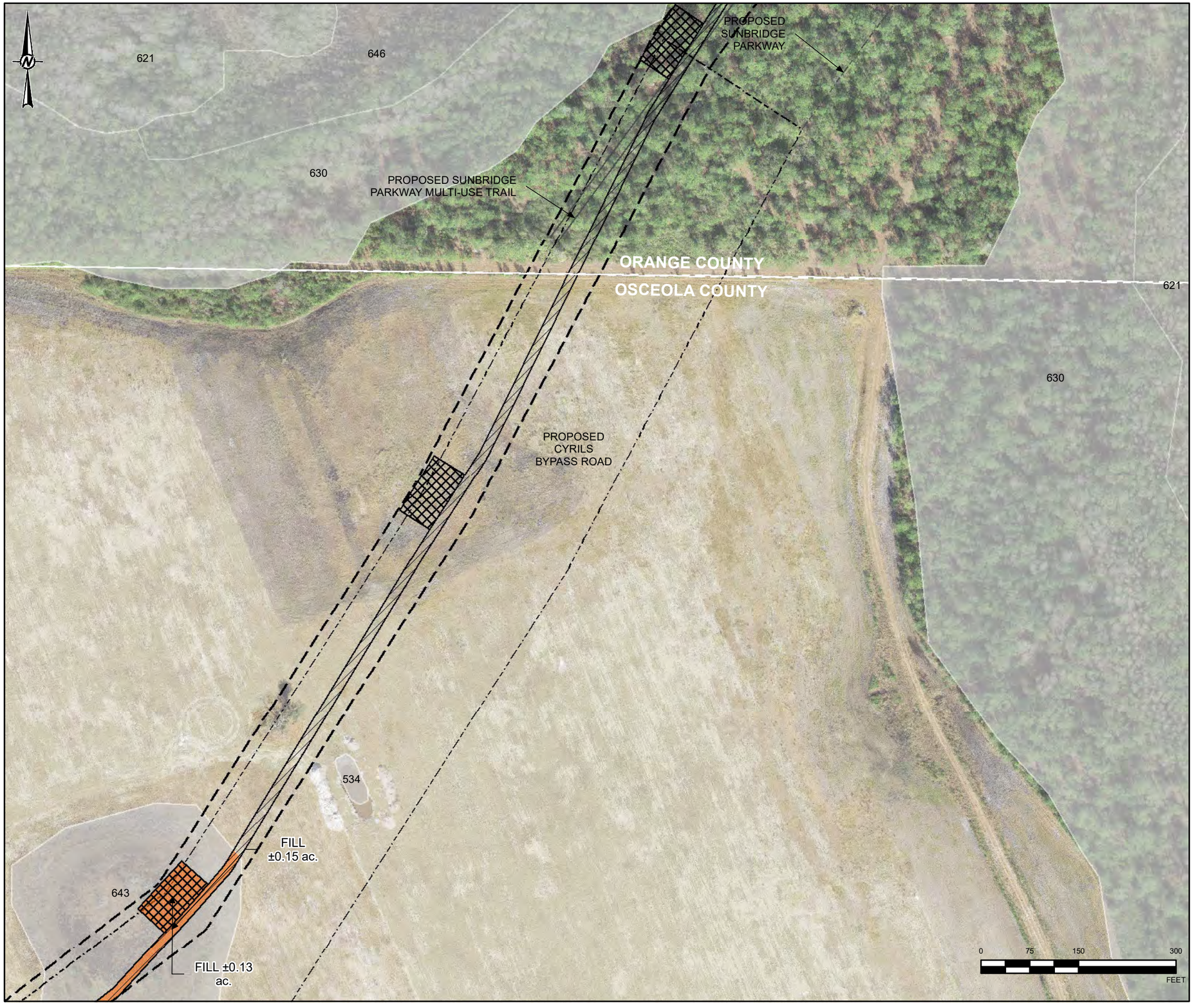

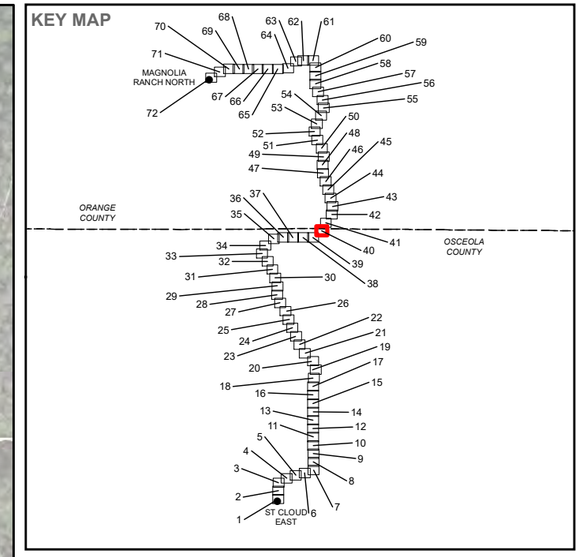

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- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED CYRILS BYPASS ROAD
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- WETLANDS
- 534 - RESERVOIRS LESS THAN 10 ACRES (4 HECTARES) WHICH ARE DOMINANT FEATURES
- 621 - CYPRESS
- 630 - WETLAND FORESTED MIXED
- 643 - WET PRAIRIES
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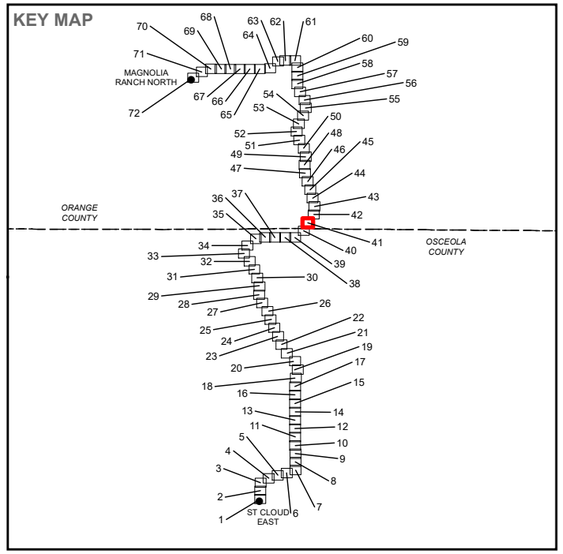

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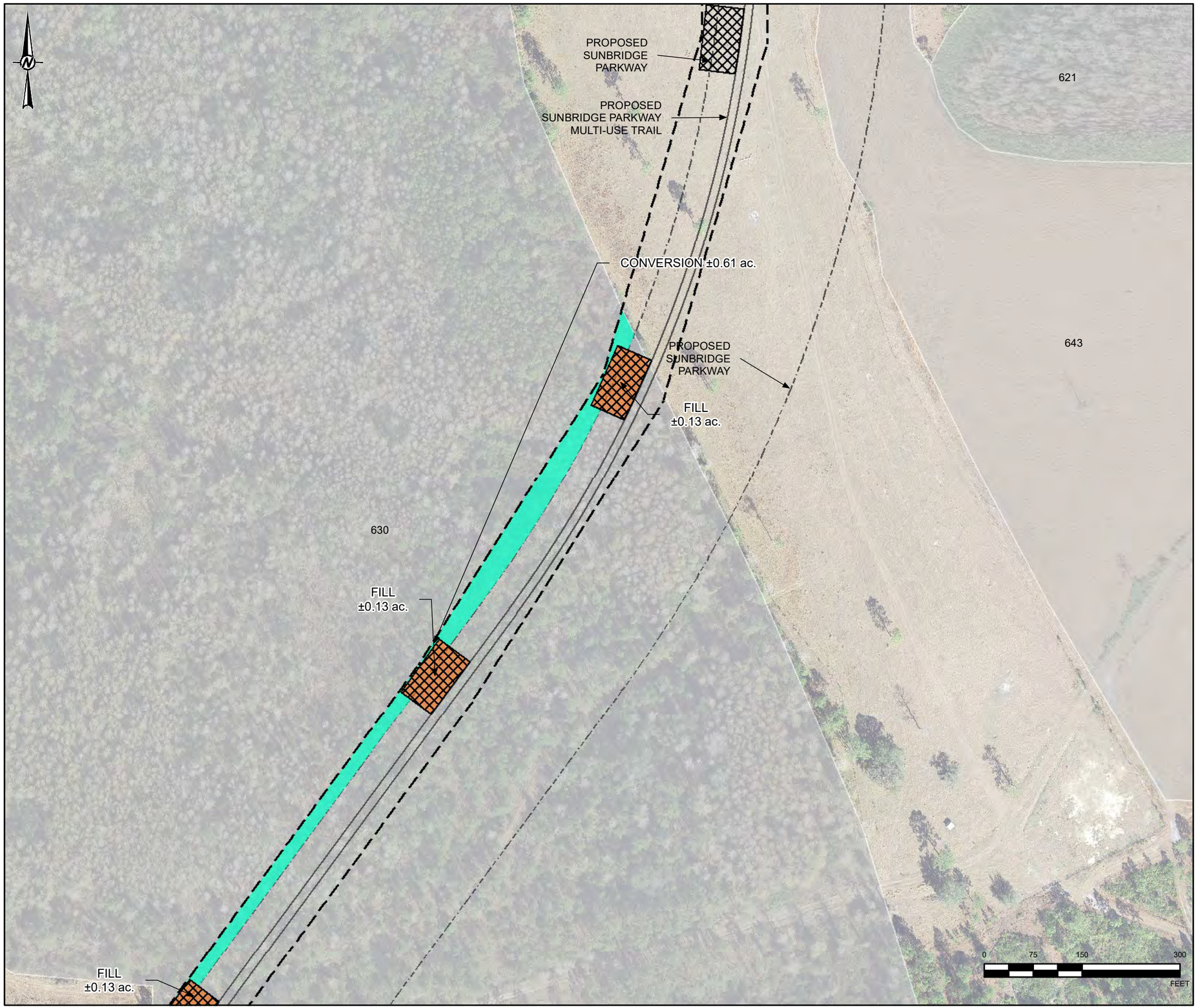

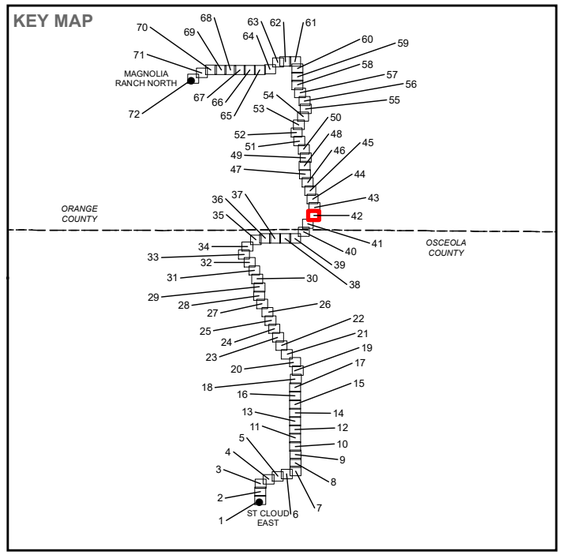

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- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
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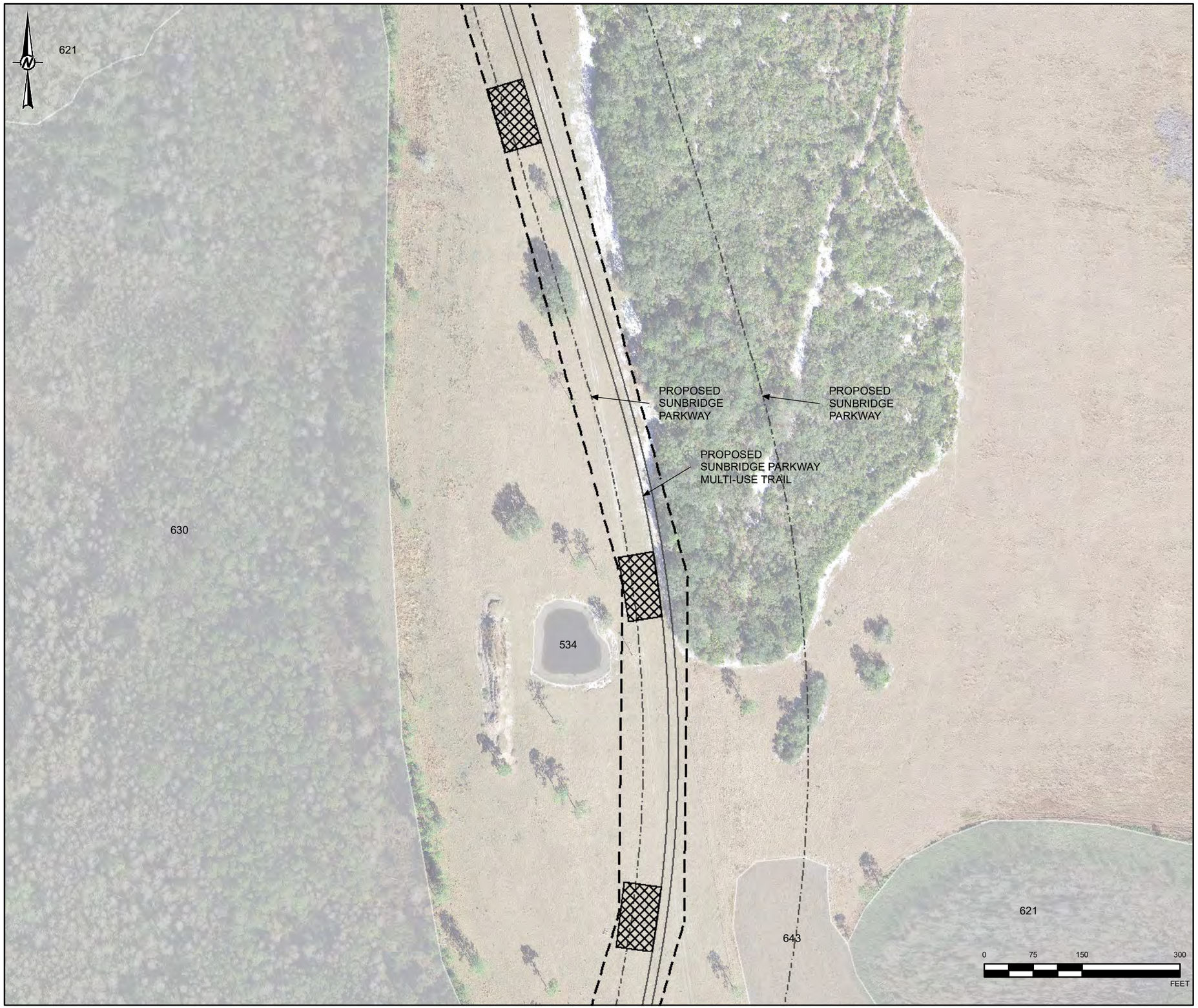

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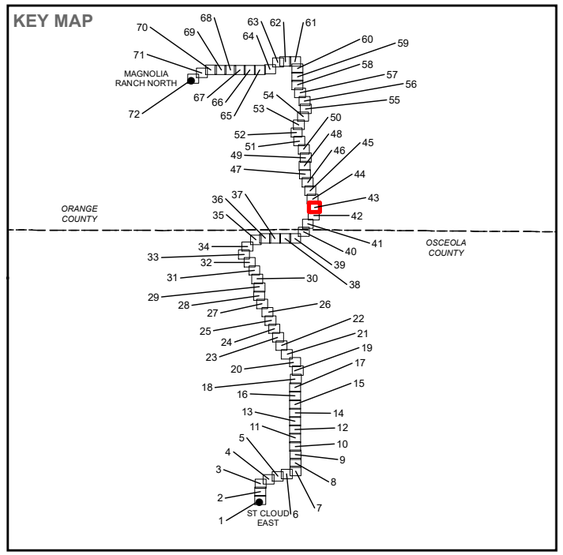

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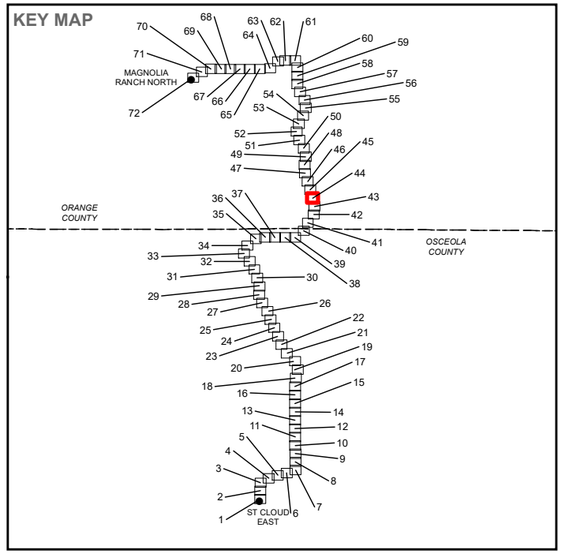

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- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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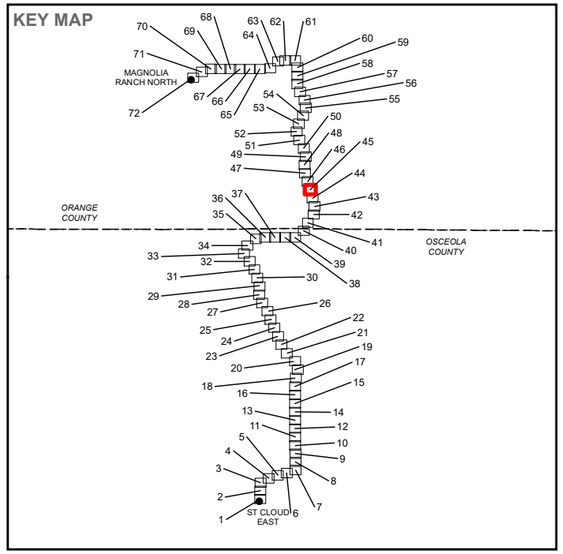

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- WETLANDS
  - 511 - DITCHES
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
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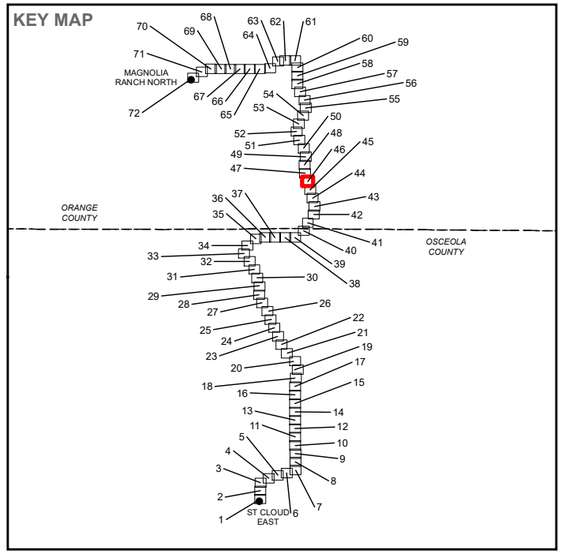
KEY MAP



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- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
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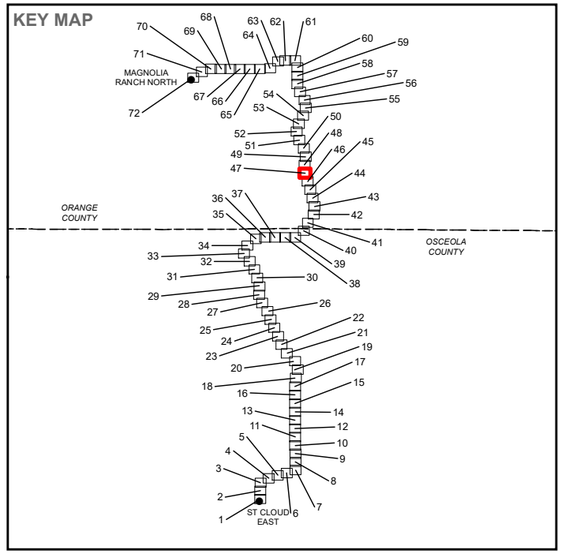

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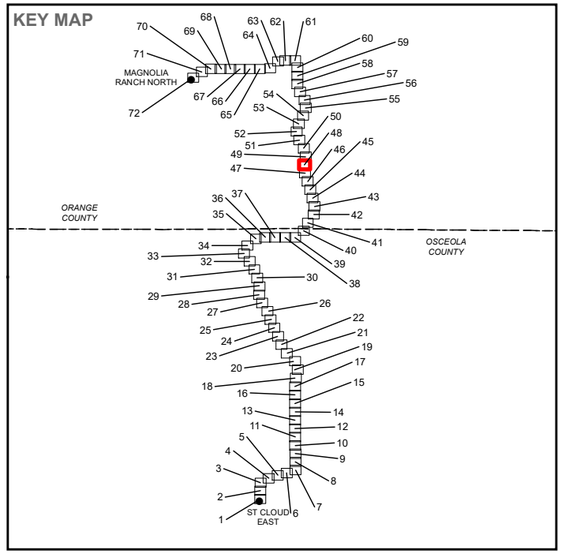

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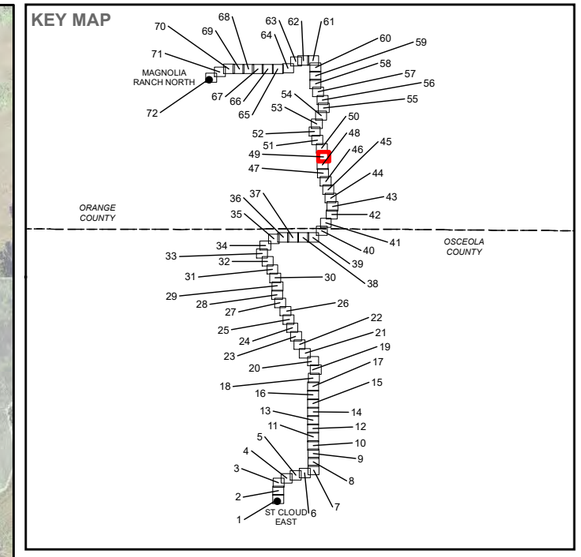
PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSAC_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 534 - RESERVOIRS LESS THAN 10 ACRES (4 HECTARES) WHICH ARE DOMINANT FEATURES
  - 617 - MIXED WETLAND HARDWOODS
  - 630 - WETLAND FORESTED MIXED

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
CONCEPTUAL LAYOUT AND WETLAND IMPACTS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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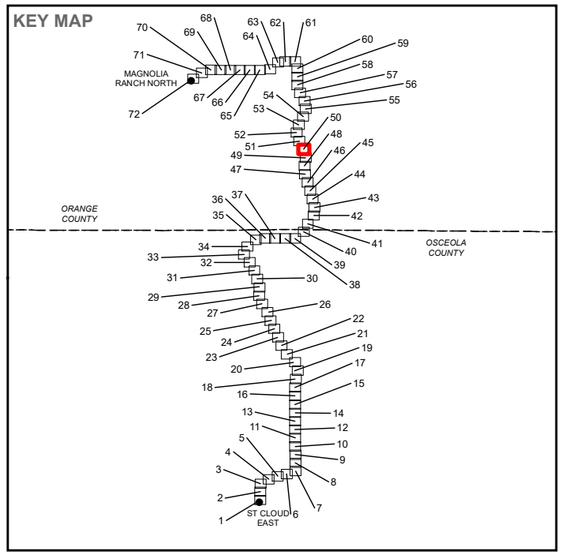
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- WETLANDS
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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ORLANDO UTILITIES COMMISSION

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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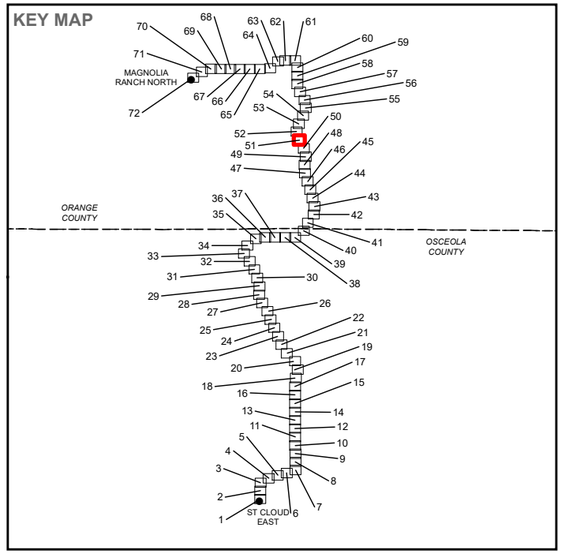
KEY MAP



LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 625 - HYDRIC PINE FLATWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
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CONCEPTUAL LAYOUT AND WETLAND IMPACTS

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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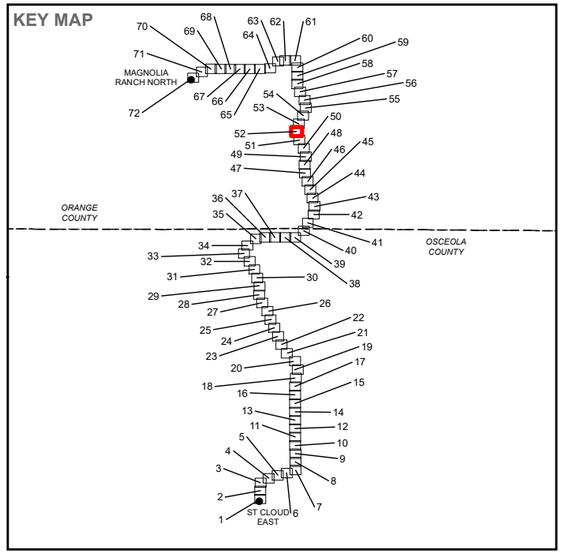

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- WETLANDS
- 511 - DITCHES
- 530 - RESERVOIRS
- 625 - HYDRIC PINE FLATWOODS
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

PATH: G:\Projects\OUC\StCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd

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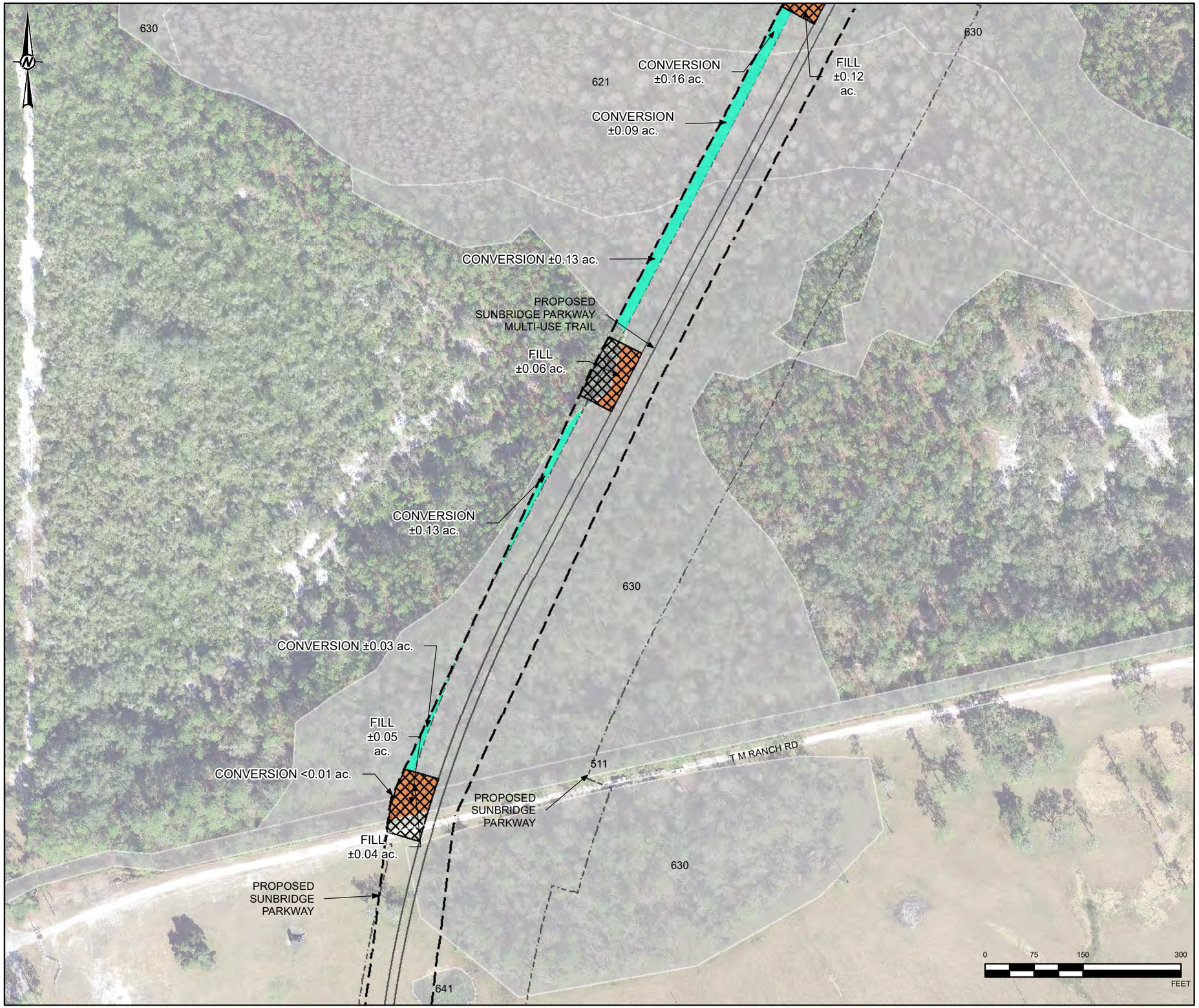

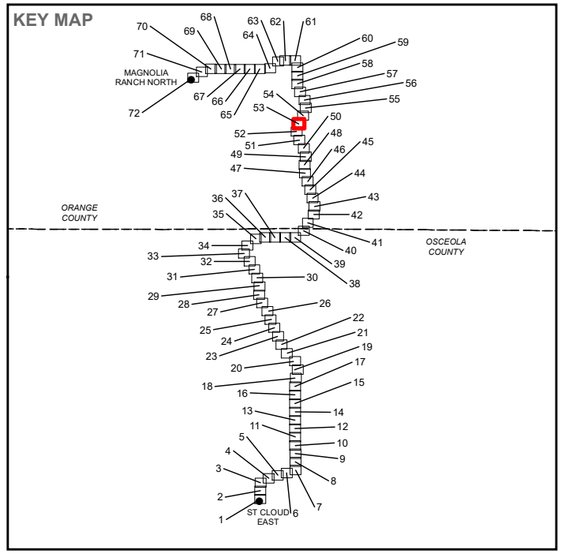

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 511 - DITCHES
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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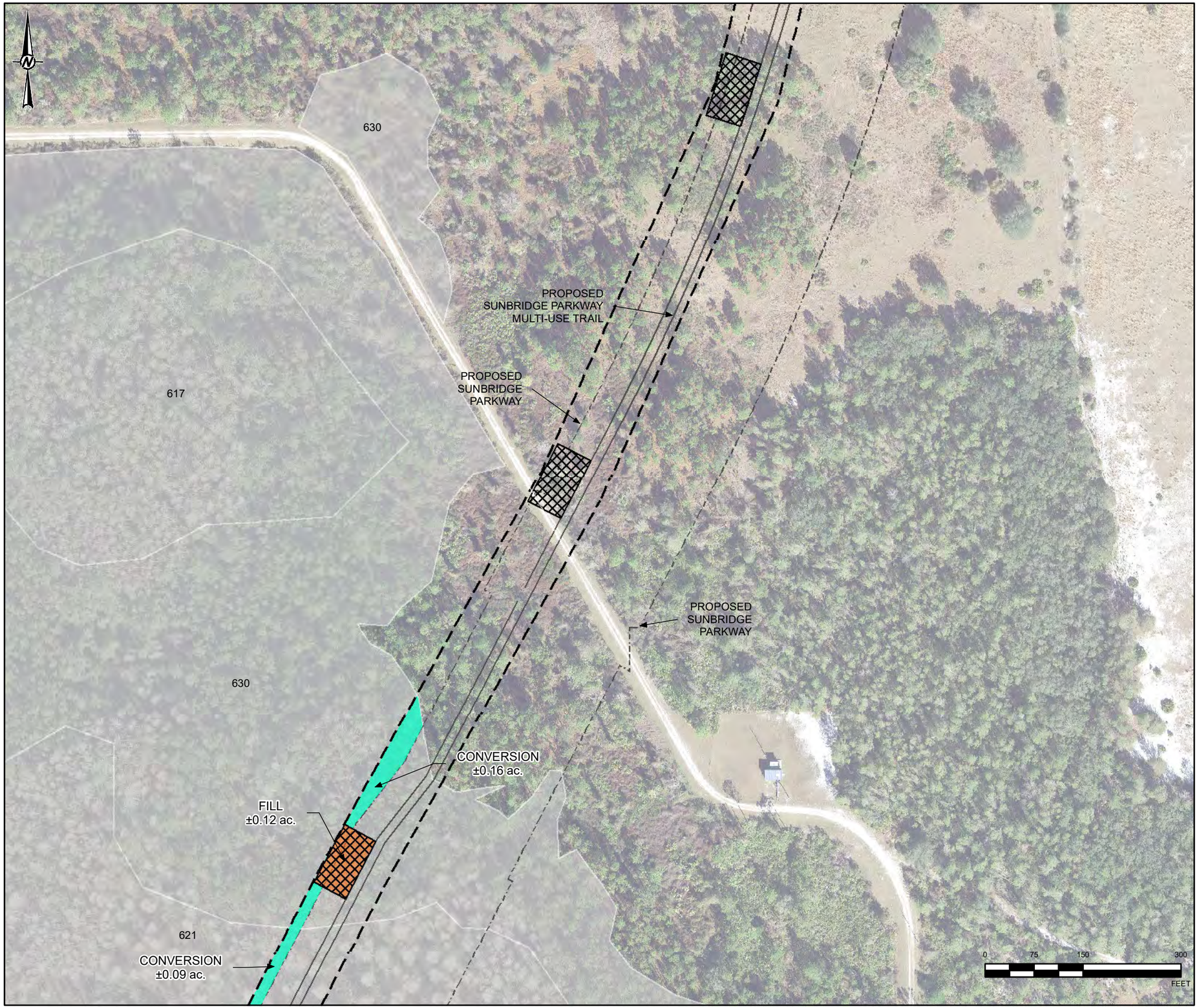

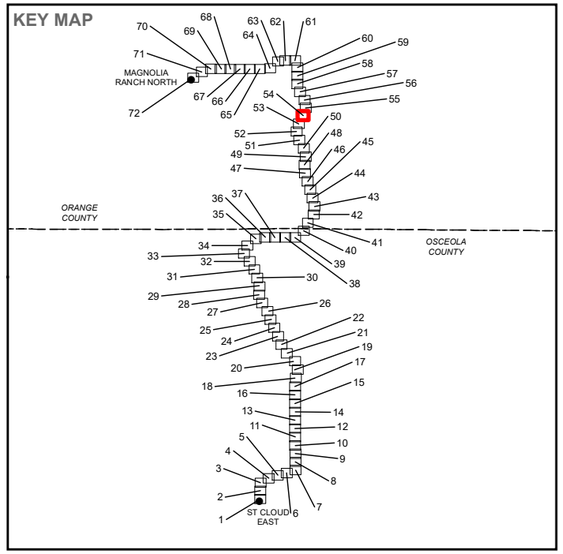

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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CONCEPTUAL LAYOUT AND WETLAND IMPACTS

CONSULTANT
OUC The Reliable One

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

PATH: G:\Projects\OUC\SBCloud_MagnoliaRanch_TransmissionLine\99_PROJECTS\19115515_TLSA\C_Permitting\02_PRODUCTION\MXD\19115515_C021_Wetland_Clearing_Impacts.mxd

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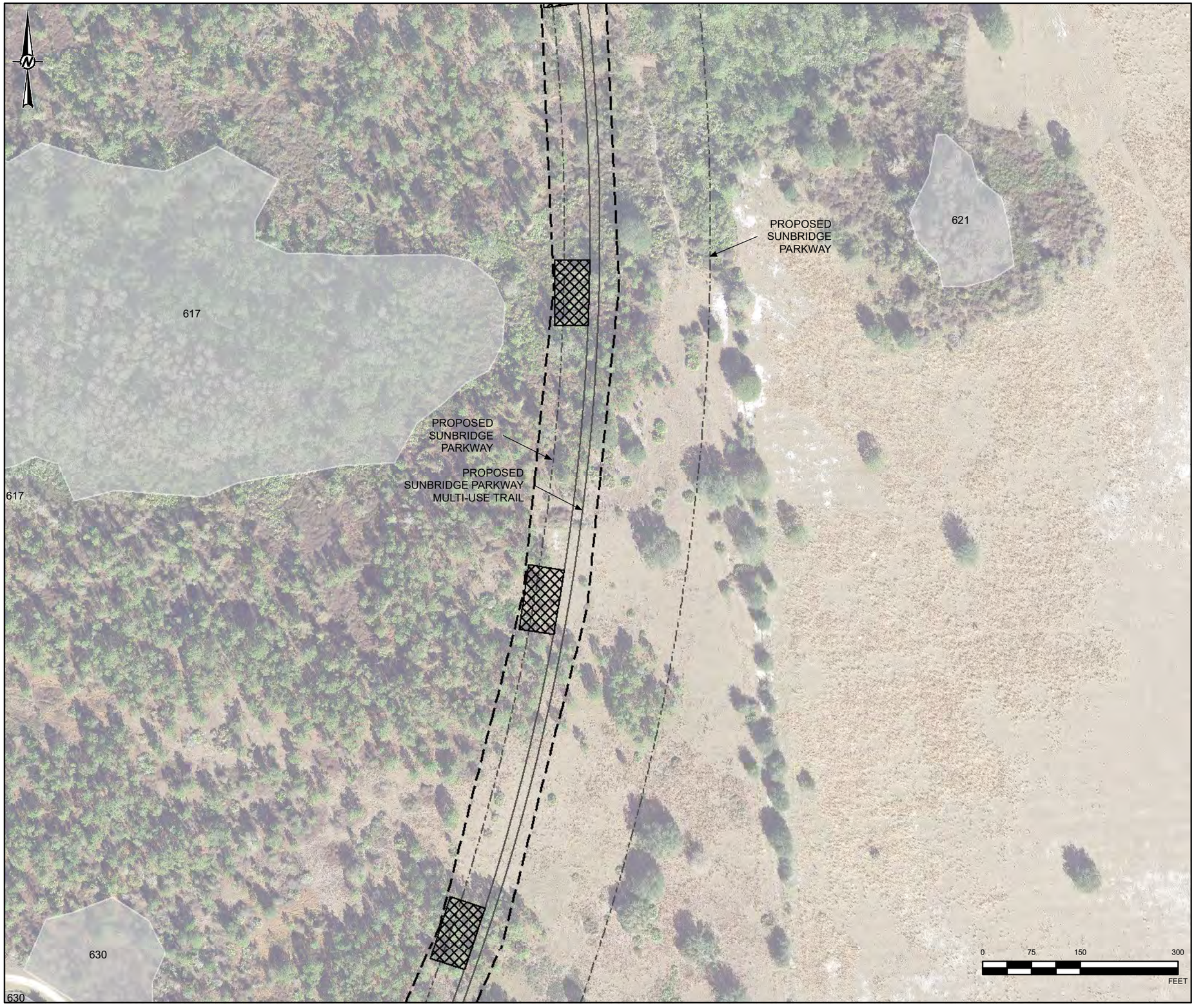

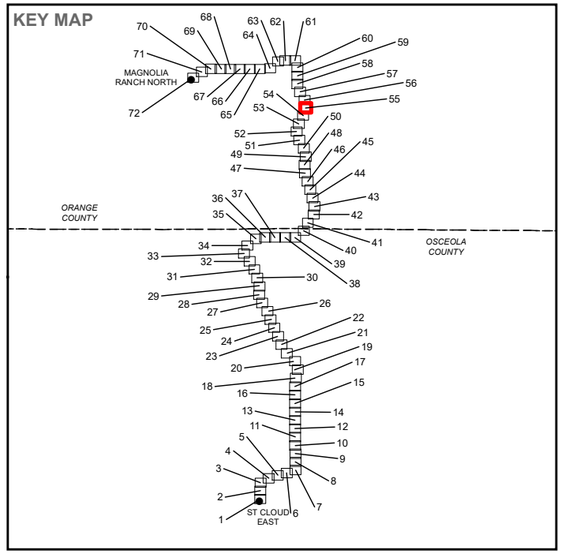

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- WETLANDS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

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CONCEPTUAL LAYOUT AND WETLAND IMPACTS

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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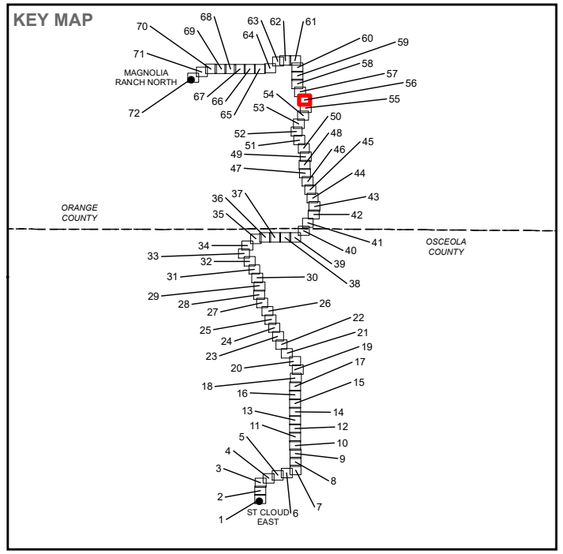

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- WETLANDS
  - 611 - BAY SWAMPS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 641 - FRESHWATER MARSHES
  - 646 - TREELESS HYDRIC SAVANNA

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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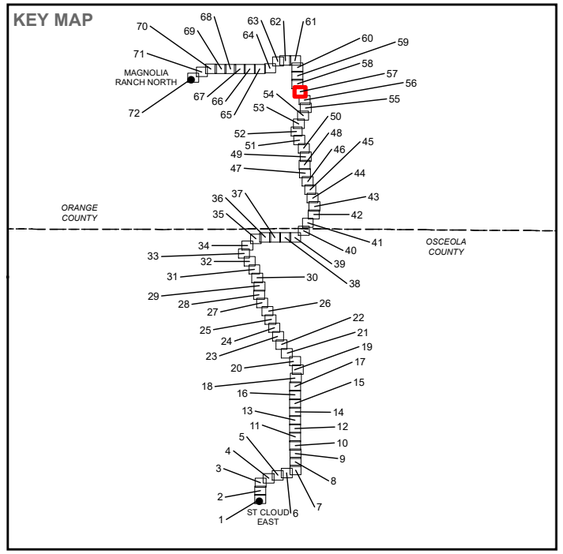

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
  - 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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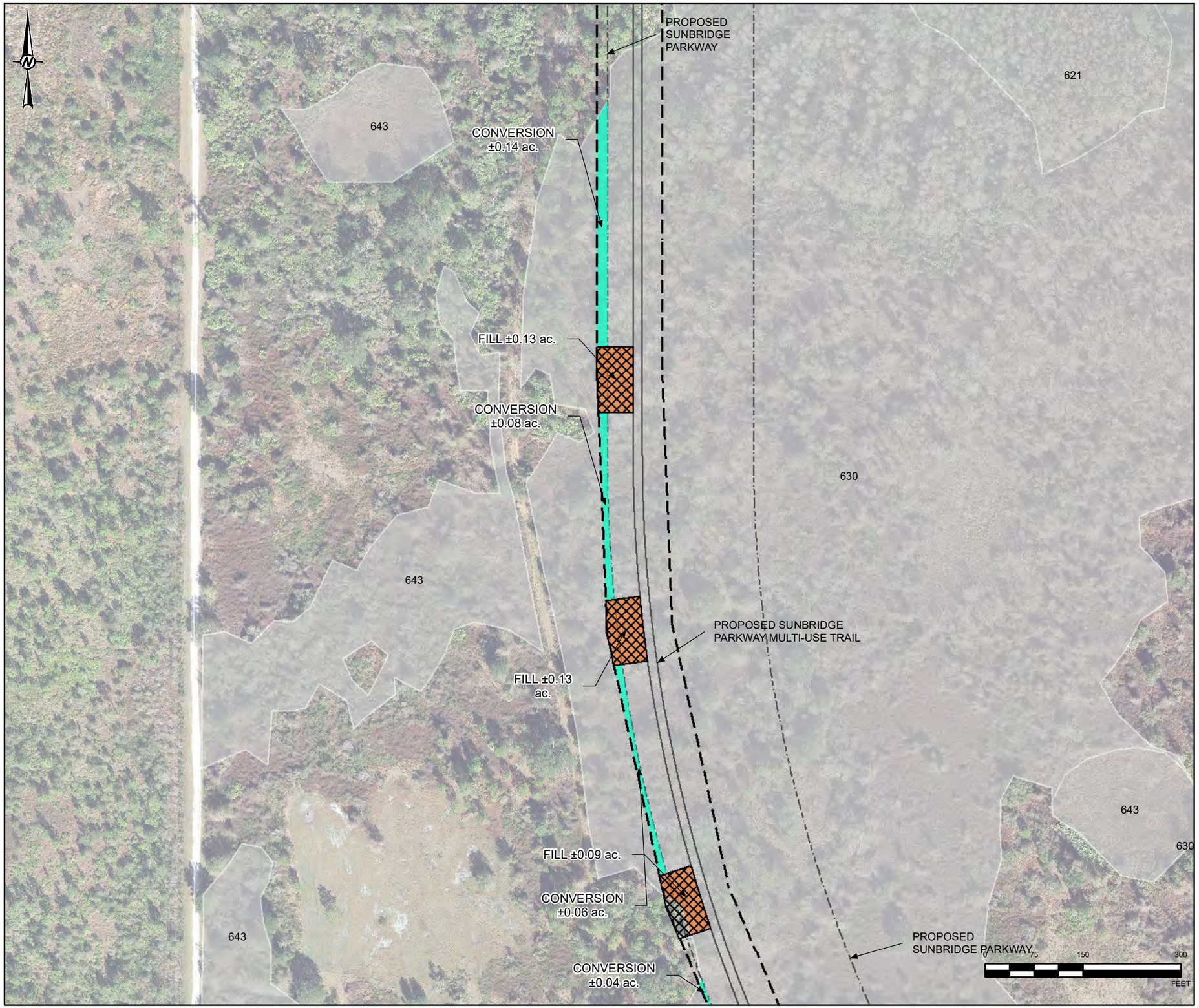

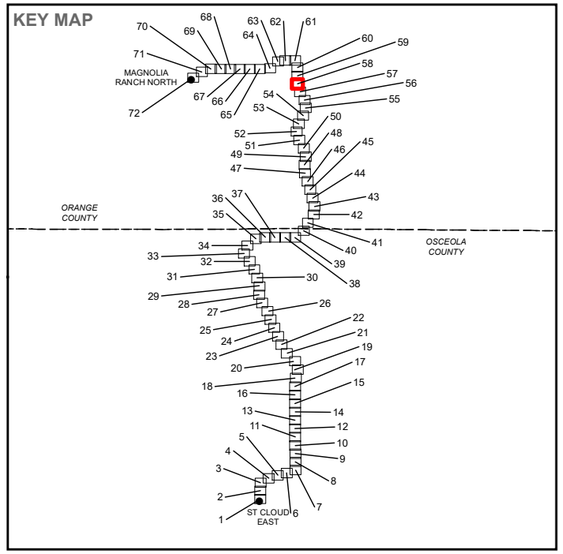

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
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4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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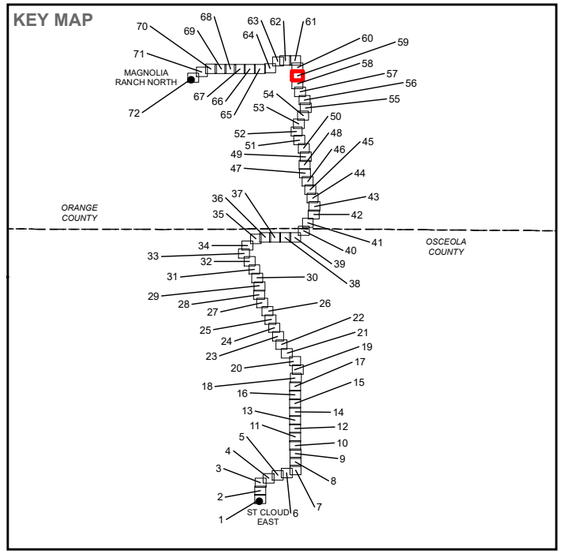

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
CONCEPTUAL LAYOUT AND WETLAND IMPACTS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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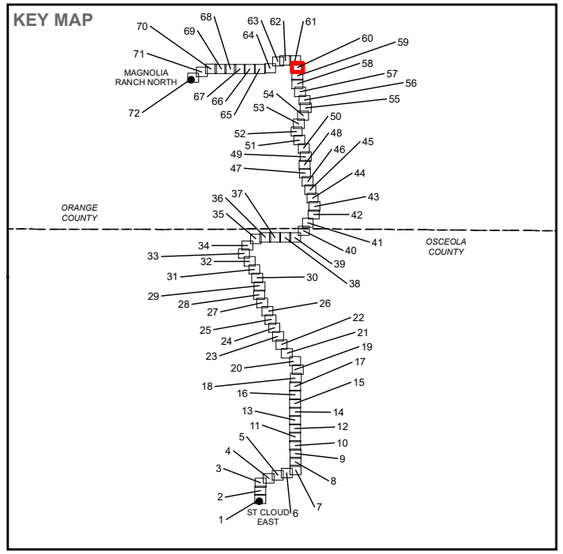

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- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
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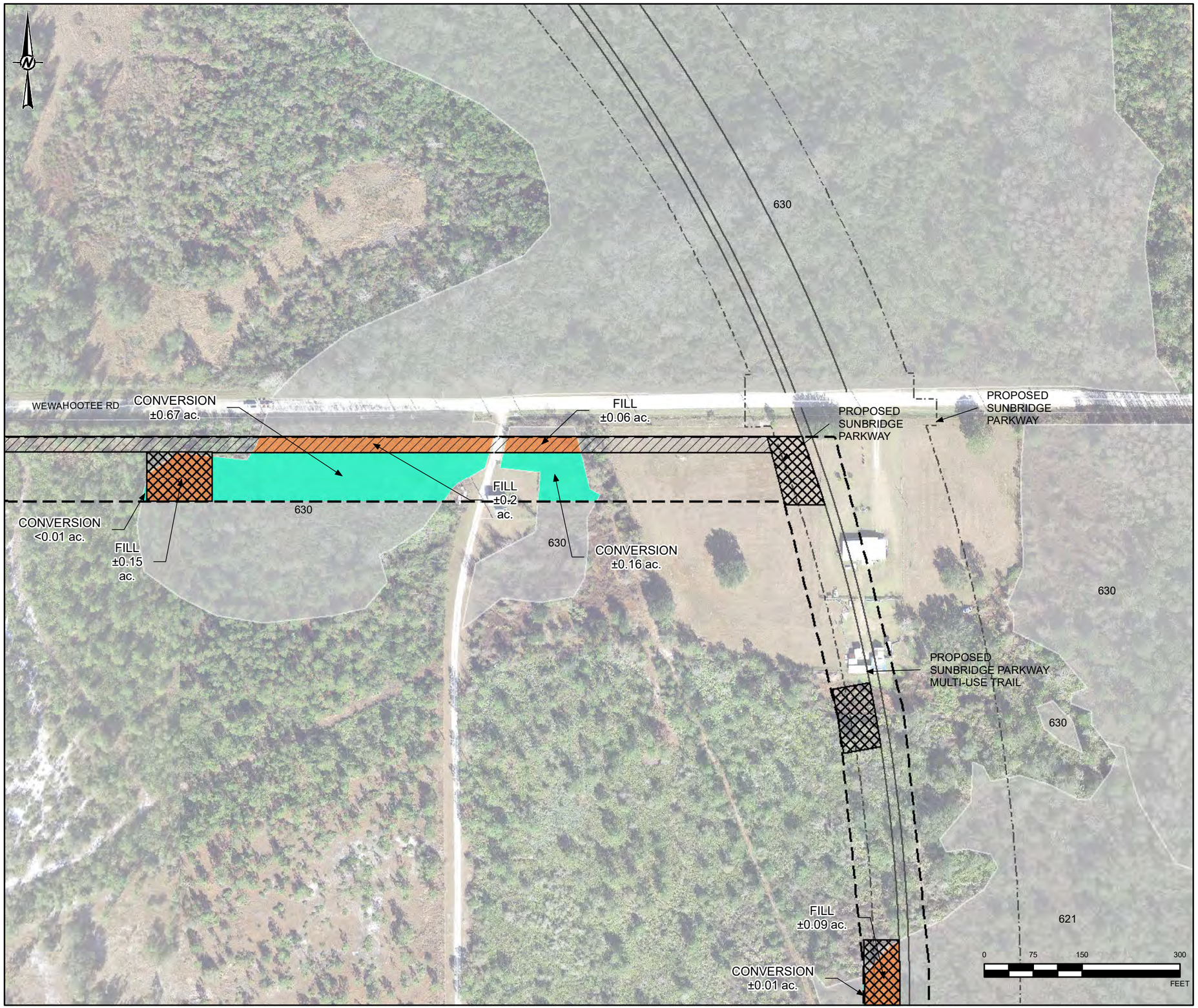

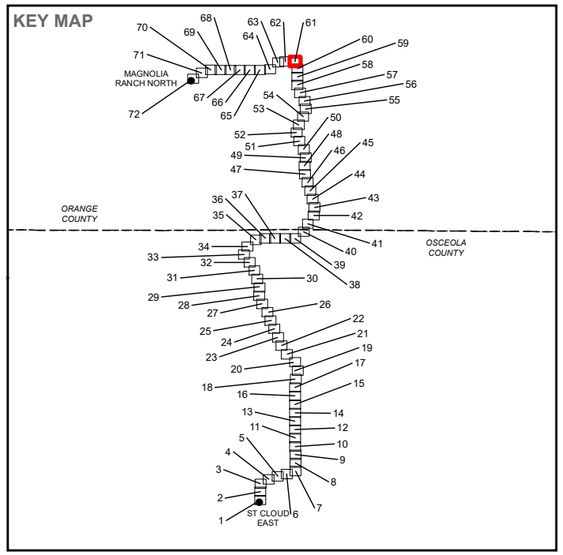

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- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED SUNBRIDGE PARKWAY
- PROPOSED SUNBRIDGE PARKWAY MULTI-USE TRAIL
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
  - 621 - CYPRESS
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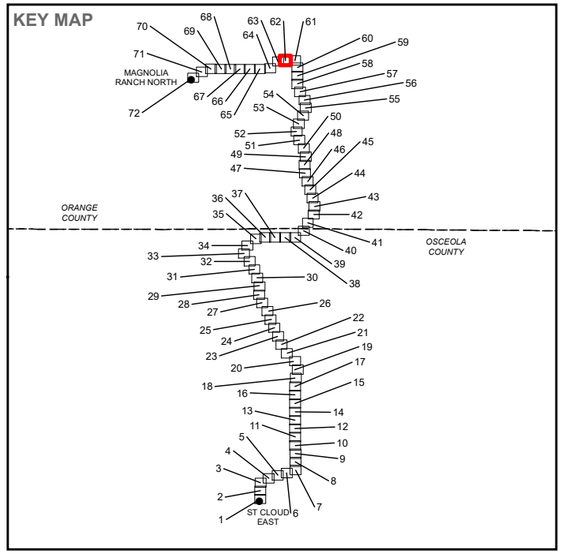

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- PERMANENT IMPACTS - FILL (±13.12 AC.)
- PERMANENT IMPACTS - CONVERSION (±24.90 AC.)
- WETLANDS
- 530 - RESERVOIRS
- 630 - WETLAND FORESTED MIXED

REFERENCE(S)

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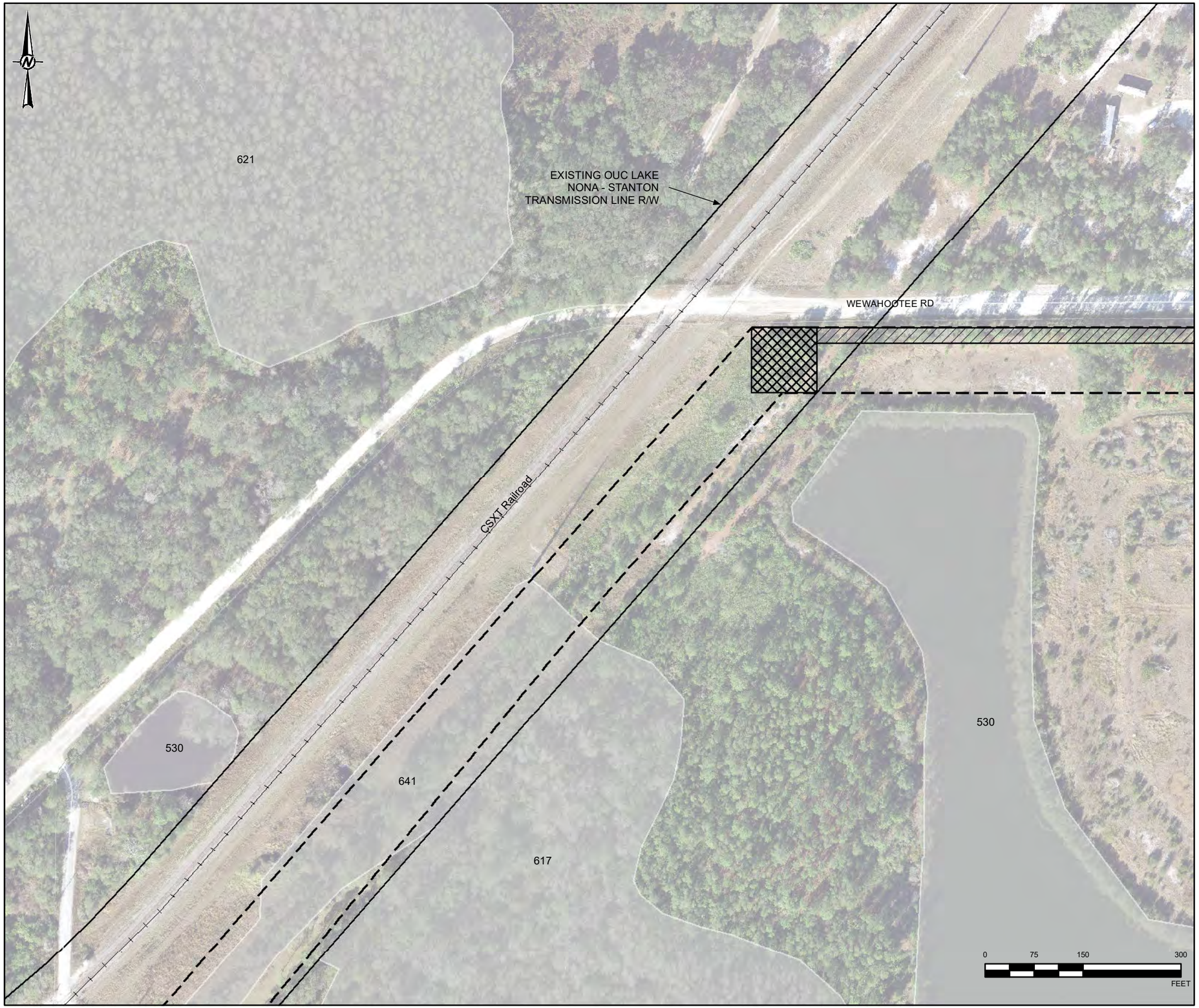

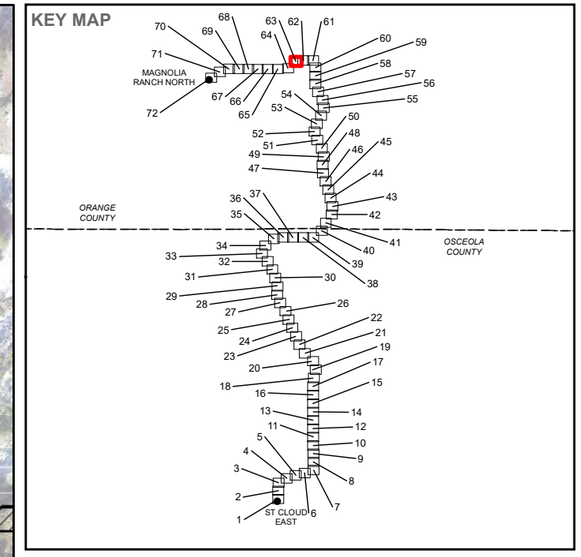

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- PROPOSED PAD WORKSPACES
- PERMANENT ACCESS ROAD
- WETLANDS
- 530 - RESERVOIRS
- 617 - MIXED WETLAND HARDWOODS
- 621 - CYPRESS
- 641 - FRESHWATER MARSHES

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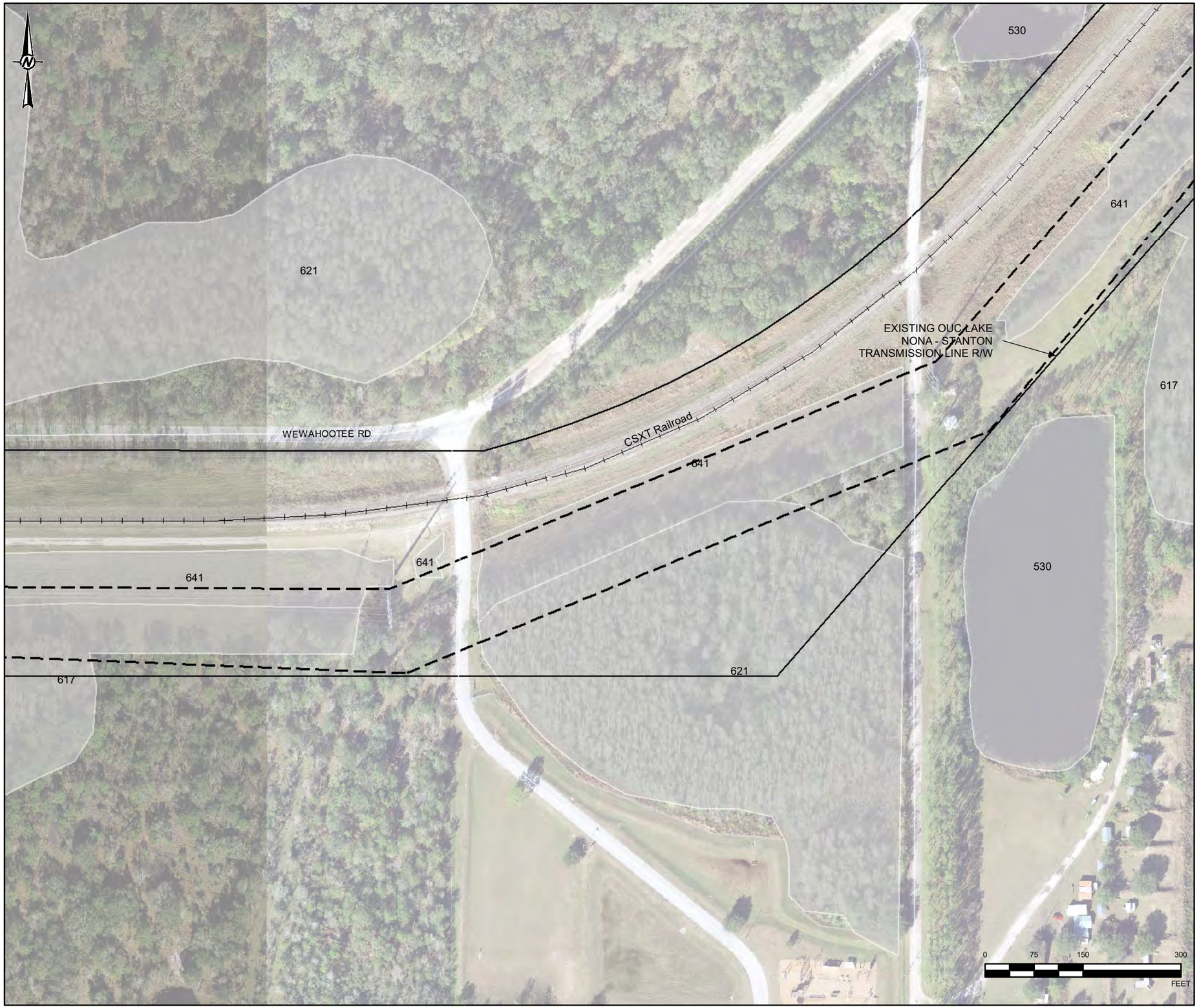

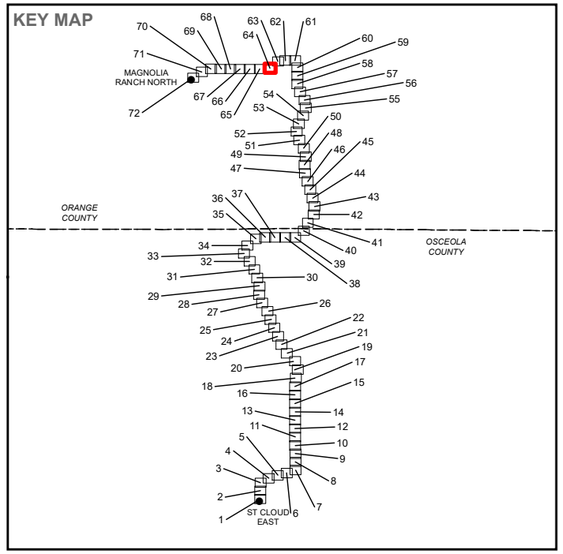

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 530 - RESERVOIRS
- 617 - MIXED WETLAND HARDWOODS
- 621 - CYPRESS
- 641 - FRESHWATER MARSHES

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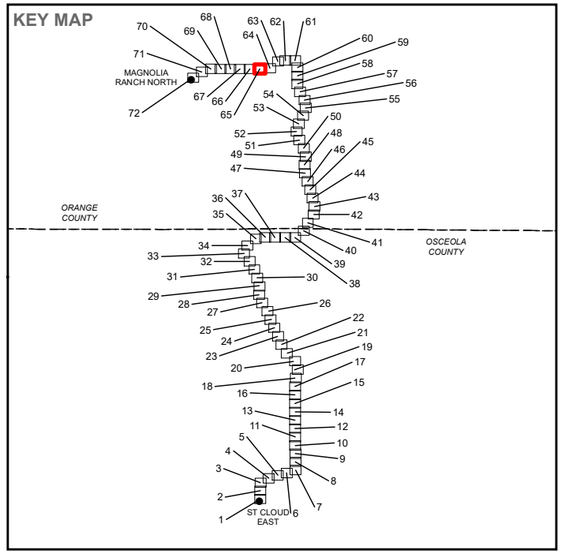

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 617 - MIXED WETLAND HARDWOODS
- 621 - CYPRESS
- 641 - FRESHWATER MARSHES

REFERENCE(S)

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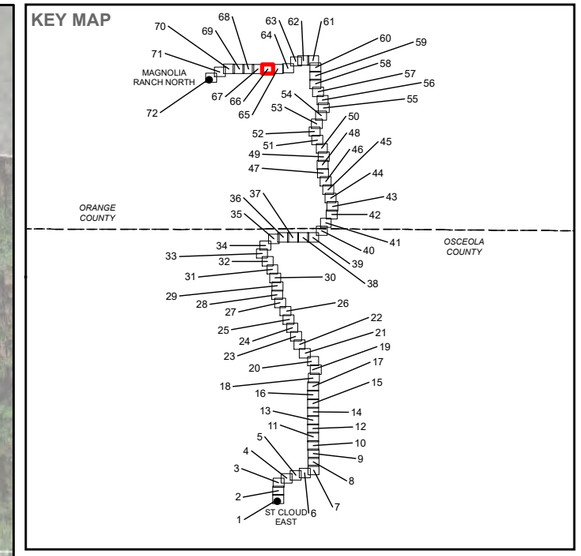

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
  - 617 - MIXED WETLAND HARDWOODS
  - 641 - FRESHWATER MARSHES

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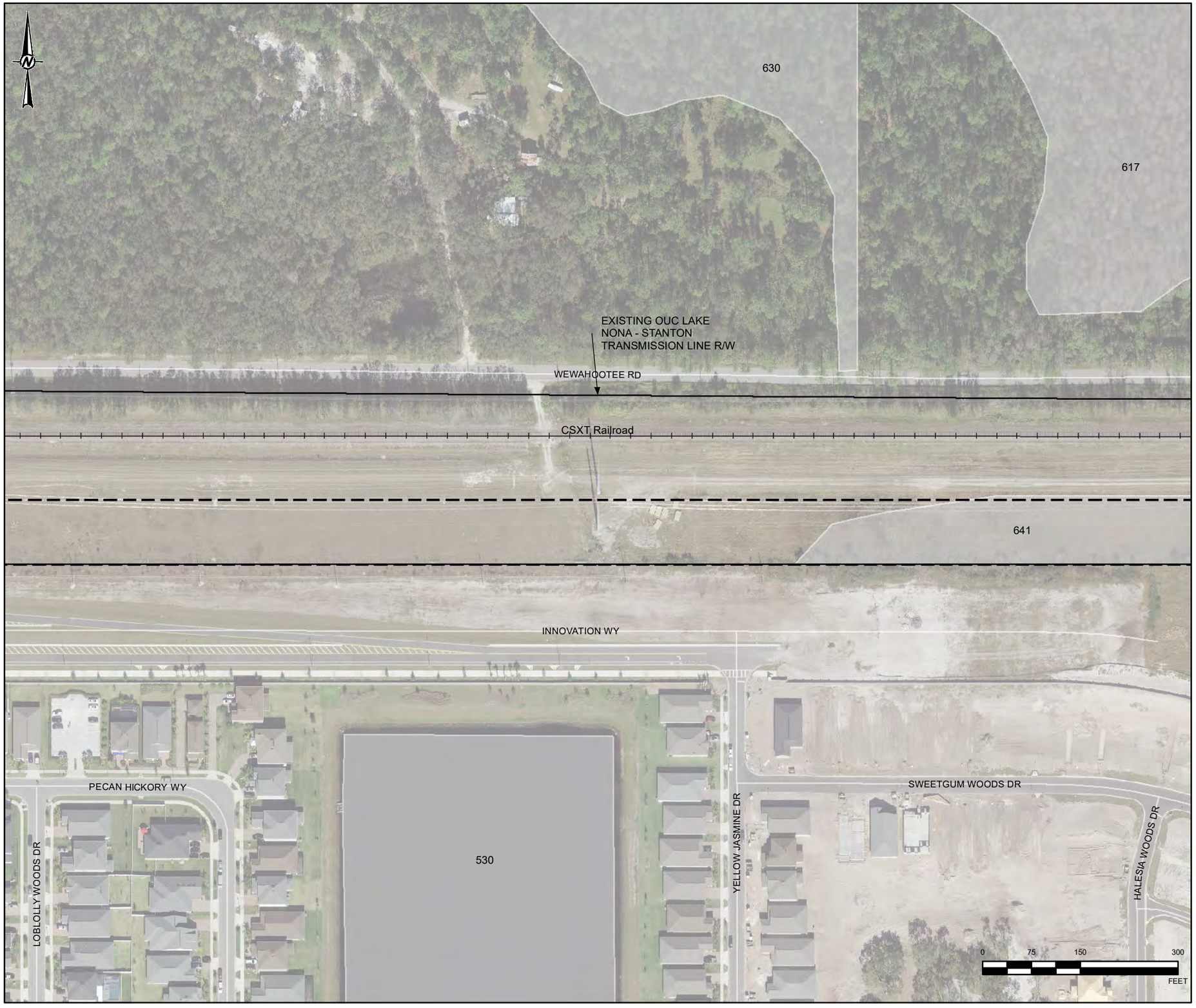

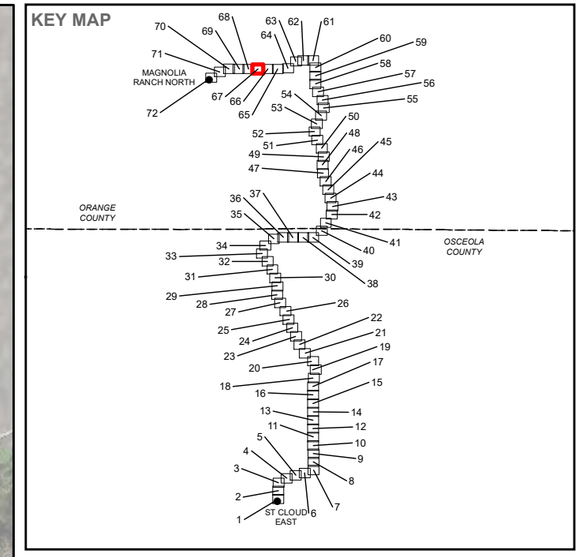

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 530 - RESERVOIRS
- 617 - MIXED WETLAND HARDWOODS
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES

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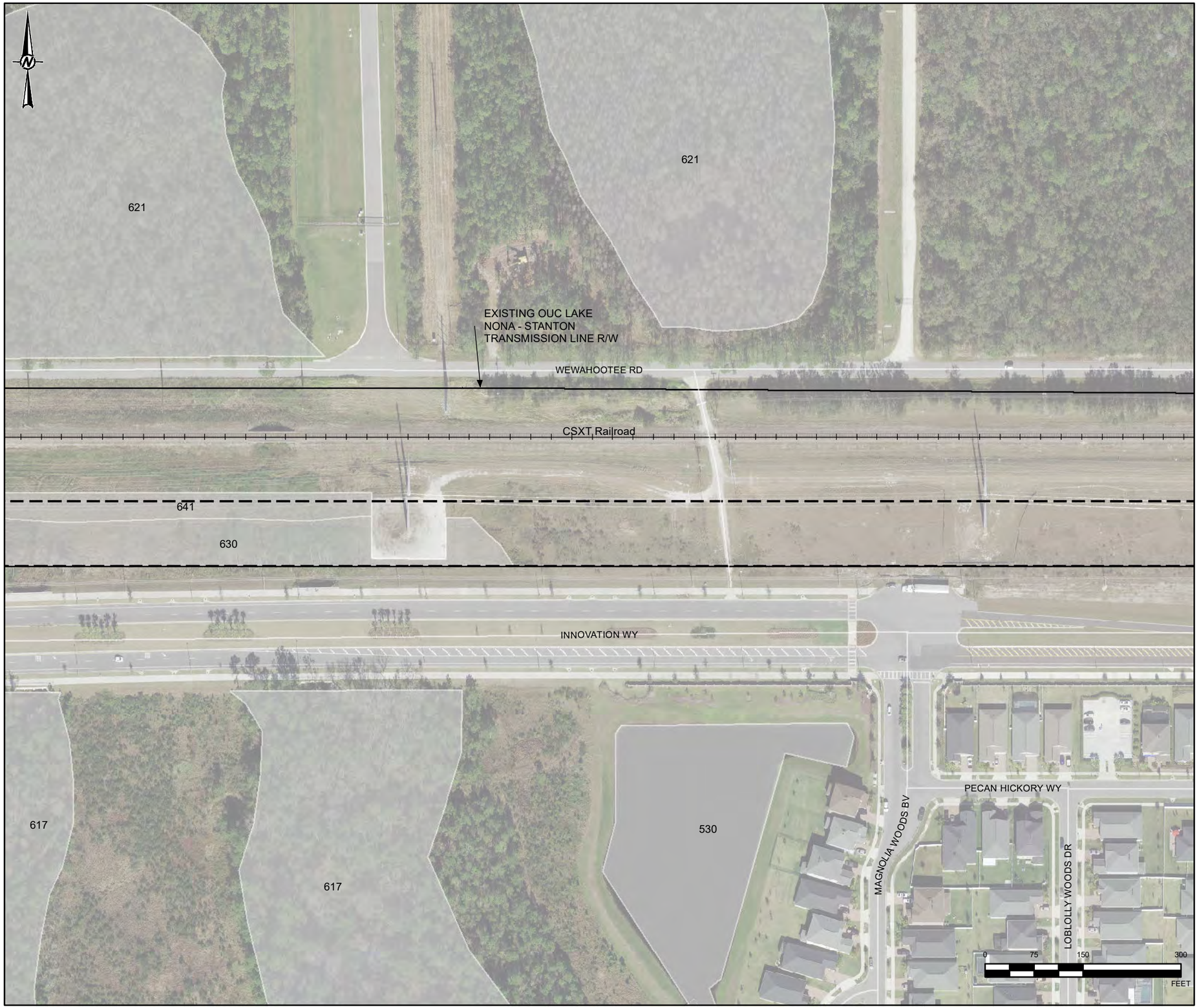

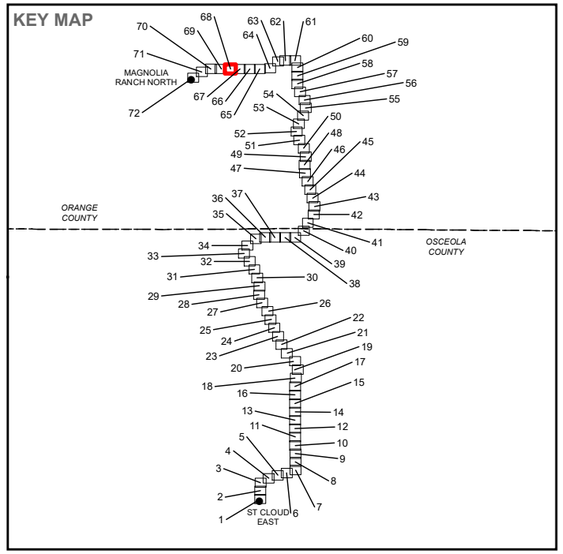

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- WETLANDS
- 530 - RESERVOIRS
- 617 - MIXED WETLAND HARDWOODS
- 621 - CYPRESS
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES

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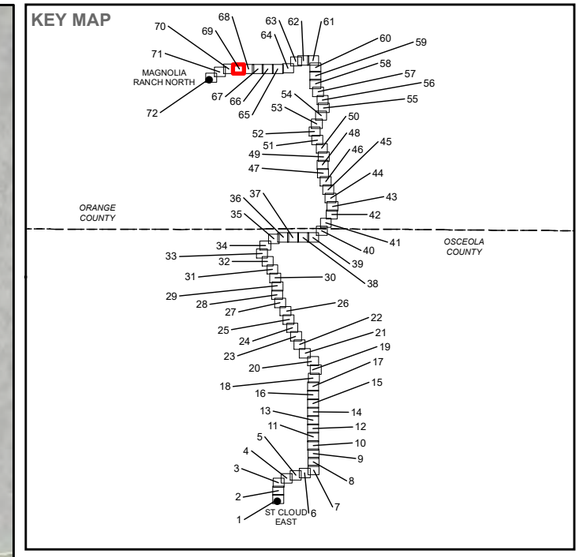

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
  - 511 - DITCHES
  - 530 - RESERVOIRS
  - 617 - MIXED WETLAND HARDWOODS
  - 621 - CYPRESS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
CONCEPTUAL LAYOUT AND WETLAND IMPACTS

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2021-06-04
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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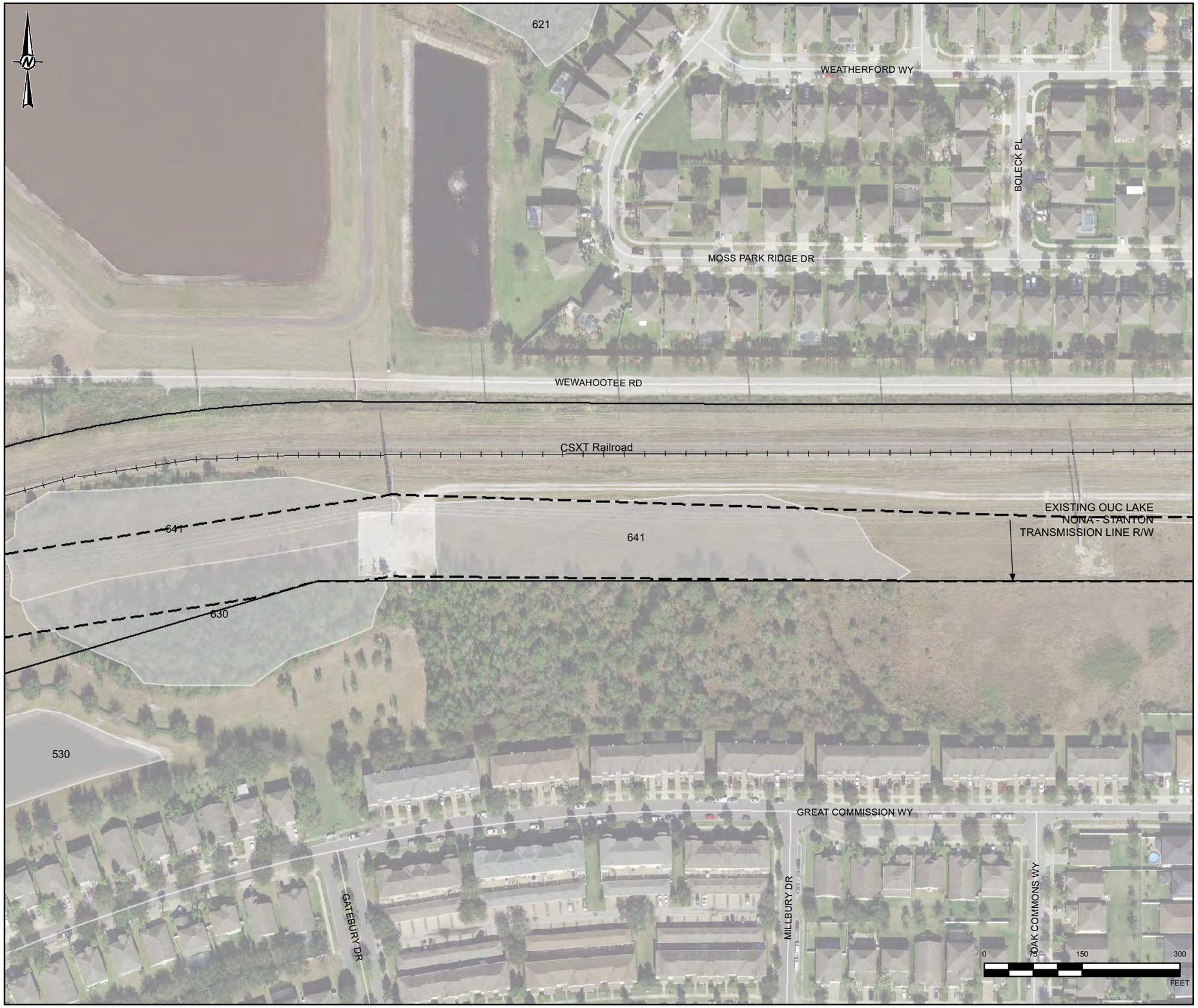

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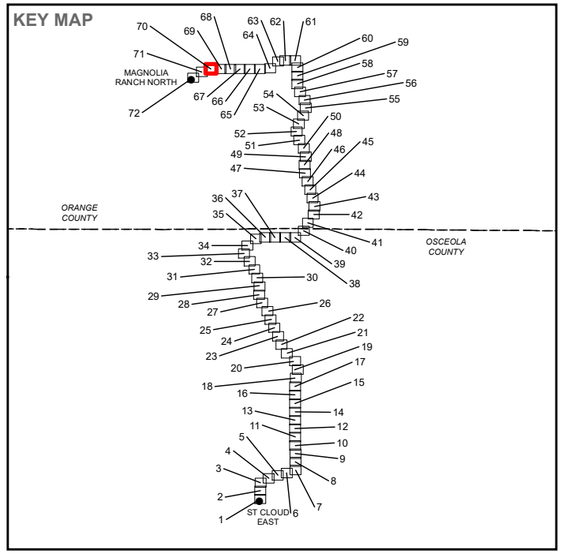

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 530 - RESERVOIRS
- 621 - CYPRESS
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

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PROJECTION: TRANSVERSE MERCATOR
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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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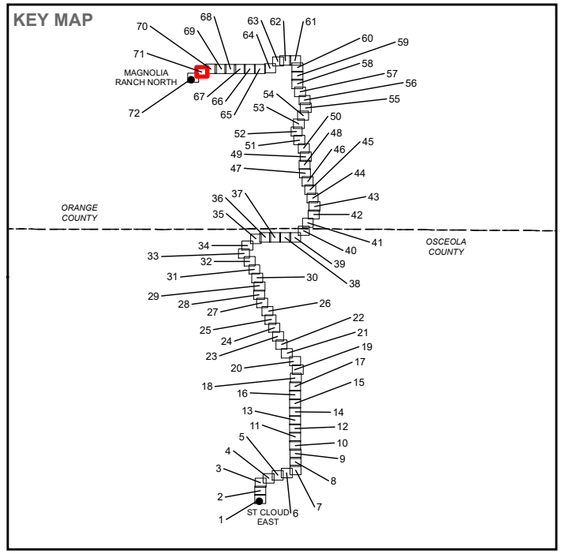

LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
- 530 - RESERVOIRS
- 617 - MIXED WETLAND HARDWOODS
- 630 - WETLAND FORESTED MIXED
- 641 - FRESHWATER MARSHES
- 643 - WET PRAIRIES

REFERENCE(S)

1. EXISTING TRANSMISSION LINE ROW, EXISTING SUBSTATIONS, OUC, 2019
2. PROPOSED PAD WORKSPACES, PROPOSED ROW, ACCESS ROAD, OUC & GOLDER, 2019-2021.
3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
5. RAILROAD, FLORIDA DEPARTMENT OF TRANSPORTATION, 2017.
6. SERVICE LAYER CREDITS:

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
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DATUM: NORTH AMERICAN 1983

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PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C021	0	3-1

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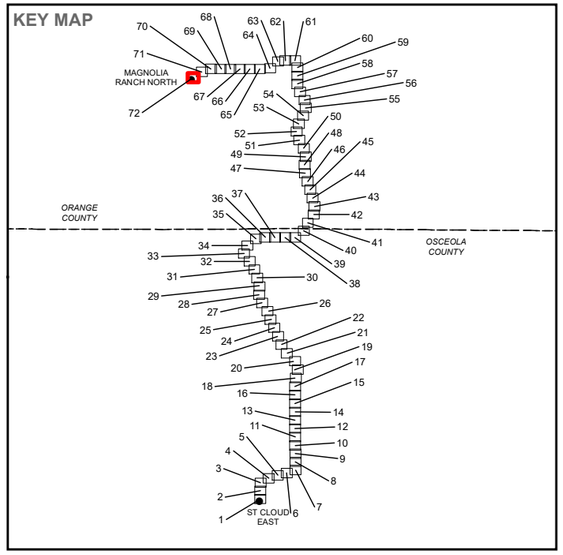
IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

KEY MAP



LEGEND

- PROPOSED ST. CLOUD EAST - MAGNOLIA RANCH NORTH 230KV TRANSMISSION LINE R/W
- WETLANDS
  - 511 - DITCHES
  - 617 - MIXED WETLAND HARDWOODS
  - 630 - WETLAND FORESTED MIXED
  - 641 - FRESHWATER MARSHES
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3. WETLAND IMPACTS, GOLDER, 2020-2021.
4. WETLAND AREAS, SJRWMD, SFWMD, GOLDER, 2020.
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4.0 POST-CONSTRUCTION IMPACTS AND EFFECTS OF MAINTENANCE

4.1 Maintenance Techniques

Safe and reliable operation of the new transmission line will be maintained through regular inspections of the poles, conductors, insulators, hardware, access areas, and vegetation in proximity to these facilities. Electric transmission lines normally require minimal maintenance; however, OUC will inspect the transmission lines on a regular basis to look for problems caused by weather, vandalism, vegetation regrowth, etc. The inspections will consist of ground patrols in trucks and/or aerial patrols in airplanes or helicopters.

In general, maintenance of the ROW will consist of mowing, pruning, and the removal of conflict timber, as well as herbicide treatments. Maintenance of the ROW will be consistent with the ROW clearing described in Section 3.1.1. This approach will allow ROW maintenance in wetland areas to be performed while encouraging the growth of low-growing woody and herbaceous vegetation that will not exceed 15 ft in height at maturity. Care will be taken not to cause unnecessary damage to vegetation in these environmentally sensitive areas. OUC will manage vegetation within the ROW by a variety of methods, including trimming, mowing, and the use of approved herbicides by approved applicators in accordance with federal and state regulations, targeting species that are incompatible with the safe operation and maintenance of the transmission system. The exact way maintenance will be performed will depend on the location, type of terrain, and surrounding environment. Vegetation removal will be minimized, except to the extent necessary to ensure the safe and reliable operation of the line. Any vegetation that could restrict access along the ROW will be removed, while other species generally will be allowed to remain, resulting in a shrubby and herbaceous cover within the ROW. This maintenance regime will allow a broad diversity of vegetation, which will enhance the potential for wildlife to use the ROW. OUC's ROW maintenance program is very site-specific, and a maintenance "prescription" is often detailed down to the individual pole spans. Each area of the ROW will be addressed based on site-specific vegetation and habitat. Threatened or endangered species, if present, will be considered and accommodated in the maintenance program.

Some vegetation maintenance activities outside the ROW are occasionally necessary. To enhance the safe and reliable operation of the proposed transmission line, OUC may trim or remove conflict timber outside the OUC ROW in coordination with the adjacent property owner(s). Conflict timber includes trees capable of falling or leaning into the conductors or, in areas of wildfire hazard, other vegetation that may provide excessive fuel loading in proximity to the transmission lines.

Maintenance of the transmission line will be performed using various types of equipment. This equipment may consist of helicopters, bucket trucks, cranes, semi-trucks, and support vehicles. Typical line maintenance operations may include insulator replacements, conductor repairs, OHGW repairs, grounding and other activities associated with the structures, conductors, and foundations. In general, OUC crews or authorized contractors will mobilize in line trucks capable of supporting various operations. Once on site, the crew will establish a safe working area and perform the required repair.

When maintenance is required in environmentally sensitive areas, temporary matting may be employed to minimize impacts to the areas during repairs.

4.2 Multiple Uses

Multiple uses within a transmission line ROW typically can include agricultural operations (e.g., grazing and row crops), controlled landscaping, and other activities that do not interfere with OUC's use and access of the ROW for the safe and reliable operation and maintenance of the transmission line. In areas where the new transmission line will be located within an existing transmission line ROW, multiple uses consistent with those currently allowed will generally be acceptable.

In most cases, OUC obtains an easement for the construction, maintenance, and operation of its transmission line, as well as the rights of ingress and egress to that line, from another party who retains the fee-simple interest in the property. The easement may provide for acceptable use of the ROW by the fee owner for activities that do not interfere with OUC's full use of its easement and the function of the transmission line facilities. In some cases, OUC may purchase the fee interest in the ROW. If OUC owns the ROW, all rights to the property will be held by OUC. If a third party wishes to use the OUC-owned property, a license agreement may be negotiated, allowing for activities that do not interfere with OUC's full use of the ROW and the function of the transmission line facilities.

4.3 Changes in Species Populations

The co-location of the Project with existing transmission line ROWs and existing and proposed roadways greatly reduces the potential for impacts to undisturbed vegetative communities and wildlife habitat. As described in Section 3.4, no significant impacts to any species or significant changes in local or regional populations are anticipated during construction of the Project. Similarly, changes in species populations are not expected due to the operation and maintenance of the transmission line. Individuals that may be temporarily displaced from the ROW during construction are likely to return following construction. No animal or plant species are expected to be permanently displaced from the ROW or vicinity because of the construction, operation, or maintenance of the Project.

4.4 Effects of Public Access

It is OUC's policy to provide locked gates at the point where a transmission line access road intersects previously fenced property. Since OUC will install locked gates at any location that is currently fenced, no increased vehicle access is anticipated following construction, except by OUC personnel performing routine inspection and maintenance. Where structures are placed adjacent to an existing roadway, maintenance of the line will have no additional impact on public access to the adjacent properties. No impacts to environmentally sensitive areas or resident wildlife populations from additional public access are expected.

4.5 Electric and Magnetic Field Effects

The Project will comply with the Florida EMF regulations specified in Section 62-814, F.A.C. (the EMF Rule). The strength of the magnetic field under a transmission line is primarily a function of the amount of current carried by the line and the height of the conductors above the ground. The electric field is primarily a function of the voltage impressed on the transmission line and conductor height above ground. The electric field near the transmission line is relatively constant over time, but the magnetic field fluctuates depending on level of current flowing through the conductors.

The strength of the electric and magnetic fields produced by the Project were calculated in accordance with the requirements of Section 62-814.460, F.A.C., based on the conceptual designs provided in this Application. These calculations demonstrate that the fields associated with the new transmission line will comply with the standards set forth in the Florida EMF rule, as shown in Table 4-1. Although the current carried by the transmission line will vary throughout the day, the value used in the calculations is the maximum quantity of electric current that can be continuously carried on the conductor, as required by Chapter 62-814, F.A.C. If additional configurations are required by the detailed design of the transmission line after certification, OUC will provide additional EMF compliance demonstrations to FDEP as a post-certification submittal prior to the start of construction.

4.5.1 Audible Noise

The audible noise associated with a transmission line is generated by either corona from the conductors or from gap-type discharges. Gap noise is typically due to faulty or failed hardware and easily corrected. Corona is a phenomenon that occurs when there is an irregularity on the surface of the conductor, such as buildup from fog, water droplets, or significant particulate matter. Corona activity at the surface of the conductors produces a low-level audible noise that is a slight humming sound. Under wet conditions, higher audible noise levels are experienced than will occur under dry conditions. However, background noise from various sources (e.g., inclement weather, traffic, agricultural activity, etc.) has the effect of generally masking transmission line noise outside the ROW.

Audible noise calculations were performed for a typical transmission line cross-section using corona field effects software produced by the Bonneville Power Administration (BPA), U.S. Department of Energy. This software provides estimated median (L50) noise levels for fair and rainy weather as a function of distance from the edge of ROW for the modeled transmission line configurations.

During fair weather and under normal operating conditions, the audible noise levels calculated for the Project designs will be comparable to the ambient outdoor noise levels. Table 4-2 presents the maximum audible noise levels that may be produced by the Project. For a small portion of time, when the conductors are wet from rainfall or heavy fog, the transmission line noise will increase. Nonetheless, the noise levels produced by the Project will be relatively insignificant.

Radio and Television Interference

Electrical noise in the radio frequency range can be produced by corona on transmission line conductors or by gap-type discharges on transmission line hardware. Corona noise is most significant in the lower frequencies such as those used for amplitude modulation (AM) radio broadcasting. Noise from gap-type discharges, on the other hand, extends to higher frequencies (peak levels are in the 30 to 100-megahertz (MHz) range) and can be a source of interference with television broadcast reception. Since the transmission lines will be constructed with new hardware, gap-type discharges are not anticipated to occur. Should a gap-type discharge develop on a damaged, defective, or improperly installed piece of hardware and lead to interference, the hardware causing the gap-type discharge will be located and repaired or replaced.

Corona, which can occur on high-voltage transmission lines, produces electromagnetic (EM) noise. When this noise is sufficiently strong, it can cause interference with broadcast radio and television signals. Since corona is enhanced by water vapor, the magnitude of this noise is greater during wet or rainy periods than during dry or fair-weather periods.

Broadcast signals in the AM radio band and two television bands (very-high frequency [VHF] and ultra-high frequency [UHF] bands) are susceptible to this potential interference. Electromagnetic (EM) noise from corona is not expected to cause interference with frequency-modulated (FM) radio, cable or satellite television systems, cellular telephones, GPS, home cordless telephones, or wireless networking.

In general, the EM noise from transmission line corona decreases with increasing distance from the ROW and with increasing noise frequencies (shorter wavelengths). Thus, interference effects are greatest immediately adjacent to the ROW and at the lower broadcast frequencies.

Due to the rural nature of the transmission line route and the conservative method used to calculate the Project's impacts, the overall impact to radio or television reception is expected to be minimal, with the main potential for impact being the AM radio band. Should any entity experience interference because of the proposed transmission line, OUC will work with the entity to resolve the interference issue.

4.6 Induced or Conducted Ground Currents

Induced currents produced by the proposed transmission line will be at safe limits and in compliance with the Florida EMF rule for field magnitudes on the ROW and at the edge of the ROW. Electric field limits guard against startle shocks that can occur when contacting other objects beneath the line. Furthermore, minimum vertical clearances for the lines are designed to meet the NESC requirements for 5 milliamperes or less of short-circuit current (i.e., induced current due to electric fields) when the largest anticipated vehicle or equipment is situated directly under the line.

Each of the proposed structures will be grounded to minimize the induced ground currents and distribute ground fault currents. Each structure will have an electrical connection between the shield wire and ground lead that will be connected to ground rods. Ground resistance tests will be made at each structure before the shield wire is electrically connected to the ground lead. A sufficient ground rod will be installed to reduce the resistance to 10 ohms or less under normal atmospheric conditions. OUC standards require that fences and gates either crossing or parallel to and within the transmission line ROWs be grounded to mitigate shock hazard. OUC will provide this grounding as part of its routine construction activities.

4.7 Safety

OUC's transmission line facilities are designed to comply with all applicable codes, guidelines, and standards. The primary code used in the design of transmission lines is the NESC, 2017 edition. The NESC is an American National Standards Institute standard that covers electrical clearances and loading and strength requirements, including extreme wind. Codes and standards of other agencies and standards organizations that provide rules, guidelines, and conditions not specified by the NESC, were used to design the Project and include:

- Occupational Safety and Health Administration (OSHA) rules regarding safe minimum approach distances
- American Society of Civil Engineers (ASCE) Manual 74, Guidelines for Electrical Transmission Line Structural Loading, and Standard 48-05, Design of Steel Transmission Pole Structures
- American Concrete Institute Standards
- American Institute of Steel Construction (AISC), Steel Construction Manual
- FAA guidelines covering requirements in the vicinity of airports
- FDOT 2017 Utility Accommodation Manual

These codes, guidelines, and standards provide design parameters and guidelines with the goal of protecting public safety.

Table 4-1. Maximum Electromagnetic Field Capable of Being Produced by the Project

Cross Section Location[1]		New or Existing	Ampacity of New Line (amps)	Right-of-Way Width (ft)	Electric Field (kV/m)			Magnetic Field (mG)	
					On Right-of-Way	Left Edge of Right-of-Way[2]	Right Edge of Right-of-Way[2]	Left Edge of Right-of-Way[2]	Right Edge of Right-of-Way[2]
1	St. Cloud East Substation	New	2253	100	3.2	0.44	0.16	147.84	51.34
2A	2829 South of Old Melbourne Highway	New	2253	125	1.1	0.02	0.07	62.49	63.06
2B	2829 South of Old Melbourne Highway	New	-2253	125	1.1	0.02	0.07	41.43	40.05
3A	2829 North of Old Melbourne Highway	New	2253	100	1.1	0.24	0.04	147.56	53.5
3B	2829 North of Old Melbourne Highway	New	-2253	100	1.1	0.24	0.04	107.09	35.58
4A	2829 Lake Lizzie Preserve East-West Section	New	2253	100	1.1	0.05	0.20	70.38	95.56
4B	2829 Lake Lizzie Preserve East-West Section	New	-2253	100	1.1	0.05	0.20	44.94	63.13
5A	2829 Lake Lizzie Preserve North-South Section	New	2253	75	1.1	0.03	0.45	89.19	138.39
5B	2829 Lake Lizzie Preserve North-South Section	New	-2253	75	1.1	0.03	0.45	58.33	97.87
6A	2829 Deseret Section	New	2253	60	1.1	0.45	0.18	138.39	134.59
6B	2829 Deseret Section	New	-2253	60	1.1	0.45	0.18	97.87	95.56
7A	2829 Deseret Section Adjacent to Platted Road/Canal	New	2253	75	1.1	0.03	0.45	89.19	138.39
7B	2829 Deseret Section Adjacent to Platted Road/Canal	New	-2253	75	1.1	0.03	0.45	58.33	97.87
8	Osceola Parkway, Sunbridge Parkway, Wewahootee Road	New	2253	100	3.2	0.11	0.14	111.51	63.90
9A	Stanton Corridor	New	-2253	260	6.4	0.13	0.13	57.76	20.82
9B	Stanton Corridor	New	200	260	6.4	0.13	0.13	147.14	28.08

Table 4-1. Maximum Electromagnetic Field Capable of Being Produced by the Project

Cross Section Location[1]		New or Existing	Ampacity of New Line (amps)	Right-of-Way Width (ft)	Electric Field (kV/m)			Magnetic Field (mG)	
					On Right-of-Way	Left Edge of Right-of-Way[2]	Right Edge of Right-of-Way[2]	Left Edge of Right-of-Way[2]	Right Edge of Right-of-Way[2]
10	Mangolia Ranch North Substation	New	2253	100	3.2	0.09	0.44	83.35	147.84
Florida EMF rule limit for new 230-kV lines[3]					8.0	2.0	2.0	150	150

Notes: EMF = electromagnetic field
kV = kilovolt
kV/m = kilovolts per meter
mG = milliGauss

The field levels of the proposed transmission lines shown in this table are based on the highest fields anticipated for the 230-kV transmission line configurations, even though structural configurations with lower fields may be employed for some portions of the line routes. The transmission lines will generally operate at a level well under the maximum current rating (MCR). MCR is the nominal value expected to cause the conductor to reach a temperature limit of 250°Celsius.

[1] Locations depicted in Line Route Map in the EMF package.

[2] "Left" and "right" designations are as shown on Cuts 1 through 10 of the EMF package.

[3] The standard field levels are established in Rule 62-814.450(3), F.A.C.

Source: EzEMF software program developed through Florida Electric Coordinating Group and accepted by the FDEP.

Table 4-2. Maximum Audible Noise at the Edge of the Right-of-Way

Cross Section Location[1]		L50[1] (dBA)
1	St. Cloud East Substation	49.0
2	2829 South of Old Melbourne Highway	46.5
3	2829 North of Old Melbourne Highway	47.9
4	2829 Lake Lizzie Preserve East-West Section	47.5
5	2829 Lake Lizzie Preserve North-South Section	48.2
6	2829 Deseret Section	48.2
7	2829 Deseret Section Adjacent to Platted Road/Canal	48.2
8	Osceola Parkway, Sunbridge Parkway, Wewahootee Road	48.3
9	Stanton Corridor	51.5
10	Magnolia Ranch North Substation	49.0
L50 (dBA) Audible Noise Limit[2]		52.0

Notes:

[1] L50 – The noise level that is exceeded 50% the time during that measuring interval is the median level. Maximum audible noise occurs during rain or other wet weather conditions. Noise levels will be lower during dry weather conditions.

[2] The audible noise limit is based on the most notable New York State Public Service Commission Cases 26529 and 26559 - “Common Record Hearing on Health and Safety of Extra High Voltage Transmission Lines.”

Source: State Of New York Public Service Commission, 1978.

5.0 VARIANCES, EXCEPTIONS, AND EXEMPTIONS

OUC is not aware of any variances, exceptions, or exemptions from applicable state or local standards that would be required for the construction, maintenance, or operation of the Project. Accordingly, OUC is not requesting any variances, exceptions, or exemptions from any applicable state and local standards.

6.0 ASSOCIATED LINEAR FACILIITES

There are no associated linear facilities as part of the Project.

7.0 REFERENCES

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FAC. Chapter 62-17, Part II, Sections 62-17.510 to 62-17.760.

FAC. Chapter 62-814, Electric and Magnetic Fields.

FAC. Chapter 62-621.300(4). Generic Permit for Stormwater from Large and Small Construction Activities.

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Ogden, 1996b. Snowy Egret in J.A. Rodgers, H. Kale II, and H.T. Smith, eds. Rare and endangered biota of Florida, Vol V. Birds. University Press of Florida; Gainesville, Florida

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APPENDIX A

INFORMATION DISTRIBUTED TO THE PUBLIC

January 7, 2020

Open House Invitation

«PARCEL_OWNER_NAME»
«MAILING_ADDRESS»
«CITY», «STATE» «ZIP»

Dear «PARCEL_OWNER_NAME»:

At OUC, we realize your time is valuable. We also value your opinion and would like your input on our efforts to ensure that our customers in St. Cloud and southeast Orange County receive reliable and resilient power now and in the future.

OUC plans to construct a 230-kV transmission line in your area that will accommodate continued growth in St. Cloud, enhance reliability of the electrical system that currently serves the Orlando metropolitan area, and facilitate integration of future renewable energy resources. To meet this goal, we have identified alternate route segments that will provide a new connection between the St. Cloud East substation in Osceola County and the Magnolia Ranch substation in Orange County.

You are receiving this letter because you own property along one of the potential routes. To facilitate community feedback, we will hold open houses where you will have the opportunity to view alternate routes and share your thoughts and ideas. There will be additional information on the route selection process, with project team members available to answer your questions. Your feedback is a crucial component to this project and we hope you will join us during one of the scheduled times below.

OPEN HOUSES DATES AND TIMES

January 28, 2020 | 6:00 to 8:00 p.m. Narcoossee Middle School 2700 N. Narcoossee Rd. **|** St. Cloud, FL 34771 **RSVP by January 23 at** **www.ouc.com/resiliencyconnection**	**January 30, 2020 | 6:00 to 8:00 p.m.** Innovation Middle School 13950 Storey Park Blvd. **|** Orlando, FL 32832 **RSVP by January 23 at** **www.ouc.com/resiliencyconnection**

Following the open houses, all public comments will be reviewed by the project team and incorporated into a review of the alternate route segments. After considering public feedback and information obtained from routing, environmental and engineering studies, OUC will submit an application for licensing through Florida's Transmission Line Siting Act.

If you are unable to join us in person, you may obtain project information and provide comments:

- Access transmission project information at www.OUC.com/resiliencyconnection
- Email questions or thoughts to resiliencyconnection@ouc.com
- Call us at 407.434.2800

We look forward to speaking with you and working together on this important project.

Sincerely,

Ken Zambito, PE
Vice President, Transmission

Orlando/St. Cloud Regional Resiliency Connection

PROVIDING AFFORDABLE, SUSTAINABLE, RESILIENT ELECTRICITY TO OUR CUSTOMERS

Project Need & Benefit

In keeping with OUC's commitment to provide customers with affordable, resilient electricity, OUC plans to construct a 230-kV transmission line to provide a new connection between the existing St. Cloud East substation in Osceola County and the existing Magnolia Ranch substation in Orange County.

OUC's decision to build a new transmission line was the result of OUC's ongoing planning studies to determine how best to meet the growing electric demands of customers in the St. Cloud regional area. The new transmission line is needed to ensure the safety, integrity, and reliability of OUC's transmission system. This line also will provide additional capacity to reinforce the Orlando metropolitan area's electrical grid and support development and integration of future renewable energy resources.

Licensing and Permitting

After OUC completes its routing, environmental, and engineering analyses, along with public outreach activities, we will submit an application for licensing of a proposed corridor in accordance with Florida's Transmission Line Siting Act (TLSA). This process includes a hearing before the Florida Public Service Commission (FPSC) to determine the need for the transmission line, based on reliability and economic criteria.

As part of the TLSA process, the Florida Department of Environmental Protection (FDEP) will coordinate with the water management district(s), Orange County, Osceola County, the City of St. Cloud, and other agencies, to ensure compliance with state and local regulations. The public also will be given opportunities to provide comments and participate in the TLSA process.

At the conclusion of the this process, a final order of certification will be issued that specifies all local and state requirements that govern the construction, operation, and maintenance of the new transmission line.

Anticipated Schedule

- March 2020 - OUC expects to file a TLSA application and FPSC need-determination petition
- March 2021 - OUC expects to receive approval under the TLSA for the proposed line
- December 2021 - Construction may begin if anticipated deadlines are achieved
- December 2023 - Line operational

Corridor Selection Process

Information gathered during the corridor selection process provides valuable insight into unique properties, land constraints and opportunities, and potential impacts to landowners. We appreciate the community's input and assistance as we seek to determine the corridor which will best serve our customers' needs.

Corridor Selection Criteria

Florida's Transmission Line Siting Act (TLSA) regulations require consideration of corridor alternatives, land use planning, environmental resources, engineering considerations, social impacts, safety and overall project cost.

Throughout the corridor selection process, OUC will carefully consider public input and the Project's impact on the natural, environmental, cultural and economic areas, features and resources listed below. OUC will select the transmission line corridor that best balances the need for electric system reliability with the impacts of the line on the public and the environment.

- Airports and restricted airspace
- Archaeological and historic sites
- Cemeteries
- Commercial use areas
- Conservation lands
- Floodplains
- Geologically sensitive areas
- Industrial areas
- Mines / quarries
- Oil and gas lines
- Protected species and habitats
- Residences
- Schools and churches
- Streams and other waterbodies
- Wells
- Wetlands

About OUC

Established in 1923 by a special act of the Florida Legislature, OUC—The *Reliable* One is the second largest municipal utility in Florida and 14th largest municipal utility in the country. OUC provides electric, water, chilled water and/or lighting services to 400,000 customer accounts in Orlando, St. Cloud and parts of unincorporated Orange and Osceola counties.

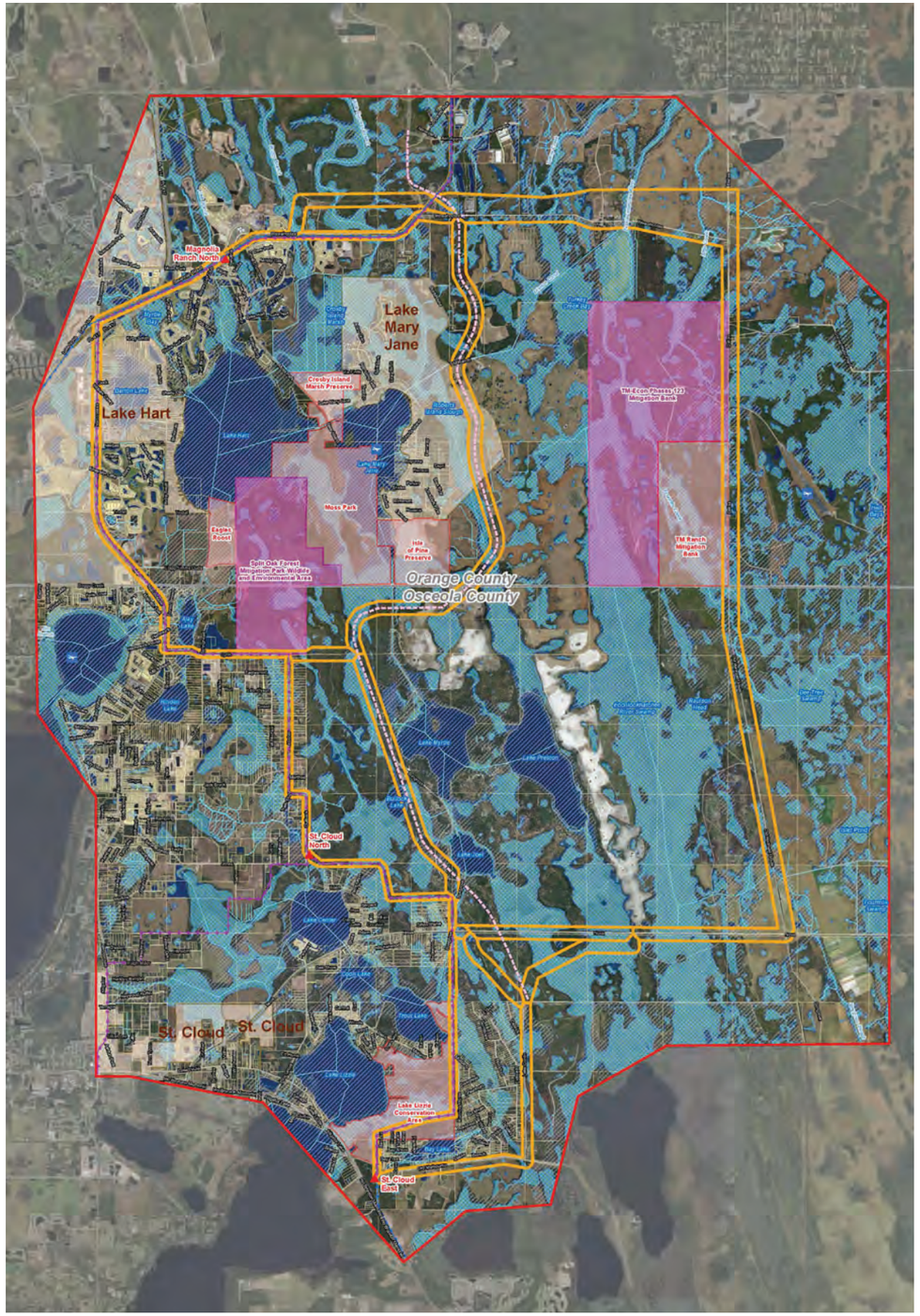
NEED MORE INFORMATION OR HAVE COMMENTS?

www.OUC.com/resiliencyconnection

resiliencyconnection@ouc.com

407.434.2800

Project Study Area & Potential Corridor Segments



Frequently Asked Questions

How were the alternate corridor segments developed?

To identify the best location for the project, OUC established a 550-square-mile study area in Orange and Osceola counties. Using social, geographic, engineering and environmental data, OUC identified several potential transmission line corridors within the study area. Information obtained at the project open houses will be incorporated into the corridor evaluation.

What input has OUC already obtained?

OUC has solicited input from representatives of 46 local, state, and other governmental agencies and will continue to incorporate public feedback from residents, landowners, local governments, regulatory agencies, and other stakeholders for evaluation of each of the corridors.

How tall will the transmission structures be?

On average, the steel monopole structures will be approximately 105 to 150 feet tall (above ground height), depending on the terrain and spans between structures.

How wide will the final certified corridor be?

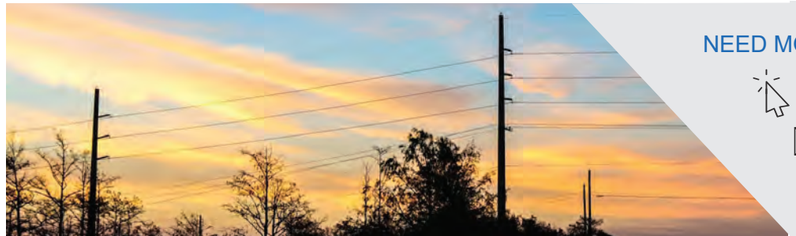
The final certified corridor would vary in width to allow for flexibility and to address site specific conditions. The final right-of-way within the certified corridor would typically be 100 feet wide.

What is an easement?

An easement, also called a right-of-way, is a legal right to use land for a specific purpose, In the case of this Project, landowners will be asked to grant an easement for the purpose of building and maintaining an electric transmission line. An easement does not transfer ownership.

How much will be paid for easements?

Easement values will be determined after final TLSA approval is obtained and a final route has been selected. Compensation will be based on independent market valuations. OUC will consider the type of property being crossed and the location of the easement on the property in determining value.



NEED MORE INFORMATION OR HAVE COMMENTS?

www.OUC.com/resiliencyconnection

resiliencyconnection@ouc.com

407.434.2800

OUC

The *Reliable* One

Welcome

Orlando/ St. Cloud Regional Resiliency Connection Open House

OUC welcomes you to this public open house for the Orlando/St. Cloud Regional Resiliency Connection.

Your questions and comments are important to us. Please be sure to sign in and complete a questionnaire.

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GIS Computer Stations

The *Reliable* One®

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OUC Customer Service

The *Reliable* One®

OUC

The *Reliable* One

Vegetation

OUC

The *Reliable* One

Real Estate

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OUC

The *Reliable* One

Questionnaires

The *Reliable* One

County Line Substation

The *Reliable* One®

Need & Benefit

Need:

Recent planning studies revealed the need for additional transmission capacity to:

- Connect OUC's existing St. Cloud East substation in Osceola County and OUC's existing Magnolia Ranch North substation in Orange County
- Support continued population and economic growth, and associated growth in demand for electric service, in the St. Cloud regional area
- Reinforce the reliability of OUC's existing electrical system, serving the Orlando metropolitan area
- Facilitate the development and integration of future renewable energy resources

Additional Benefits:

- Reduced and avoided power outages
- Reduced impacts from extreme weather and other unusual events

Routing

Routing Process

Information gathered during the corridor selection process provides valuable insights into unique properties, land constraints and opportunities, and potential impacts to landowners. We appreciate the community's input and assistance as we seek to determine the corridor that will best serve our customers' needs.

Routing Criteria

Throughout the routing process, OUC will carefully consider public input and the Project's impacts on the natural, environmental, cultural and economic areas, features and resources listed below. OUC will select the transmission line corridor that best balances the need for electric system reliability with the impacts of the line on the public and the environment.

- Airports and restricted airspace
- Archaeological and historic sites
- Cemeteries
- Commercial use areas
- Conservation lands
- Floodplains
- Geologically sensitive areas
- Industrial areas
- Mines / quarries
- Oil and gas lines
- Protected species and habitats
- Residences
- Schools and churches
- Streams and other water bodies
- Wells
- Wetlands

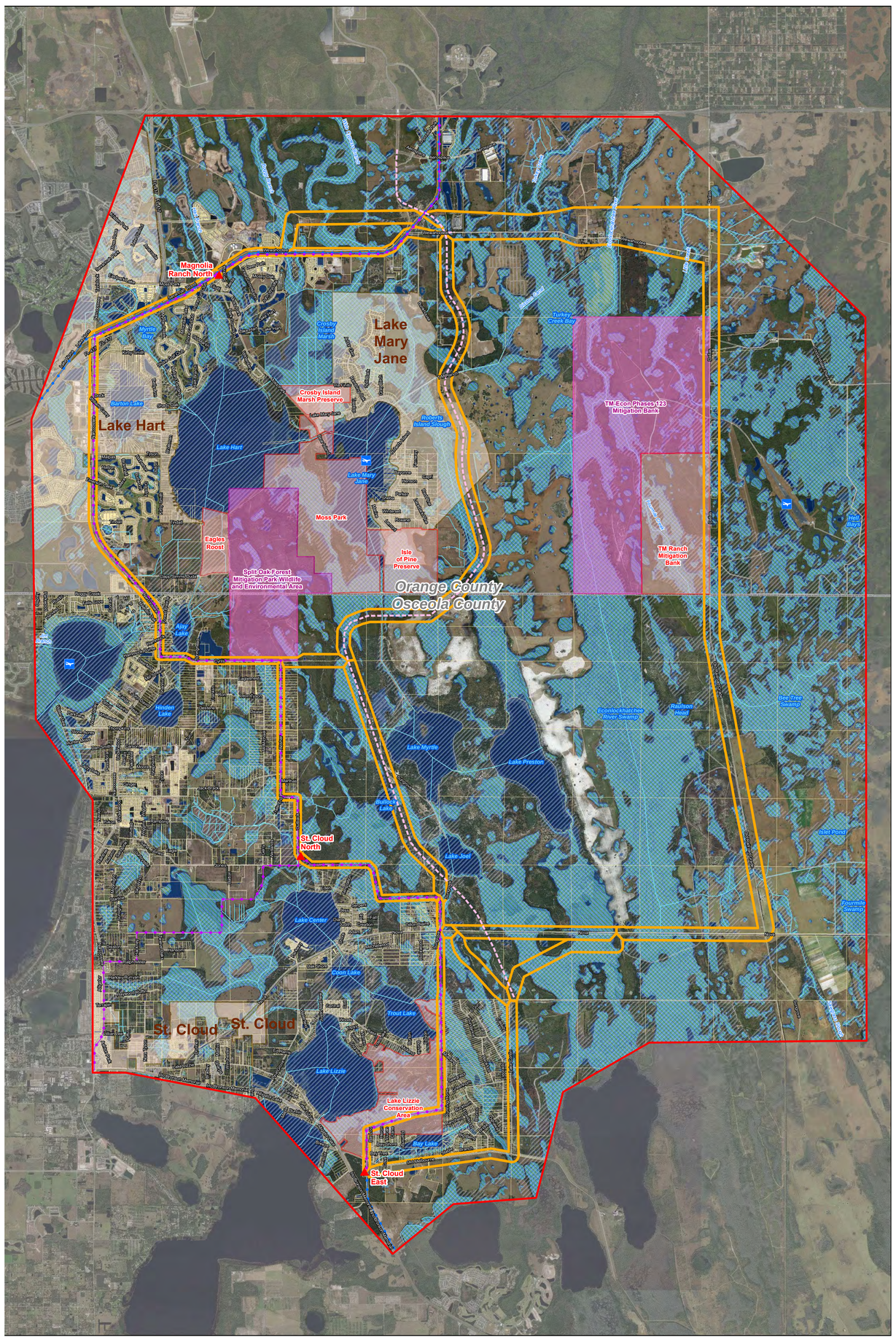
Routing

Study Area

OUC established a 550-square-mile area for the routing study, then invited input from representatives of 46 local, state and federal agencies.

Florida's Transmission Line Siting Act (TLSA) regulations require consideration of:

- Corridor alternatives
- Land use planning
- Environmental resources
- Engineering consideration
- Social impacts
- Safety
- Overall project cost



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Licensing & Permitting

- Following a thorough routing analysis, OUC will submit an application to the Florida Department of Environmental Protection (FDEP) for approval of a single transmission line corridor.
- OUC's application will be reviewed under Florida's Transmission Line Siting Act (TLSA).
- FDEP will oversee the TLSA review process.
- Under TLSA, the project will be reviewed by Orange County, Osceola County, the City of St. Cloud, FDEP, South Florida Water Management District, and other agencies to determine whether the project complies with all applicable regulations.
- The Florida Public Service Commission (FPSC) will determine whether there is a need for the transmission line, based on reliability and other criteria.
- A final order of certification will be issued that specifies all of the local and state requirements governing construction, operation and maintenance of the transmission line.
- An additional permit will be obtained from the U.S. Army Corps of Engineers.

Environmental

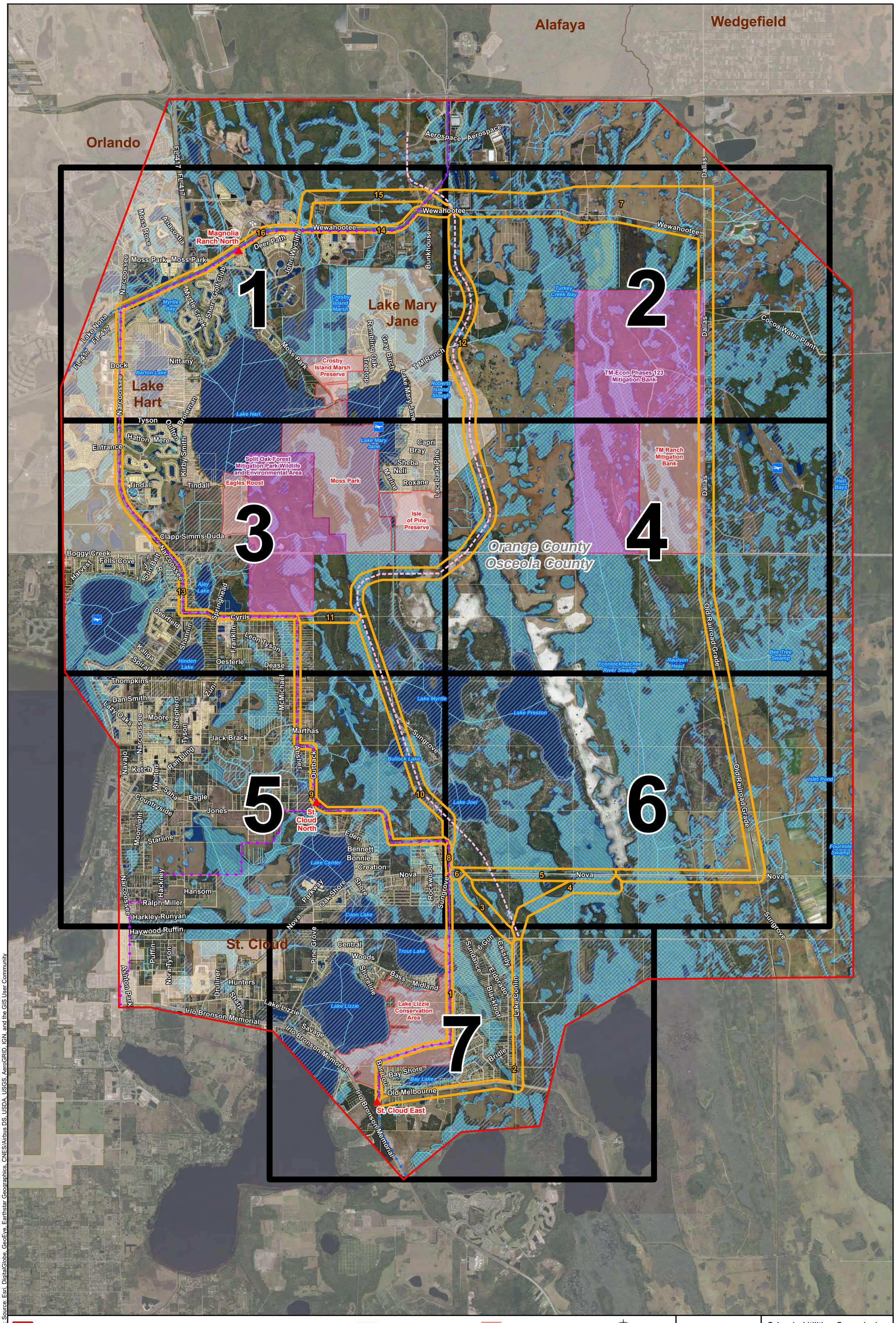
Regulatory Requirements

Florida's Transmission Line Siting Act (TLSA) requires consideration of the project's impact on environmental resources.

- OUC's team of environmental specialists and engineers will conduct a thorough assessment of environmental impacts.
- OUC will seek opportunities to minimize impacts to wetlands and habitat by locating the new transmission line next to existing linear facilities.
- Impacts to threatened or endangered species will be minimized to the greatest extent possible.

Environment & Community

OUC is committed to working with all impacted persons, including neighbors, landowners, environmental groups, and regulatory agencies, to identify the best route for providing environmentally-sound and cost-effective services to our customers.



Study Area
Existing Substation
Proposed Project Corridor
Private Airstrip
Existing 69 kV Transmission Line
Existing 230 kV Transmission Line
Railroad
Street
NHD Flowline
NWI Wetland
NHD Waterbody
100-year Floodplain
Parcel Boundary
Municipal Boundary
County Boundary
Proposed Sunbridge Parkway
County Managed Area
Mitigation Park

NORTH

3,500 1,750 0 3,500
Scale in Feet

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Orlando Utilities Commission
Preliminary Route Corridors
Orlando/St. Cloud Regional
Resiliency Connection
Index Map

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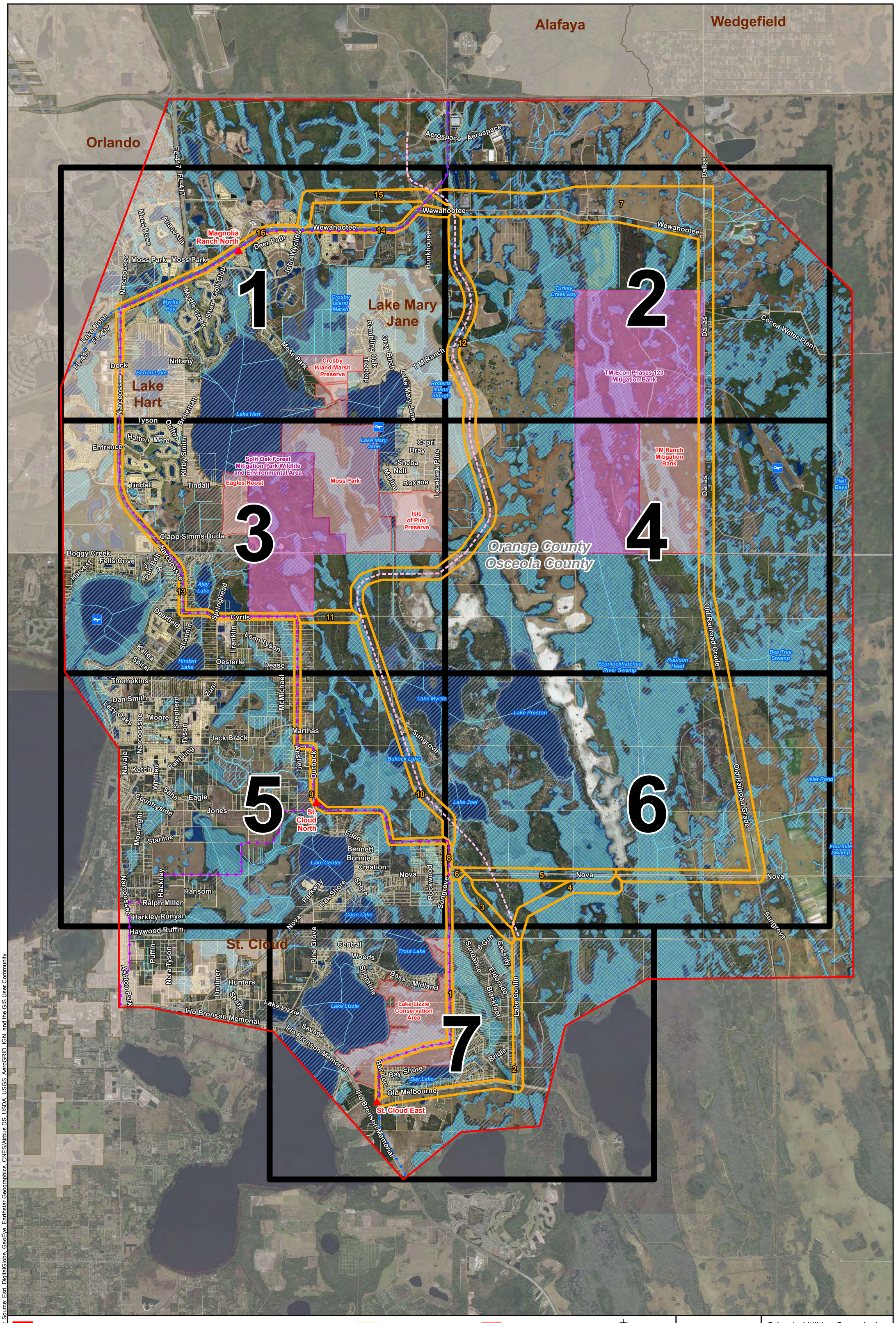
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Source: Esri, FAA, Energy Velocity, FEMA, NTAD, USGS, NHD, NWI, Burns & McDonnell Engineering Company, Inc.

Issued: 1/22/2020



Study Area
Existing Substation
Proposed Project Corridor
Private Airstrip
Existing 69 kV Transmission Line
Existing 230 kV Transmission Line
Railroad
Street
NHD Flowline
NWI Wetland
NHD Waterbody
100-year Floodplain
Parcel Boundary
Municipal Boundary
County Boundary
Proposed Sunbridge Parkway
County Managed Area
Mitigation Park

NORTH

3,500 1,750 0 3,500
Scale in Feet

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Orlando Utilities Commission
Preliminary Route Corridors
Orlando/St. Cloud Regional
Resiliency Connection
Index Map

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Source: Esri, FAA, Energy Velocity, FEMA, NTAD, USGS, NHD, NWI, Burns & McDonnell Engineering Company, Inc.

Issued: 1/22/2020

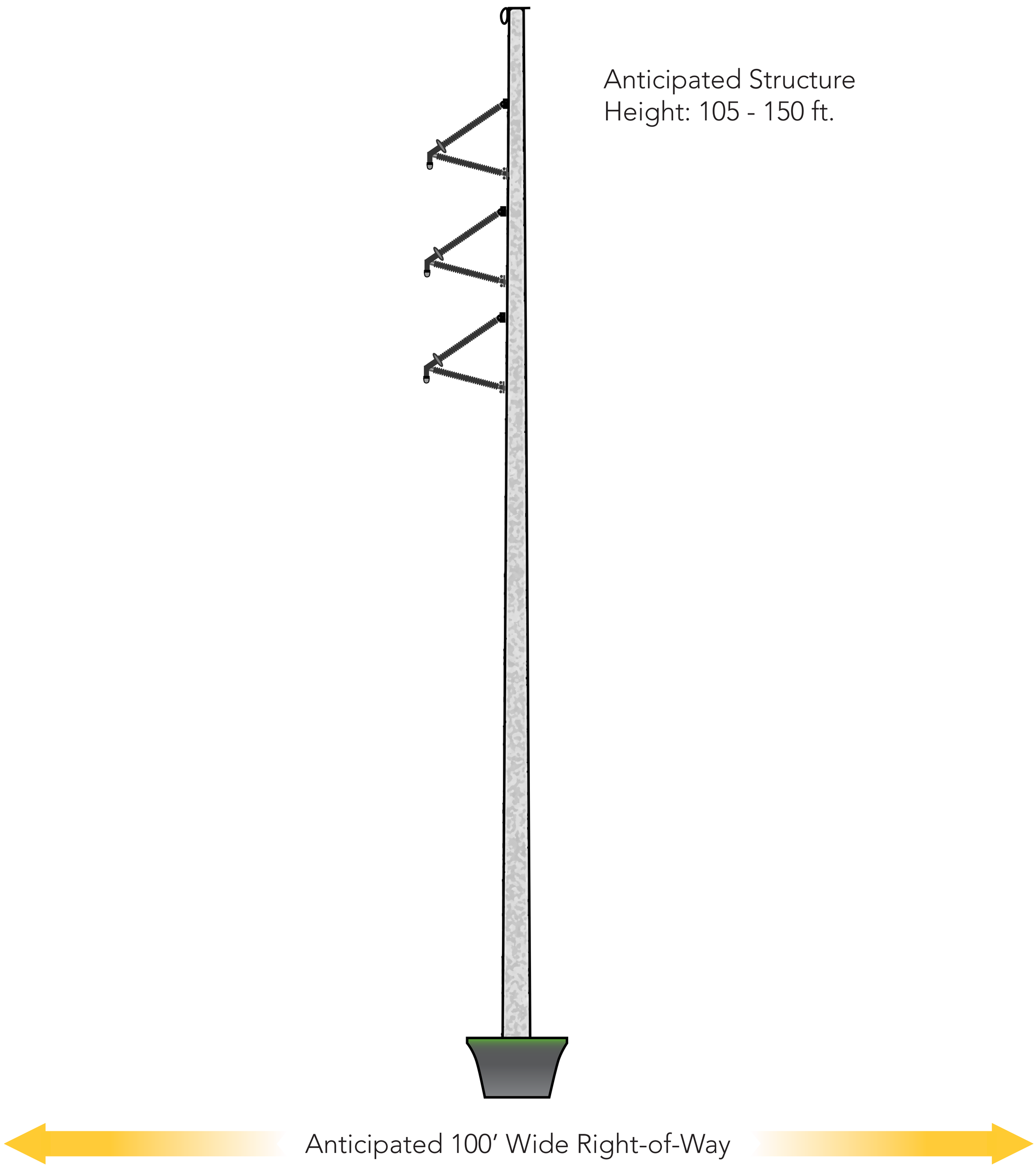
Meeting Guidelines

- Thank you for attending this public open house! The feedback you share with us tonight will be used by OUC to develop the Orlando/St. Cloud Regional Resiliency Connection.
- If you need help at any point, identify yourself to any available project representative. We're happy to answer your questions!
- This is a public information forum and photography is allowed. By participating, you acknowledge that your likeness may be captured in recordings, including news coverage.
- Signage, handouts and organized protests are not allowed inside the building. If you wish to protest, a designated area will be established outside the entrance.
- Weapons are not allowed on the premises.

Engineering

Proposed 230kV Line

Steel Monopole Structure



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Anticipated Project Schedule

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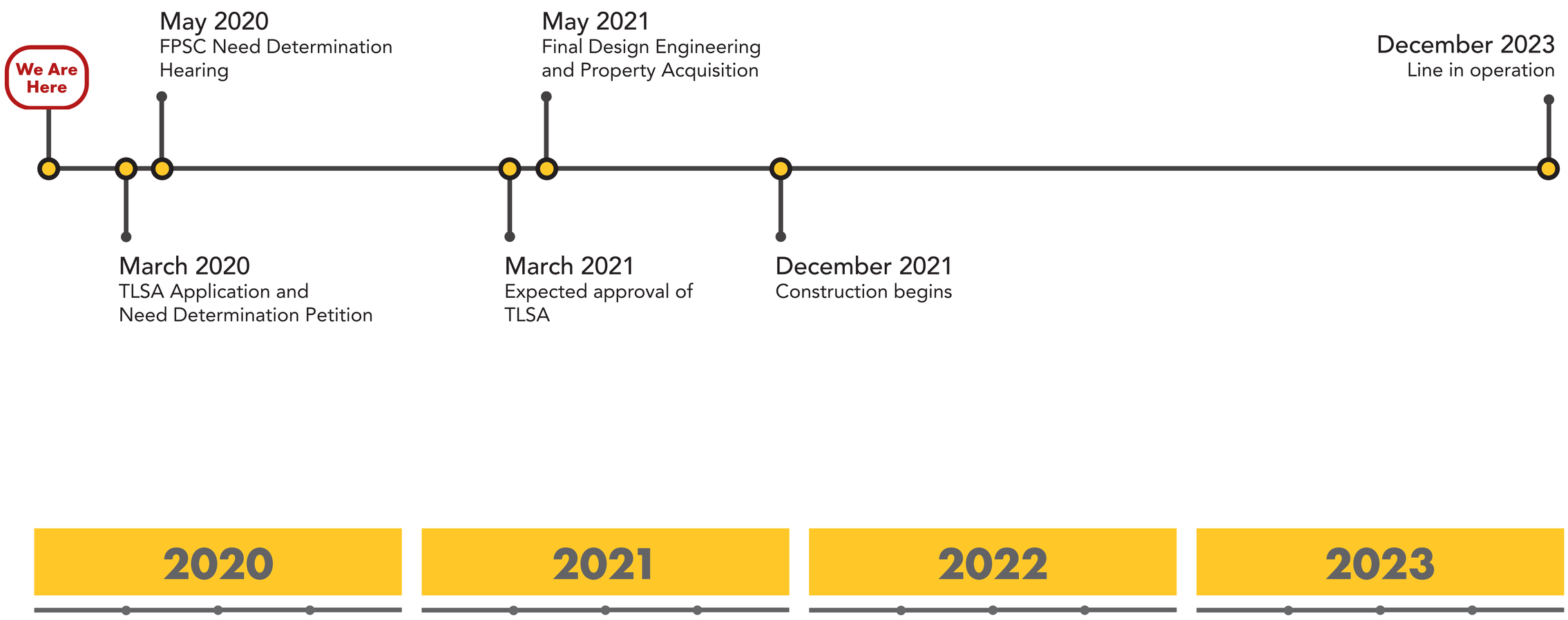
Anticipated Project Schedule



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Contact Information

To contact us:

- » Call: 407.434.2800
- » Email: **ResiliencyConnection@ouc.com**

Take the survey and learn more:

- » www.OUC.com/resiliencyconnection

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Orlando/St. Cloud Regional Resiliency Connection Questionnaire

This survey will help the routing team understand your interests and concerns. Information you share with us will be incorporated into the corridor selection process. This survey is also available on the Project webpage at www.OUC.com/resiliencyconnection through February 13th.

YOUR INFORMATION

Name: _____ Phone: _____

Organization: _____ Email: _____

Address: _____ City/State/Zip _____

TRANSMISSION LINE ROUTING CONSIDERATIONS

1. The routing of a transmission line involves many considerations. From the list of routing factors below, please circle the number corresponding to the level of importance of that factor to you.

Factor	Not Important	.....	Somewhat Important	.....	Most Important
a) Maximize distance from homes	1	2	3	4	5
b) Maximize distance from commercial/industrial facilities/businesses	1	2	3	4	5
c) Maximize distance from public facilities (e.g. schools, parks, churches, cemeteries, etc.)	1	2	3	4	5
d) Maximize distance from conservation areas	1	2	3	4	5
e) Minimize crossing wetlands, floodplains and streams/rivers	1	2	3	4	5
f) Minimize crossing cropland	1	2	3	4	5
g) Minimize crossing forested land	1	2	3	4	5
h) Minimize total length of the transmission line and number of angles (reducing the total cost)	1	2	3	4	5
i) Maximize distance from historic/cultural sites	1	2	3	4	5
j) Maximize length along roads/railroads	1	2	3	4	5
k) Maximize length along other utility corridors	1	2	3	4	5
l) Maximize length along property lines	1	2	3	4	5

2. Which of the following applies to your situation?

_____ a. My home is within or along a potential corridor.

_____ b. My business is within or along a potential corridor.

_____ c. Not directly affected by project.

_____ d. Other, please specify _____

[SURVEY CONTINUED ON BACK]

PROJECT NEED

3. Do you believe the purpose and need for this transmission line has been adequately explained?

_____ a. Yes

_____ b. No

_____ c. Uncertain

If you answered “no” or “uncertain,” what additional information would be helpful to you?

_____

_____

_____

_____

ADDITIONAL COMMENTS

4. If you would like to comment further on your answers above, or identify any other issues that you would like to be considered, please use the space below or an additional sheet of paper.

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

We welcome any drawings, maps, or other information you may want to submit that could aid in our understanding of your concerns.

Please complete and return this survey by February 13 to:

Orlando/St. Cloud Regional Resiliency Connection
c/o Orlando Utilities Commission
100 W Anderson Street
Orlando, FL 32801

resiliencyconnection@ouc.com

Q1 Please enter your contact information below. All information will be kept confidential and your participation in this survey will not be made public.

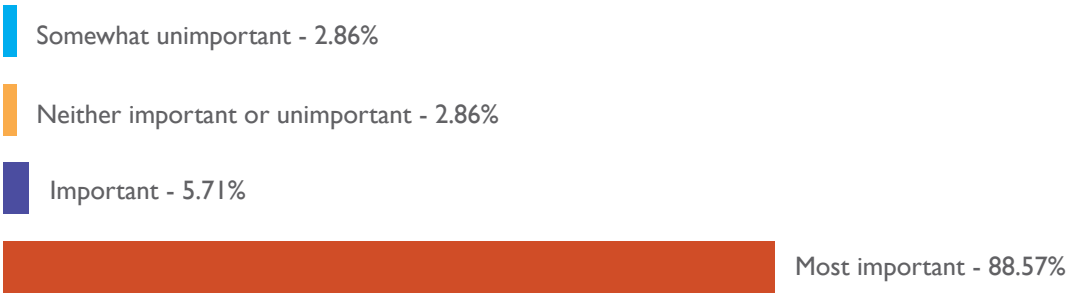
Answered: 35 Skipped: 0

ANSWER CHOICES	RESPONSES	
Name	100.00%	35
Company	17.14%	6
Address	100.00%	35
Address 2	2.86%	1
City/Town	97.14%	34
State	97.14%	34
ZIP/Postal Code	97.14%	34
Country	0.00%	0
Email Address	77.14%	27
Phone Number	97.14%	34

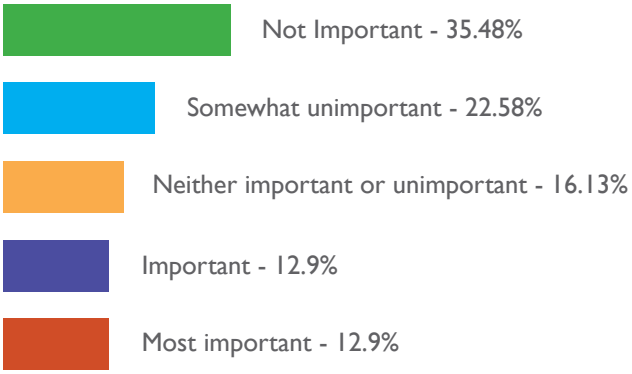
Q2 The routing of a transmission line involves many considerations. From the list of routing factors below, please circle the number corresponding to the level of importance to you.

Answered: 35 Skipped: 0

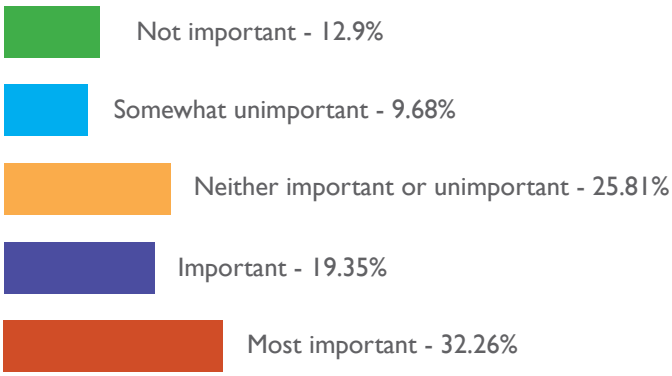
a) Maximize distance from homes



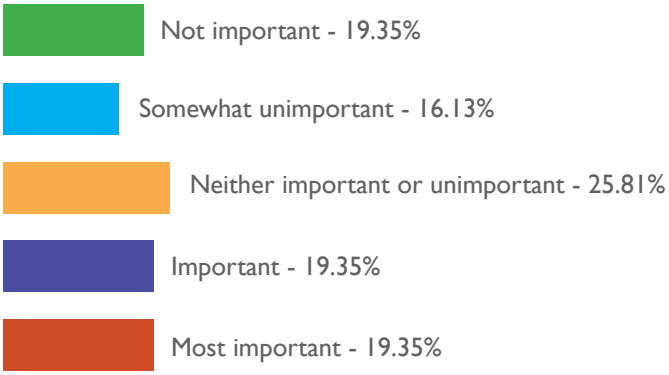
b) Maximize distance from commercial/industrial facilities/businesses



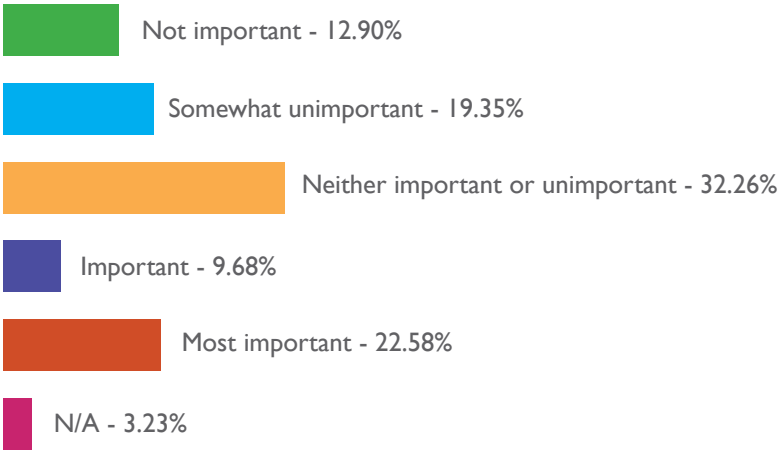
c) Maximize distance from public facilities (e.g. schools, parks, churches, cemeteries, etc.)



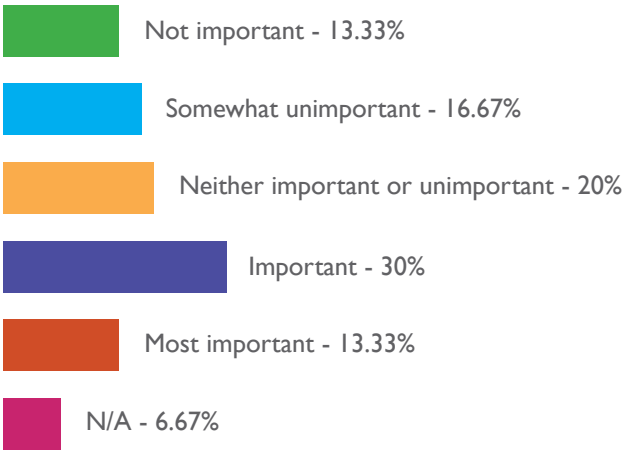
d) Maximize distance from conservation areas



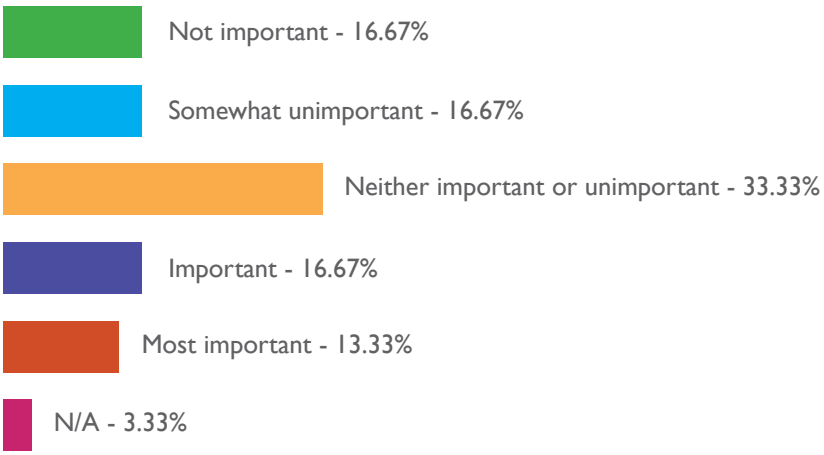
e) Minimize crossing wetlands, floodplains and streams/rivers



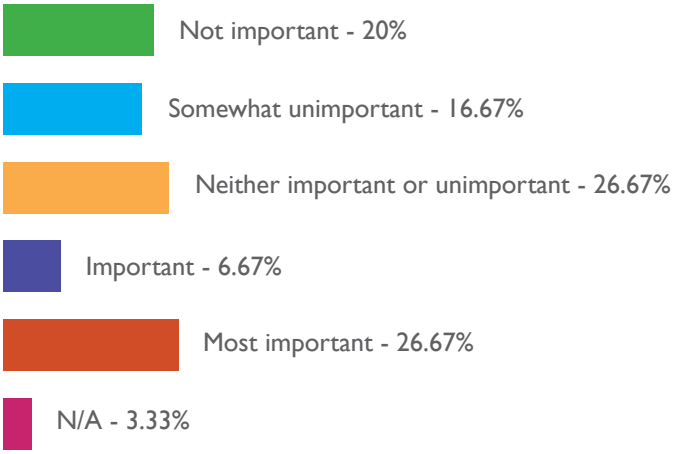
f) Minimize crossing cropland



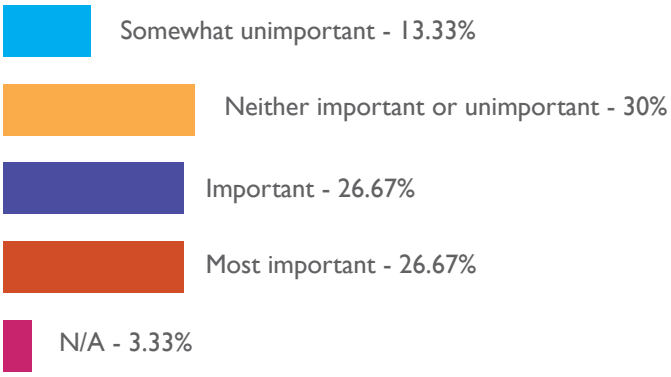
g) Minimize crossing forested land



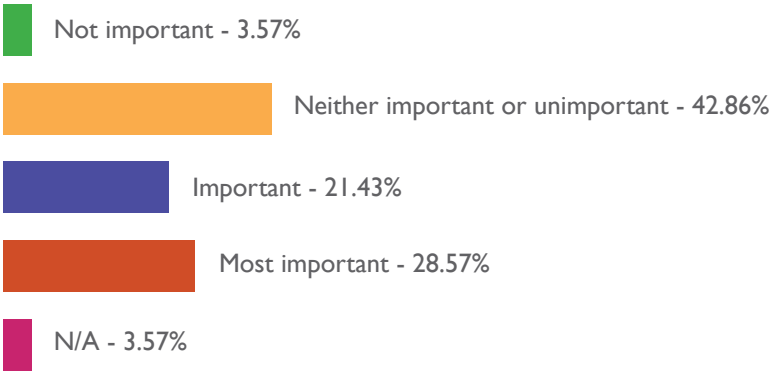
h) Minimize total length of the transmission line and number of angles (reducing the total cost)



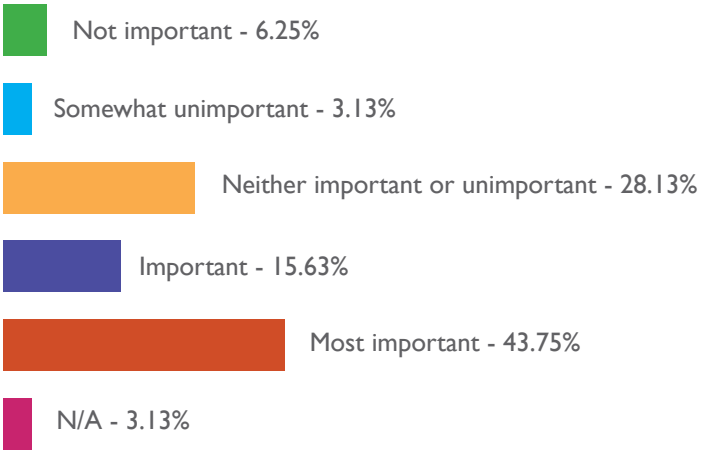
i) Maximize distance from historic/cultural sites



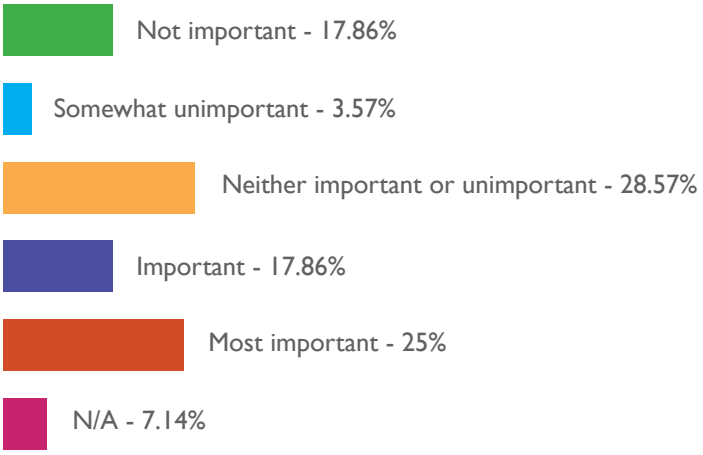
j) Maximize length along roads/railroads



k) Maximize length along other utility corridors



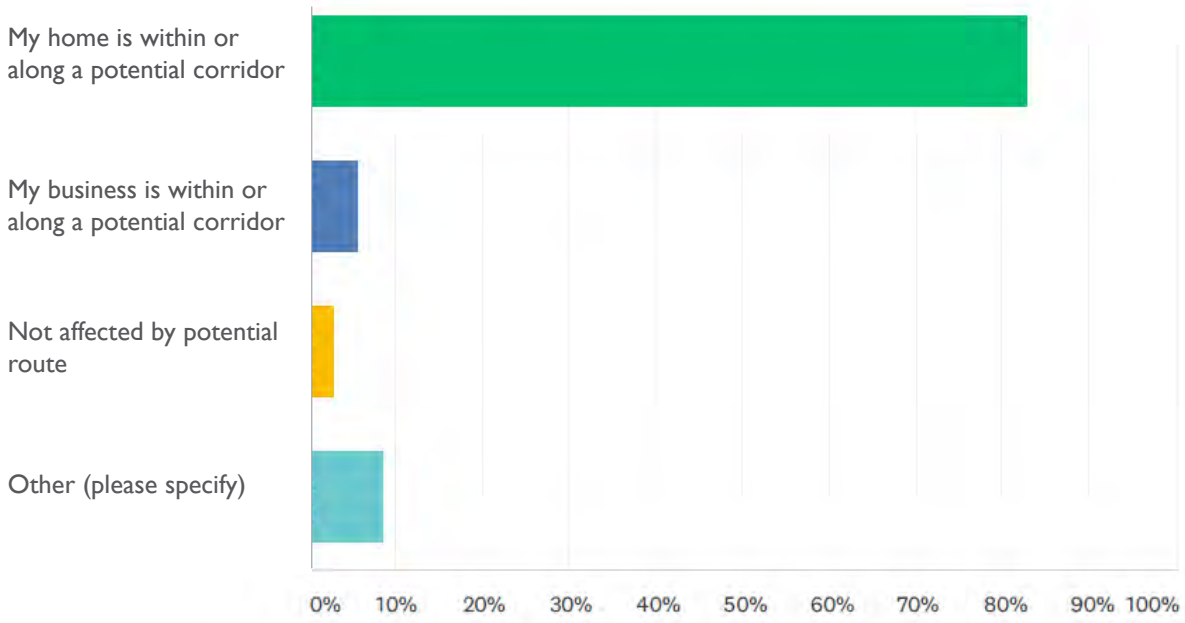
l) Maximize length along property lines



	NOT IMPORTANT1	2	3	4	MOST IMPORTANT5	N/A	TOTAL	WEIGHTED AVERAGE
a) Maximize distance from homes	0.00% 0	2.86% 1	2.86% 1	5.71% 2	88.57% 31	0.00% 0	35	4.80
b) Maximize distance from commercial/ industrial facilities/ businesses	35.48% 11	22.58% 7	16.13% 5	12.90% 4	12.90% 4	0.00% 0	31	2.45
c) Maximize distance from public facilities (e.g. schools, parks, churches, cemeteries, etc.)	12.90% 4	9.68% 3	25.81% 8	19.35% 6	32.26% 10	0.00% 0	31	3.48
d) Maximize distance from conservation areas	19.35% 6	16.13% 5	25.81% 8	19.35% 6	19.35% 6	0.00% 0	31	3.03
e) Minimize crossing wetlands, floodplains and streams/rivers	12.90% 4	19.35% 6	32.26% 10	9.68% 3	22.58% 7	3.23% 1	31	3.10
f) Minimize crossing cropland	13.33% 4	16.67% 5	20.00% 6	30.00% 9	13.33% 4	6.67% 2	30	3.14
g) Minimize crossing forested land	16.67% 5	16.67% 5	33.33% 10	16.67% 5	13.33% 4	3.33% 1	30	2.93
h) Minimize total length of the transmission line and number of angles (reducing the total cost)	20.00% 6	16.67% 5	26.67% 8	6.67% 2	26.67% 8	3.33% 1	30	3.03
i) Maximize distance from historic/cultural sites	0.00% 0	13.33% 4	30.00% 9	26.67% 8	26.67% 8	3.33% 1	30	3.69
j) Maximize length along roads/railroads	3.57% 1	0.00% 0	42.86% 12	21.43% 6	28.57% 8	3.57% 1	28	3.74
k) Maximize length along other utility corridors	6.25% 2	3.13% 1	28.13% 9	15.63% 5	43.75% 14	3.13% 1	32	3.90
l) Maximize length along property lines	17.86% 5	3.57% 1	28.57% 8	17.86% 5	25.00% 7	7.14% 2	28	3.31

Q3 Which of the following applies to your situation? (check all that apply)

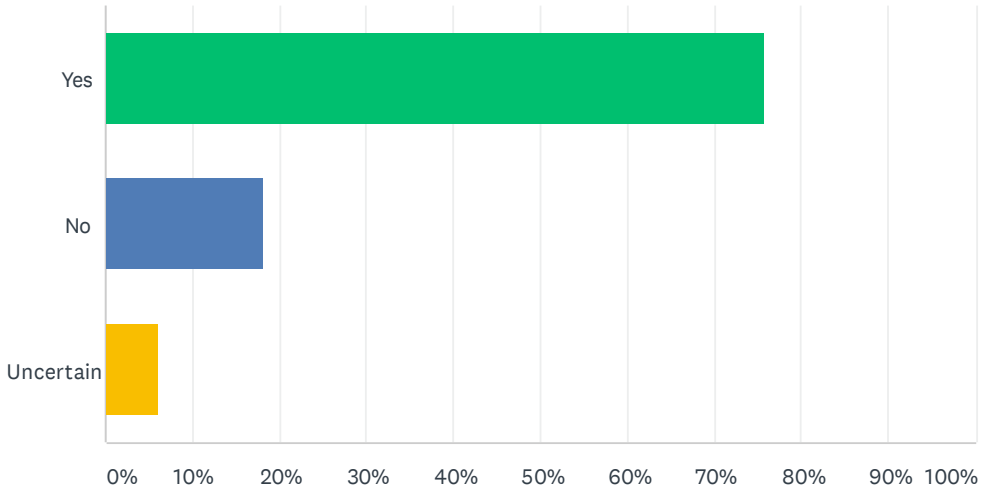
Answered: 35 Skipped: 0



ANSWER CHOICES	RESPONSES	
My home is within or along a potential corridor.	82.86%	29
My business is within or along a potential corridor.	5.71%	2
Not affected by potential route	2.86%	1
Other (please specify)	8.57%	3
TOTAL		35

Q4 Do you believe the purpose and need for this transmission line has been adequately explained?

Answered: 33 Skipped: 2



ANSWER CHOICES	RESPONSES	
Yes	75.76%	25
No	18.18%	6
Uncertain	6.06%	2
TOTAL		33

Q5 If you would like to comment further on your answers above, or identify any other issues that you would like to be considered, please use the space below

Answered: 27 Skipped: 8

APPENDIX B

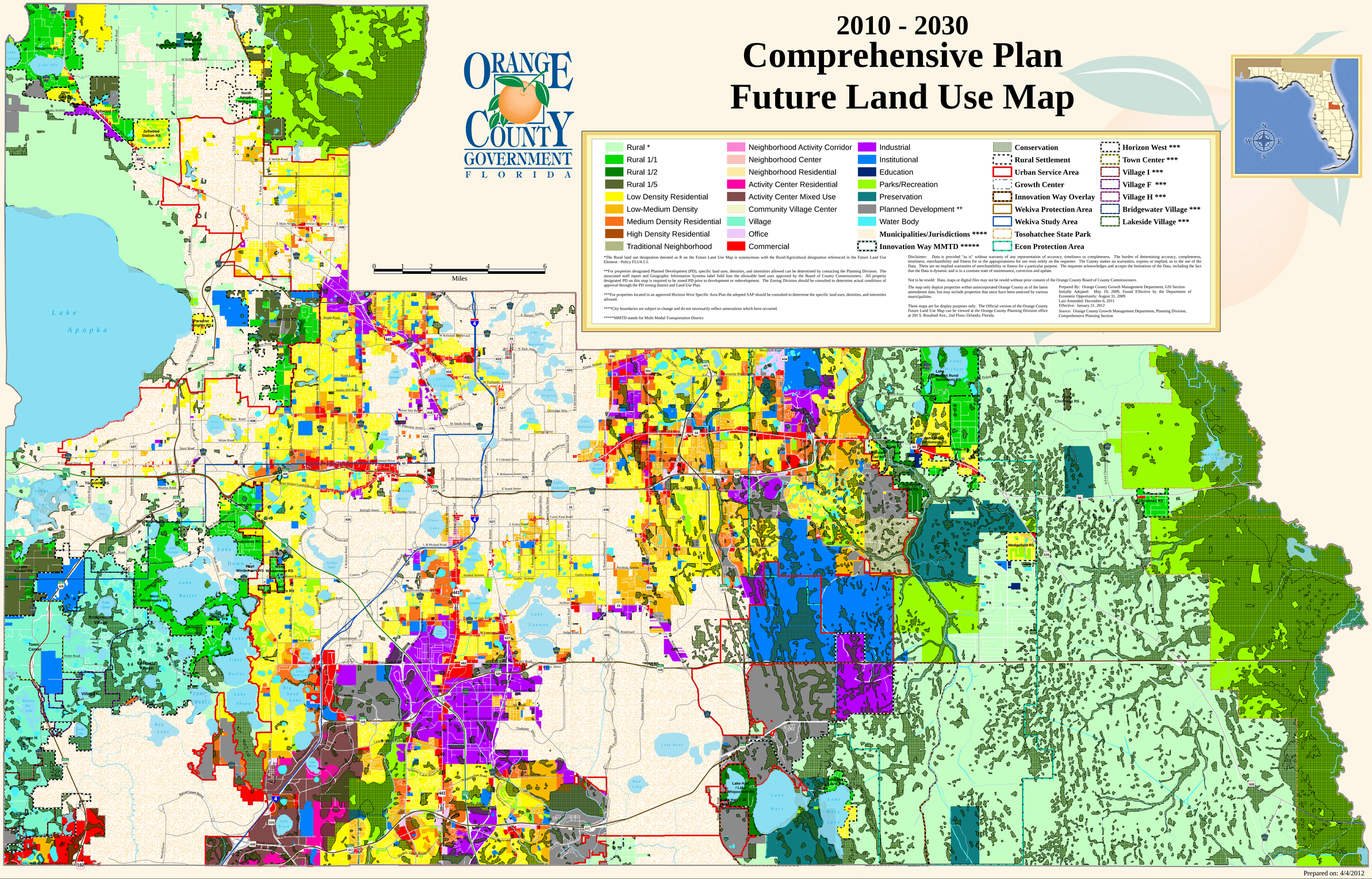
COUNTY AND MUNICIPAL FUTURE LAND USE MAPS

RANGE 27 EAST | RANGE 28 EAST | RANGE 29 EAST | RANGE 30 EAST | RANGE 31 EAST | RANGE 32 EAST | RANGE 33 EAST | RANGE 34 EAST

TOWNSHIP 20 SOUTH | TOWNSHIP 21 SOUTH | TOWNSHIP 22 SOUTH | TOWNSHIP 23 SOUTH | TOWNSHIP 24 SOUTH

2010 - 2030
Comprehensive Plan
Future Land Use Map

ORANGE COUNTY GOVERNMENT
F L O R I D A



Rural *	Neighborhood Activity Corridor	Industrial	Conservation	Horizon West ***
Rural 1/1	Neighborhood Center	Institutional	Rural Settlement	Town Center ***
Rural 1/2	Neighborhood Residential	Education	Urban Service Area	Village I ***
Rural 1/5	Activity Center Residential	Parks/Recreation	Growth Center	Village F ***
Low Density Residential	Activity Center Mixed Use	Preservation	Innovation Way Overlay	Village H ***
Low-Medium Density	Community Village Center	Planned Development **	Wekiva Protection Area	Bridgewater Village ***
Medium Density Residential	Village	Water Body	Wekiva Study Area	Lakeside Village ***
High Density Residential	Office	Municipalities/Jurisdictions ****	Tosohatchee State Park	
Traditional Neighborhood	Commercial	Innovation Way MMTD *****	Econ Protection Area	

*The Rural land use designation denoted as R on the Future Land Use Map is synonymous with the Rural/Agricultural designation referenced in the Future Land Use Element - Policy FLU4.1.1.

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***For properties located in an approved Horizon West Specific Area Plan the adopted SAP should be consulted to determine the specific land uses, densities, and intensities allowed.

****City boundaries are subject to change and do not necessarily reflect annexations which have occurred.

*****MMTD stands for Multi Modal Transportation District

Disclaimer: Data is provided "as is" without warranty of any representation of accuracy, timeliness or completeness. The burden of determining accuracy, completeness, timeliness, merchantibility and fitness for or the appropriateness for use rests solely on the requester. The County makes no warranties, express or implied, as to the use of the Data. There are no implied warranties of merchantibility or fitness for a particular purpose. The requester acknowledges and accepts the limitations of the Data, including the fact that the Data is dynamic and is in a constant state of maintenance, correction and update.

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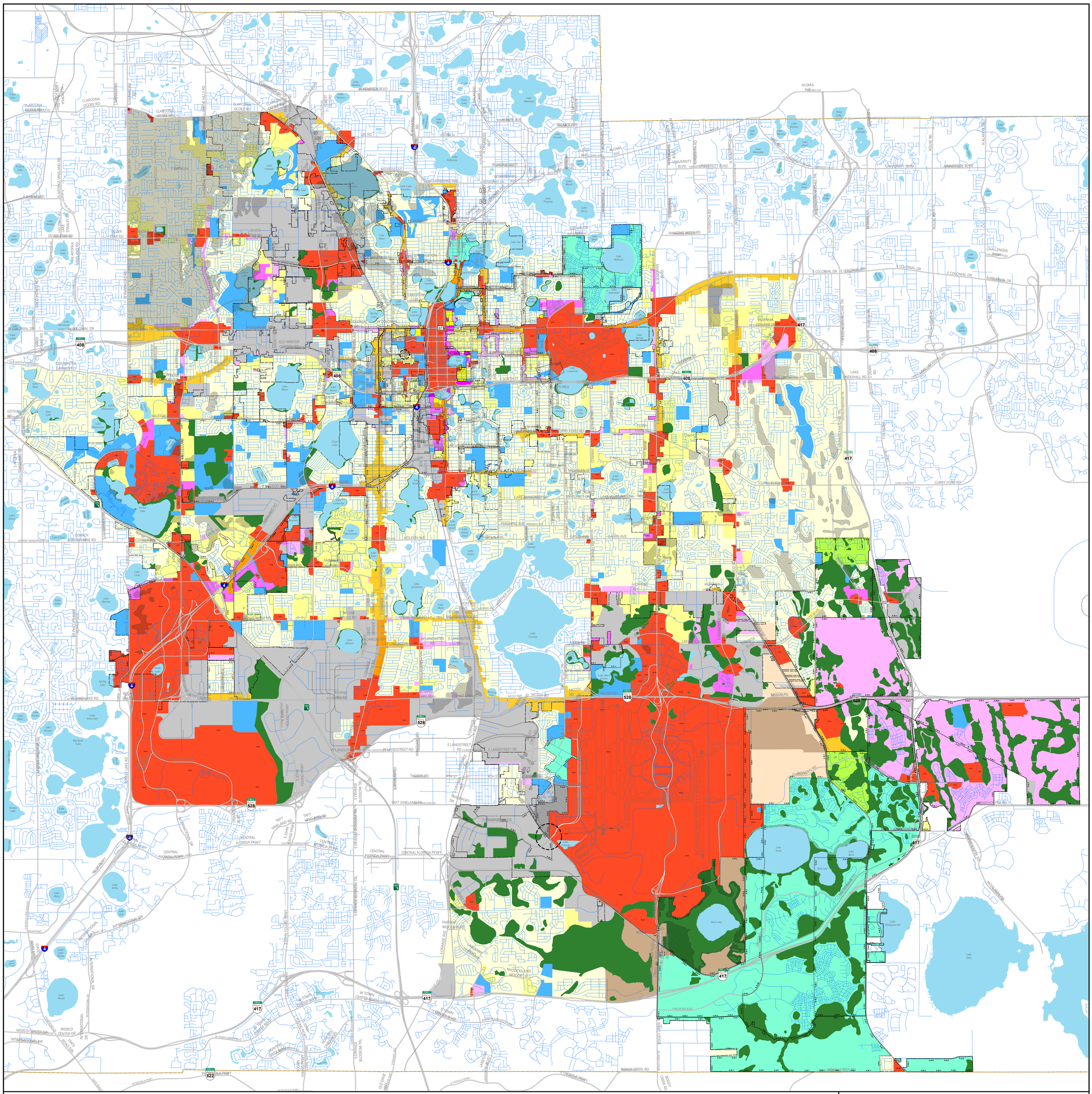
These maps are for display purposes only. The Official version of the Orange County Future Land Use Map can be viewed at the Orange County Planning Division office at 201 S. Rosalind Ave., 2nd Floor, Orlando, Florida.

Prepared By: Orange County Growth Management Department, GIS Section
Initially Adopted: May 19, 2009, Found Effective by the Department of Economic Opportunity: August 31, 2009
Last Amended: December 6, 2011
Effective: January 21, 2012
Source: Orange County Growth Management Department, Planning Division, Comprehensive Planning Section

Prepared on: 4/4/2012

RANGE 27 EAST | RANGE 28 EAST | RANGE 29 EAST | RANGE 30 EAST | RANGE 31 EAST | RANGE 32 EAST | RANGE 33 EAST | RANGE 34 EAST



Future Land Use Map

LEGEND

- **Residential Low Intensity** — Max.: 12 DU/Acre and/or 0.30 FAR; Min.: None
- **Residential Medium Intensity** — Max.: 30 DU/Acre and/or 0.30 FAR; Min.: 12 DU/Acre
- **Residential High Intensity** — Max.: 200 DU/Acre and/or 0.35 FAR; Min.: 30 DU/Acre
- **Mixed Use/Neighborhood Development** — Max.: 12 DU/Acre and/or 0.4 FAR; Min.: None
- **Office Low Intensity** — Max.: 21 DU/Acre and/or 0.4 FAR; Min.: None
- **Office Medium Intensity** — Max.: 40 DU/Acre and/or 0.7 FAR; Min.: 12 DU/Acre and/or 0.3 FAR
- **Office High Intensity** — Max.: 200 DU/Acre and/or 1.0 FAR; Min.: 30 DU/Acre and/or 0.4 FAR
- **Mixed Use Corridor Medium Intensity** — Max.: 30 DU/Acre and/or 0.5 FAR; Min.: 15 DU/Acre
- **Mixed Use Corridor High Intensity** — Max.: 200 DU/Acre and/or 1.0 FAR; Min.: 30 DU/Acre and/or 0.4 FAR
- **N-AC** — **Neighborhood Activity Center** — Max.: 30 DU/Acre and/or 0.3 FAR; Min.: 15 DU/Acre
- **C-AC** — **Community Activity Center** — Max.: 40 DU/Acre and/or 0.7 FAR; Min.: 20 DU/Acre and/or 0.35 FAR
- **U-AC** — **Urban Activity Center** — Max.: 100 DU/Acre and/or 1.0 FAR; Min.: 30 DU/Acre and/or 0.5 FAR
- **M-AC** — **Metropolitan Activity Center** — Max.: 200 DU/Acre and/or 3.0 FAR; Min.: 30 DU/Acre and/or 0.75 FAR
- **D-AC** — **Downtown Activity Center** — Max.: 200 DU/Acre and/or 4.0 FAR; Min.: 75 DU/Acre and/or 0.75 FAR
- **Industrial** — Max.: 40 DU/Acre (1) and/or 0.7 FAR; Min.: 12 DU/Acre (1)
- **Airport Support District Med. Intensity** — See Goal 4 and Associated Objectives and Policies
- **Airport Support District High Intensity** — See Goal 4 and Associated Objectives and Policies
- **Urban Village** — Determined by Adopted GMP Subarea Policy, consistent with Future Land Use Policy 2.4.4
- **Public/Recreational & Institutional** — Max.: None; Min.: None
- **Lake / Conservation** — Max.: 1 DU/5 Acres; 0.05 FAR; Min.: None
- **Conservation** — Max.: 1 DU/5 Acres; 0.05 FAR; Min.: None
- **Urban Reserve** — Max.: 1 DU/10 Acres; 0.05 FAR; Min.: None
- **Transitional Wildlife Habitat Overlay**
- **Resource Protection Overlay**
- 2.1 **Growth Management Plan Subarea Policy (See Future Land Use Element)**
- Orlando / Orange County **Jurisdiction Boundary**

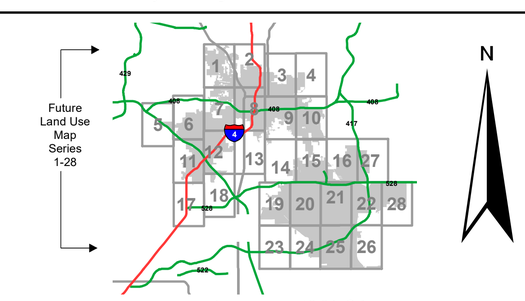
Notes/Definitions

FAR: Floor Area Ratio **DU:** Dwelling Units
GMP: Growth Management Plan

(1) Industrial Future Land Use Designation: Where allowed by the applicable Subarea Policy and Zoning District, residential uses may be allowed within the Traditional City through a Conditional Use Permit.

City of Orlando
Future Land Use Map

Economic Development Department
City Planning Division



Updated Through 19-04ESR

This map is not the Official Future Land Use Map and has been prepared for general information puposes only. The Official Future Land Use Map Series is available for review in the City of Orlando Economic Development Department, City Planning Division.
Areas shown and assigned Future Land Use categories on the Official Future Land Use Map Series which are not within the Jurisdiction of the City of Orlando are only conceptual and do not assign any legally binding land uses to areas not within the city. Should these areas be annexed, a Growth Management Plan Amendment will be required to officially designate them on the Future Land Use Map.

City of Orlando / Orange County GIS (Printed: March 13, 2020)

RANGE 27 EAST | RANGE 28 EAST | RANGE 29 EAST | RANGE 30 EAST | RANGE 31 EAST | RANGE 32 EAST | RANGE 33 EAST | RANGE 34 EAST

TOWNSHIP 20 SOUTH | TOWNSHIP 21 SOUTH | TOWNSHIP 22 SOUTH | TOWNSHIP 23 SOUTH | TOWNSHIP 24 SOUTH

2010 - 2030
Comprehensive Plan
Future Land Use Map

ORANGE COUNTY GOVERNMENT
FLORIDA

- Camino Reale
- North Lake picket
- South Lake Picket
- Growth Center
- Horizon West
- I-Drive District Overlay
- Innovation Way East
- Innovation Way Overlay Area
- InnovationWay_MMTD
- International Corporate Park
- Lakeside Village
- Pine Hills Neighborhood Improvement District (NID)
- Rural 1/1 Residential Enclave
- Rural 1/2 Residential Enclave
- Rural Residential Enclave
- Starwood
- Sunflower Trail RS
- Tosohatchee State Park
- Town Center
- World Resort
- Econlockhatchee Protection Area
- RURAL
- URBAN
- County Boundary
- **Wekiva Study Area**
- **Wekiva Protection Area**
- **Conservation**
- **Municipalities/Jurisdictions ******
- **Rural ***
- **Rural 1/1**
- **Rural 1/2**
- **Rural 1/5**
- **Rural Settlement Low Density**
- **Low Density Residential**
- **Low-Medium Density**
- **Medium Density Residential**
- **High Density Residential**
- **Traditional Neighborhood**
- **Neighborhood Activity Corridor**
- **Neighborhood Center**
- **Neighborhood Residential**
- **Activity Center Residential**
- **Activity Center Mixed Use**
- **Community Village Center**
- **Village**
- **Office**
- **Commercial**
- **Industrial**
- **Institutional**
- **Education**
- **Innovation Way**
- **Parks/Recreation**
- **Preservation**
- **Planned Development ****
- **Water Body**

0 1 2 4 6
Miles

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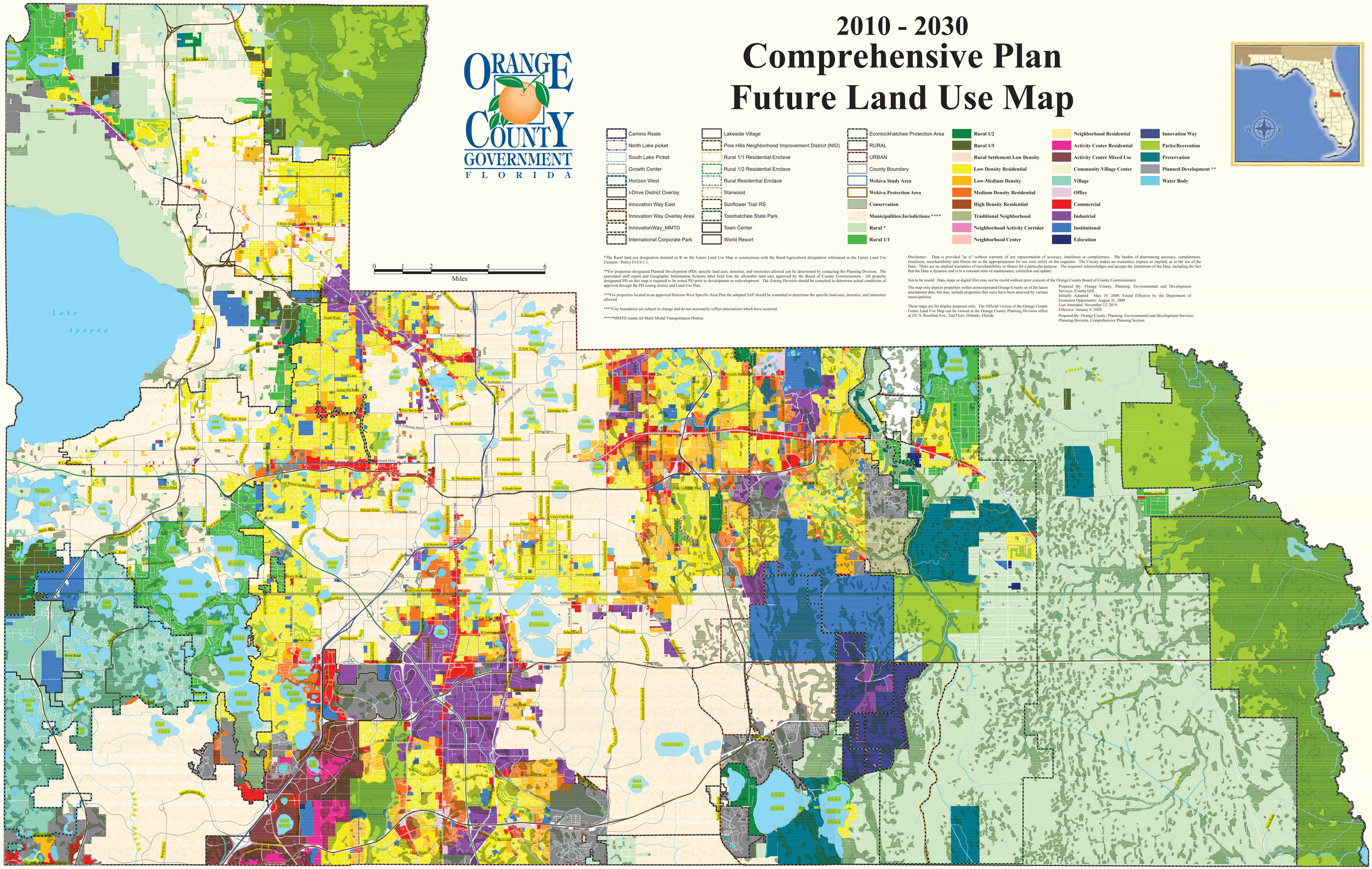
Prepared By: Orange County, Planning, Environmental and Development Services, County GIS.
Initially Adopted: May 19, 2009. Found Effective by the Department of Economic Opportunity: August 31, 2009
Last Amended: November 12, 2019.
Effective: January 9, 2020.

Prepared By: Orange County, Planning, Environmental and Development Services, Planning Divisson, Comprehensive Planning Section.


Lake Apopka
Lake Avalon
Lake Conway
Lake Eola
Lake Fairvew
Lake Gatlin
Lake Hart
Lake Pickett
Lake Price
Lake Reams
Lake Sheen
Lake Tibet
Lake Underhill
Lake Whippoorwill
Lake Willis
Lake Zellner
Lake Zellner
Lake Ola
Lake Mann
Lake Dot
Lake Down
Lake Fairvew
Lake Hoa
Lake Ivanhoe
Lake Jessamine
Lake Lucien
Lake Mann
Lake Mary Jane
Lake Nona
Lake Pickett
Lake Price
Lake Reams
Lake Sheen
Lake Tibet
Lake Underhill
Lake Whippoorwill
Lake Willis

COMPREHENSIVE PLAN

Adopted Goals, Objectives, and Policies

- **Adopted:** May 2009
- **Amended:** February 6, 2018
- **Effective:** March 30, 2018

Comprehensive Plan Amendment Application

Search for Upcoming Community Meetings

ADDITIONAL RESOURCES

Proposed Development Locations

Planning & Zoning Quick Reference Guide

Future Land Use and Zoning Correlation

Orange County Land Development Processes

General Planning Maps

Special Area Planning

Infill Master Plan (2008)

Rural Settlement Study (2000)

Narcoossee Road - Lake Hart Rural Settlement Study (2008)

Comprehensive Planning in Florida

Developments of Regional Impact (DRIs)

Central Florida DRIs

Comprehensive Planning

Orange County's comprehensive plan

FUTURE FOCUS

What will Orange County look like in the year 2030? The Comprehensive Plan embodies a community vision for guiding growth in Orange County. It helps the County manage growth to ensure the quality of life desired by Orange County residents.

CHANGING THE PLAN

The County's Comprehensive Plan includes a *Future Land Use* (FLU) Map, with FLU designations for all property in unincorporated Orange County. These designations limit what you can do with your land. But the designations can be modified through the Comprehensive Plan Amendment process. We accept applications twice a year to modify your land use designation with separate schedules for parcels under or over ten acres.

WHEN TO APPLY

Applications to change Future Land Use Map designations are only accepted twice each year.

Applications are divided into "Regular Cycle" and "Small Scale Cycle" amendments. Regular Cycle amendments are for properties more than 10 acres and Small Scale Cycles are less than 10 acres.

PRE-APPLICATION MEETING

A pre-application meeting is required prior to submitting a Comprehensive Plan Amendment Application. These meetings occur as part of the amendment cycle. Property owner(s) or authorized agents of the property owner(s) may request a pre-application meeting. The purpose of the meeting is to identify and discuss the proposed request, discuss any issues relating to the proposed application prior to the intake date, and review application submittal requirements.

Please complete the Pre-Application Meeting Request Form and return it to Misty Mills at Misty.Mills@ocfl.net.

Pre- Application Meeting Form-Fillable

AMENDMENT CYCLES

- 2018-2 BB Groves Adoption Book
- 2019-2 BCC Adoption Regular Cycle Amendments
- 2019-2 Out of Cycle Text Amendments
- 2019-2 Comprehensive Plan Transmittals
- 2019-1 BCC Adoption The Seasons Amendment
- 2018-2 Session 4 BCC Adoption August 6, 2019
- 2019-1-S-5-5 Reams Rd BCC Public Hearing
- 2018-2 Session 4 BCC Adoption
- 2018-2 BCC Adoption
- 2019-1 BCC Adoption Book Regular and Small Scale Book Part 1
- 2019-1 BCC Adoption Book Regular and Small Scale Book Part 2
- Village 1 Transmittal Staff Report BCC March 12, 2019
- 2019-1 BCC Transmittal Book PART 1
- 2019-1 BCC Transmittal Book PART 2
- 2019-1 LPA Transmittal Book
- 2018-2-C-2-1 School Site # 82-H-N-7
- 2018-2-A-1-3 Adoption Amendment
- BCC Session II Adoption Book Regular & Small Scale Book
- Bishop Landing Adoption Hearing
- 2018-1-Continued Adoption Book - Hubbard Place
- 2018-2 Regular and Small Scale Adoption Amendment Book
- 2018-2-BCC Transmittal Book
- BCC 2018-2-C-FLUE-1 Rural Residential Enclaves Adoption
- 2018-1-A-2-1 - PARKS OF MT DORA
- 2018-2 LPA Transmittal Book
- 2018-2-C-FLUE-2 - Rocking Horse Rural Residential Enclave LPA Transmittal Book
- 2018-2-C-FLUE-1 - Rural Residential Enclaves BCC Transmittal Book

CURRENT CYCLE CALENDARS

- Sched 19-2 - SMALL
- Sched 19-2 - REGULAR
- Sched 20-1 - SMALL
- Sched 20-1 - REGULAR

NOTICES OF INTENT

- Florida Department of Economic Opportunity - Community Planning & Development.

REVIEW ITEMS

- Comprehensive Plan Amendments
- Developments of Regional Impact

TOOLS

- Agent Authorization Form
- Comprehensive Plan (CP) Amendment Application

FEES

- Comprehensive Policy Plan Amendment Large Scale - $6,047.00
- Comprehensive Policy Plan Amendment Small Scale - $3,426.00

CONTACT US

Orange County Planning Division
Comprehensive Planning Section
201 South Rosalind Avenue, 2nd Floor
Orlando, FL. 32801

Phone: (407) 836-5600
Email: planning@ocfl.net
Fax: (407) 836-5862

ORANGE COUNTY
FLORIDA

COMPREHENSIVE PLAN 2010 - 2030

GOALS, OBJECTIVES & POLICIES

ADOPTED: MAY 19, 2009

AMENDED: February 6, 2018,
THROUGH ORDINANCE 2018-06

EFFECTIVE: March 30, 2018

PREPARED BY:
ORANGE COUNTY COMMUNITY, ENVIRONMENTAL
AND DEVELOPMENT SERVICES DEPARTMENT

ORANGE COUNTY PLANNING DIVISION

2010-2030 Comprehensive Plan
Goals, Objectives and Policies

CONTENTS **PAGE**

Future Land Use FLU-1

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International Drive ID-1

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Transportation Map Series TM-1

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Neighborhood N-1

Economic E-1

Conservation C-1

Recreation R-1

Open Space OS-1

Potable Water PW-1

Wastewater/Reclaimed Water WW-1

Aquifer Recharge AR-1

Stormwater Management SM-1

Solid Waste SW-1

Fire Rescue FR-1

Public School Facilities PS-1

Capital Improvements CI-1

Intergovernmental Coordination IC-1

FLU1.4.20 Orange County will evaluate, and support accordingly, the freight-intensive land use concepts, including intermodal logistics centers, distribution centers, and freight villages, identified in MetroPlan Orlando *Regional Freight Study* to enhance freight movement and efficiency and to attract high-value employment. Orange County will review the conceptual locations identified in the *Regional Freight Study* to assess their compatibility with existing Future Land Use designations and evaluate the locations within the context of surrounding land uses. (Amended 11/16, Ord. 2016-28)

FLU1.4.21 Orange County will encourage the use of vacant land within the Urban Service Area for redevelopment to improve existing conditions on-site.

FLU1.4.22 Utilities and public facilities, and all pipes and lines associated with such utilities and facilities, shall be allowed in all Future Land Use designations, subject to complying with applicable laws and regulations, including zoning restrictions. Utilities and public facilities, except associated pipes and lines, shall have a Future Land Use Map designation of Institutional. (Policies 4.1.15 and 4.3.1; Amended 11/17; Ord. 2017-19)

FLU1.4.23 New adult entertainment shall be located only within Industrial designated areas within the Urban Service Area. This policy does not supersede International Drive Policy ID1.1.6. (Added 8/92, Ord. 92-24, Policy 3.2.24)

FLU1.4.24 Orange County shall not approve industrial uses that produce or emit noises, significant vibrations or noxious/hazardous wastes/fumes resulting in adverse impacts to adjacent residential uses, unless such impacts are mitigated. (Policy 4.1.19-r)

FLU1.4.25 Orange County may require appropriate design controls for each industrial district such as, but not limited to, building setbacks, lot size building coverage ratios, impervious surface limitations and landscaping provisions to ensure industrial districts are compatible with surrounding areas. (Policy 4.1.12-r)

URBAN STRATEGIES: INFILL, LAND USE AND TRANSPORTATION, MIXED-USE

GOAL FLU2 URBAN STRATEGIES. Orange County will encourage urban strategies such as infill development, coordinated land use and transportation planning, and mixed-use development, which promote efficient use of infrastructure, compact development and an urban experience with a range of choices and living options.

OBJ FLU2.1 INFILL. Orange County shall promote and encourage infill development through incentives identified in the Land Development Code for relatively small vacant and underutilized parcels within the County's established core areas in the Urban Service Area. (Obj. 3.3-r)

POLICIES

FLU2.1.1 By 2008, Orange County shall adopt an Infill Master Plan to identify vacant parcels suitable for infill development. The plan shall identify appropriate land use and intensities and address the provision of services in Orange County's established core areas to accommodate new development in these designated areas. The Plan will consider economic factors that affect development, such as land values, land requirements, market area standards and current development prototypes. In addition, the plan shall identify incentives such as, but not limited to, density bonuses to encourage infill and redevelopment. (Policy 3.3.1-r)

FLU2.1.2 The Infill Master Plan will evaluate the County's redevelopment needs and capacities.

Comprehensive Plan (/agencies-departments/community-development/offices/planning-office/comprehensive-plan/index.stml)

Amending the Comprehensive Plan (/agencies-departments/community-development/offices/planning-office/comprehensive-plan/amending-comprehensive-plan.stml)

Comprehensive Plan Documents (/agencies-departments/community-development/offices/planning-office/comprehensive-plan/comprehensive-plan-documents/)

Evaluation and Appraisal Reports (/agencies-departments/community-development/offices/planning-office/comprehensive-plan/evaluation-appraisal-reports.stml)

How to Determine a Property's Future Land Use

Comprehensive Plan Documents

Comprehensive Plan 2040 (https://library.municode.com/fl/osceola_county/codes/comprehensive_plan)

Data and Analysis (/agencies-departments/community-development/offices/planning-office/comprehensive-plan/comprehensive-plan-documents/data-and-analysis.stml)

Future Land Use Maps (/agencies-departments/community-development/offices/planning-office/comprehensive-plan/comprehensive-plan-documents/future-land-use-maps.stml)

Transportation Maps (/agencies-departments/community-development/offices/planning-office/comprehensive-plan/comprehensive-plan-documents/transportation-maps.stml)

Live Chat

Designation (/agencies-departments/community-development/offices/planning-office/comprehensive-plan/how-determine-flu-before-applying-cpa.stml)

Urban Growth Boundary (UGB) (/agencies-departments/community-development/offices/planning-office/comprehensive-plan/urban-growth-boundary.stml)

Administration Building - Community Development Department

Hours
M-Th: 7:30AM - 5:00PM;
Fri: 9:00AM-5:00PM

Phone
(407) 742-0200

Address
1 Courthouse Square,
Suite 1400
Kissimmee, FL 34741

Contact Us (/locations/30239-administration-building-community-development-department.stml)

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Live Chat

Lobbying Information (http://dashboard.osceola.org/Agenda.aspx?id=50#Lobbying)

ADA Notice of Compliance (/agencies-departments/human-resources/ada-accommodations.stml)

Civil Rights Program (/agencies-departments/human-resources/civil-rights-program.stml)

HIPAA Privacy Notice (/agencies-departments/human-resources/hipaa-policies.stml)

Public Notices (//apps.osceola.org/Apps/PublicNotices/)

MyOsceola Mobile App (/myosceola.stml)

(//www.facebook.com/OsceolaCountyFL)

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Osceola County Comprehensive Plan 2025

Goals, Objectives and Policies
Adopted August 16, 2010
Prepared by
Osceola County Planning & Design Division

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OSCEOLA COUNTY

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POLICY 6.21: *TRANSPORTATION/UTILITY CORRIDORS*

Conservation Lands and Agricultural Lands may incorporate transportation and utility corridors as identified, designed, permitted and subsequently approved by governing regulatory authorities. At the time of recordation of conservation easements or agricultural easements, as the case may be, identified transportation/utility corridors shall be reserved, and the easements shall otherwise accommodate future transportation and utility corridors. Such transportation/utility corridors shall be designed and located in a manner that avoids or minimizes impacts to the identified Conservation Lands and is consistent with the Management Plans. Each corridor shall be restricted to rights of way for one or more transportation facilities as defined in section 334.03, F.S., and telecommunications lines, electrical transmission and distribution lines, pipelines for liquefied or gaseous substances, and other compatible linear infrastructure. In consultation with the Florida Fish and Wildlife Conservation Commission, rights of way for such facilities shall minimize impacts to wetlands and wildlife habitat and shall make adequate provision for the protection of wildlife movement. Conservation or Agricultural Lands traversed by transportation or utility corridors will not necessitate the preservation of additional lands to achieve the ratios set forth in Policy 6.5.

OBJECTIVE 7: AGRICULTURE

Ensure that the North Ranch Planning Area maintains sustainable agriculture through continued economically viable ranching and farming during and after development.

POLICY 7.1: *RESERVED AGRICULTURAL RIGHTS*

Areas designated as Agricultural Lands on Map 4 (Environmental Plan) shall have their developmental uses restricted in perpetuity by agricultural easements based on the procedures set forth in Policies 6.5, 6.6, and 6.7. Rights reserved to the grantor, including those set forth in Policy 6.9.3, shall be set forth in the agricultural easements, which shall replace and supersede the Land Protection Agreement as to lands addressed by each easement.

All areas of the North Ranch Planning Area, other than those designated as Conservation Lands or Agricultural Lands, shall retain the right to all agricultural or silvicultural uses or other natural resource-based operations or similar new uses allowed by law.

OBJECTIVE 8: RESERVOIR RESOURCES

Ensure that the North Ranch Planning Area maintains a sustainable alternative water supply during and after development through the use of reservoirs. Reservoirs provide an alternative water supply and function as breeding areas for amphibians, foraging areas for wading birds and reptiles, food chain support, habitat for aquatic- and wetland-dependent wildlife species, and floodwater storage. Such values contribute to the Environmental Plan.

POLICY 8.1: *TAYLOR CREEK RESERVOIR*

The Taylor Creek Reservoir consists of 7,104 acres (approximately 3,191 acres of wetlands and 3,913 acres of surface water), assuming the operating schedule is increased to its designed maximum operating level of 46 feet NGVD29. Management practices in effect upon the adoption of the North

APPENDIX C

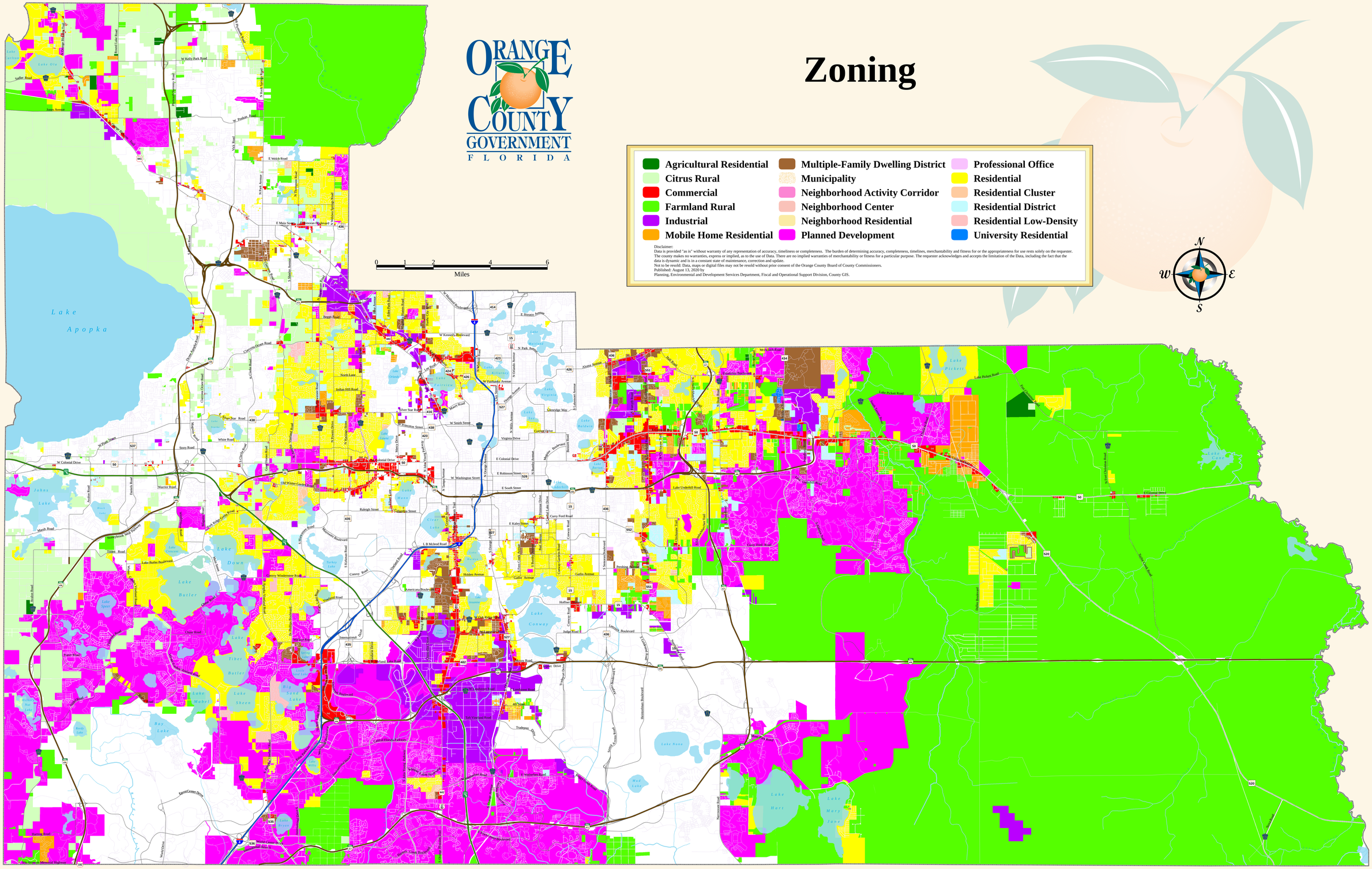
COUNTY AND MUNICIPAL ZONING MAPS

RANGE 27 EAST | RANGE 28 EAST | RANGE 29 EAST | RANGE 30 EAST | RANGE 31 EAST | RANGE 32 EAST | RANGE 33 EAST | RANGE 34 EAST

TOWNSHIP 20 SOUTH | TOWNSHIP 21 SOUTH | TOWNSHIP 22 SOUTH | TOWNSHIP 23 SOUTH | TOWNSHIP 24 SOUTH

Zoning

ORANGE COUNTY GOVERNMENT
FLORIDA



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- Neighborhood Center
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- Residential District
- Residential Low-Density
- University Residential

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Published: August 13, 2020 by
Planning, Environmental and Development Services Department, Fiscal and Operational Support Division, County GIS.

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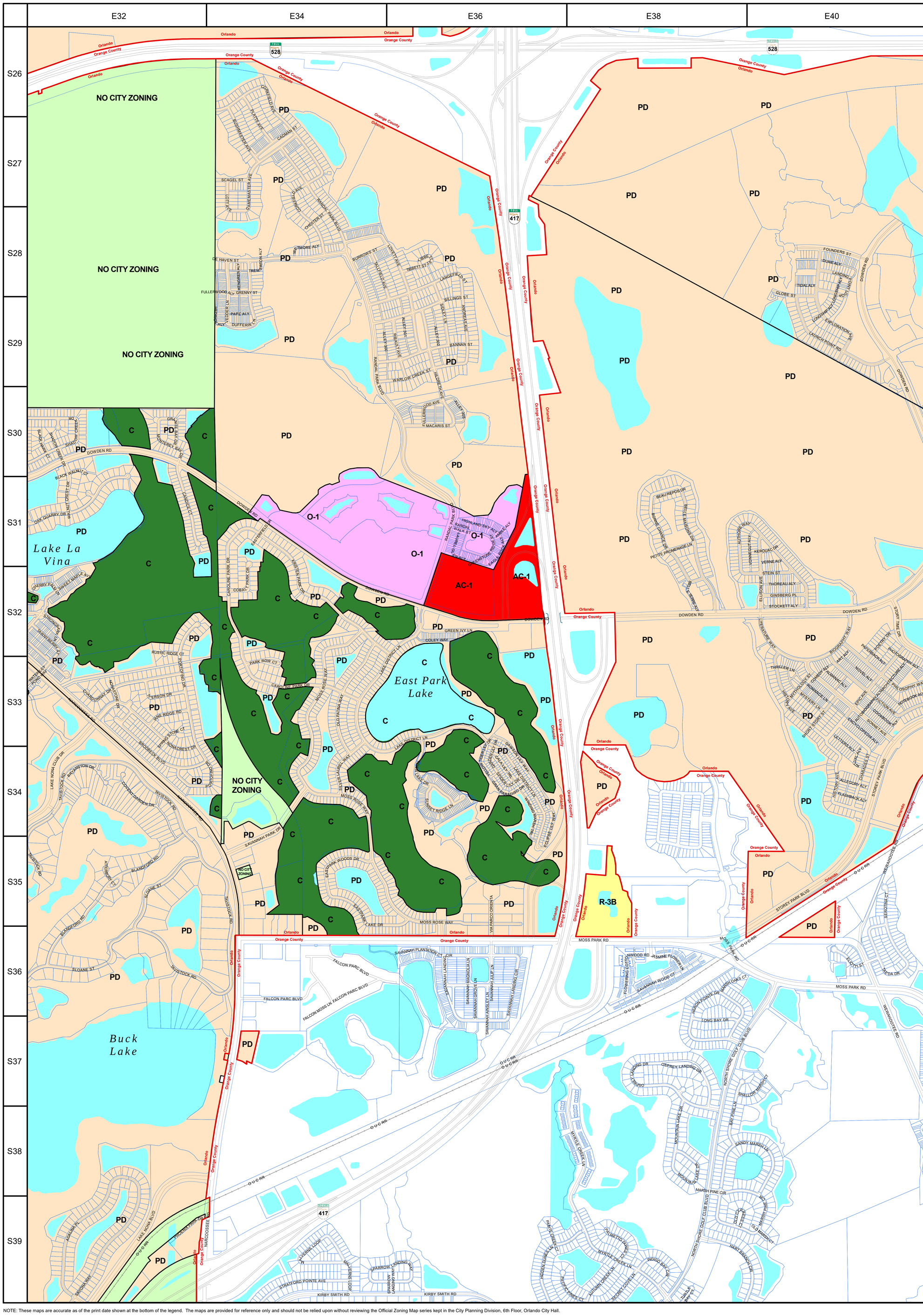

City of Orlando

Zoning Map Series
Economic Development Department
City Planning Division
Adopted By City Council September 25, 1995; Document #28772

Zoning Districts Map 22

LEGEND

Example:

R-2A/T/HP/SP
Zoning District
Overlay District

Residential Districts

- R-1s — One Family Residential (Includes R-1N, R-1, R-1A, R-1AA) *See Land Development Code, Chapter 58, Figure 1*
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On 12/14/98, Ordinance #31770
On 09/25/00, Ordinance #33274
On 11/13/00, Ordinance #33388
On 06/04/01, Ordinance #33837
On 10/15/01, Ordinance #0110151002
On 09/09/02, Ordinance #020909702
On 08/25/03, Ordinance #030825708
On 08/09/04, Ordinance #040809903
On 04/11/05, Ordinance #050411902
On 08/29/05, Ordinance #050829902
On 03/20/06, Ordinance #060320101
On 01/11/07, Ordinance #070111022
On 08/20/07, Ordinance #070820101
On 03/17/08, Ordinance #080317101
On 04/27/09, Ordinance #090427110
On 10/18/10, Ordinance #101018110
On 10/18/10, Ordinance #101018107
On 01/09/12, Ordinance #120109120
On 12/03/12, Ordinance #121203120
On 10/21/13, Ordinance #131021120
On 11/25/13, Ordinance #131125120
On 12/16/13, Ordinance #131216120
On 05/12/14, Ordinance #140512120
On 05/12/14, Ordinance #140512120
On 07/13/15, Ordinance #150713120
On 12/14/15, Ordinance #151214120
On 03/14/15, Ordinance #160314120
On 10/24/16, Ordinance #161024120
On 07/10/17, Ordinance #170710120
On 07/10/17, Ordinance #170710120
On 12/11/17, Ordinance #171211120
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Notes/Definitions

NOTE: See Land Development Code for Specific Regulations

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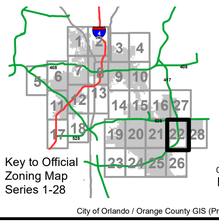

Key to Official Zoning Map Series 1-28

N

0 250 500 1,000
Feet

City of Orlando / Orange County GIS (Printed: March 13, 2020)

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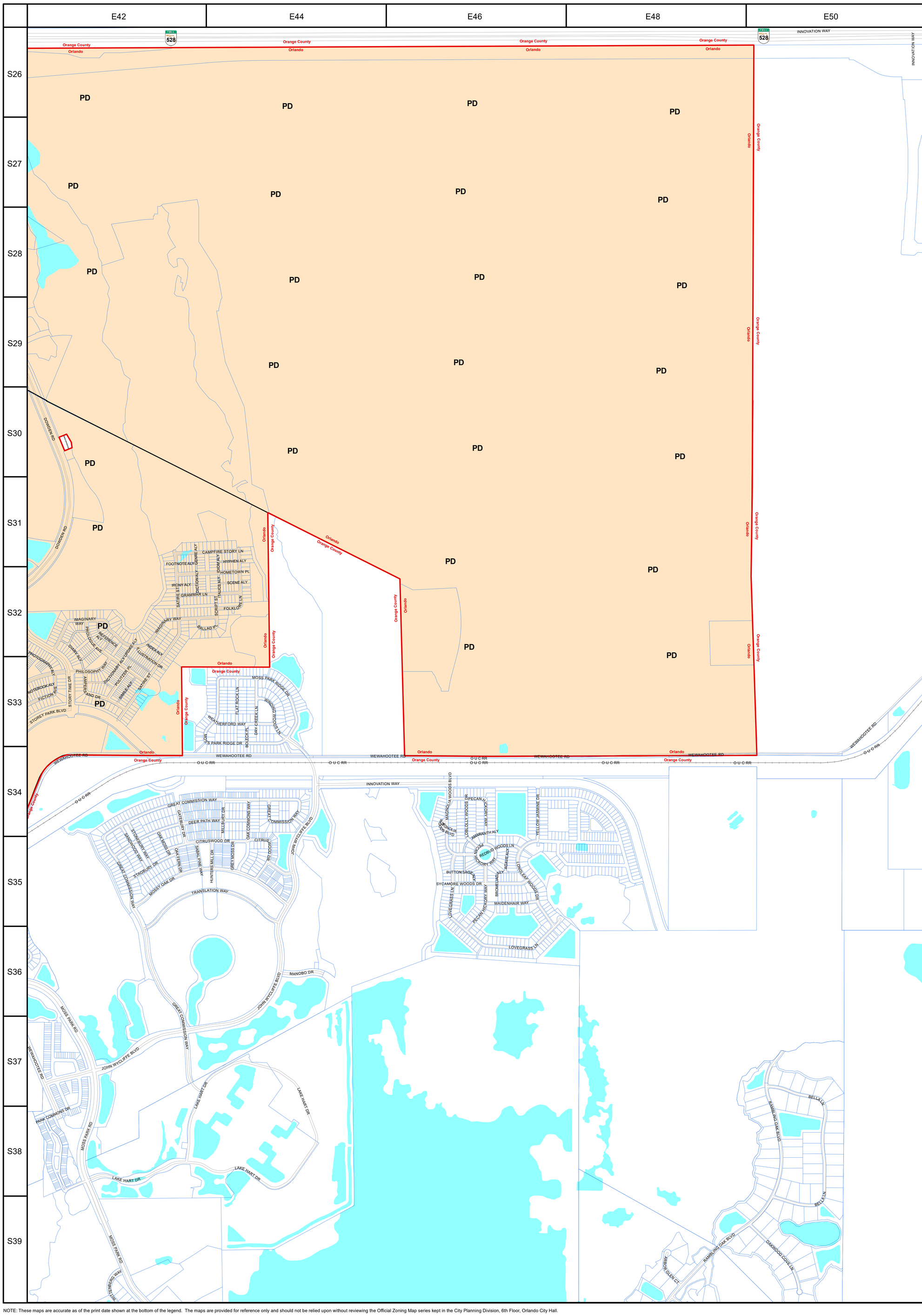

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Adopted By City Council September 25, 1995; Document #28772

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LEGEND

Example:

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Amended by City Council:

On 11/25/13, Ordinance #1311251202
On 12/16/13, Ordinance #1312161202
On 12/14/15, Ordinance #1512141201
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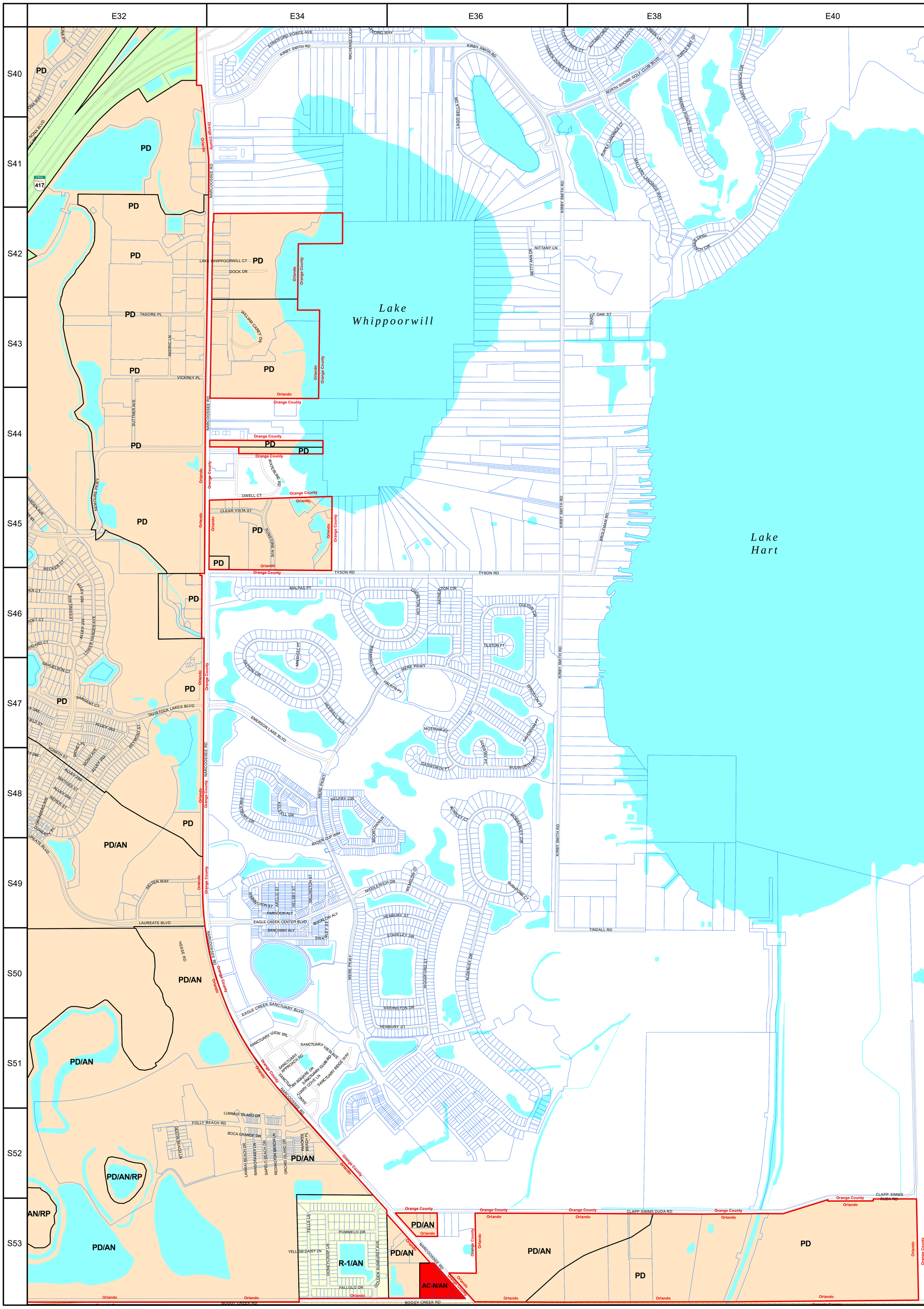

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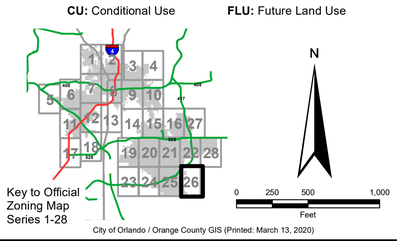

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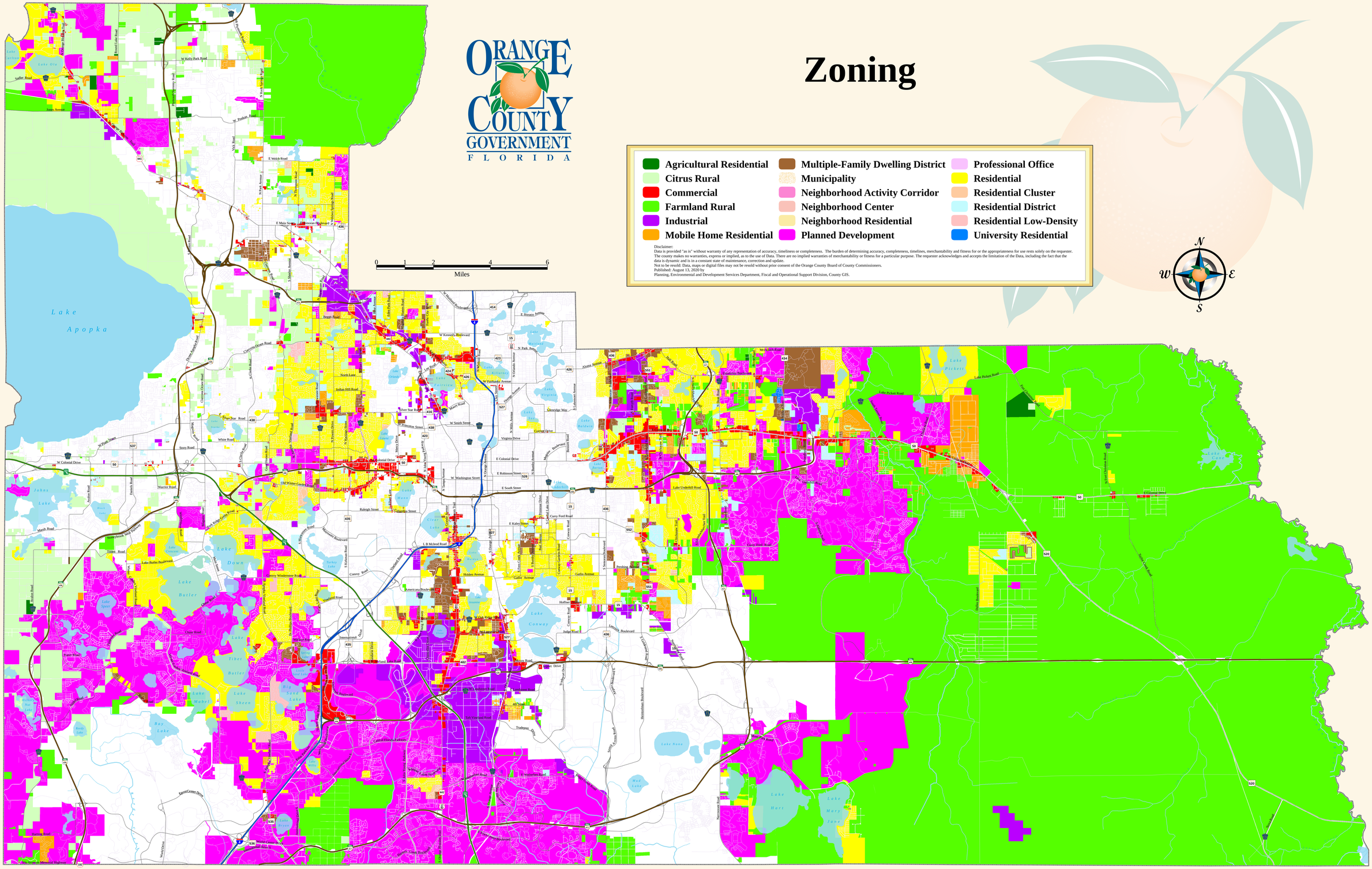

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ARTICLE V. - NOISE POLLUTION CONTROL

> *Footnotes:*
> *--- (**5**) ---*
> ***State Law reference—** Motor vehicle noise, F.S. §§ 316.293, 403.415.*

Sec. 15-176. - Title.

This article shall be known and may be cited as the "Noise Control Ordinance of Orange County, Florida."

(Code 1965, § 21B-1; Ord. No. 86-26, § 1, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 2008-19 , § 2, 9-30-08; Ord. No. 2014-17 , § 1, 6-24-14)

Sec. 15-177. - Authority.

This article is enacted pursuant to Article II, § 7, Florida Constitution, which provides that adequate provision shall be made by law for the abatement of excessive and unnecessary noise, and under the home rule power of Orange County, Florida, specifically, F.S. § 125.01(1), and the County Charter.

(Code 1965, § 21B-2; Ord. No. 86-26, § 2, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 2014-17 , § 1, 6-24-14)

Charter reference— General powers of county, § 103.

Sec. 15-178. - Scope.

This article shall be effective throughout the unincorporated area of the county.

(Code 1965, § 21B-3; Ord. No. 86-26, § 3, 10-27-86; Ord. No. 2014-17 , § 1, 6-24-14)

Charter reference— Conflicts between county ordinances and municipal ordinances, § 704.

Sec. 15-179. - Purpose; intent; authority and responsibility of environmental protection officer and investigating officer.

(a) The purpose of this article is to prevent, prohibit, and also provide for the abatement of, excessive and unnecessary noise, known as noise disturbance, in order to protect the health, safety, and general welfare of people of the county.

(b)

It is the intent of this article to clearly define and describe the respective authority and responsibility under this article for the environmental protection officer and the investigating officer relating to noise disturbance investigation and enforcement, unless the noise disturbance is otherwise exempt under this article.

(c) The environmental protection officer shall have the authority pursuant to this article to investigate and, if applicable, issue a notice of violation or civil citation as provided in this article in any case involving a noise disturbance emanating from residential property under construction or a nonresidential property that exceeds the allowable limits set forth in section 15-182 of this article.

(d) The investigating officer shall have the authority pursuant to this article to investigate and, if applicable, issue a civil or criminal citation for a violation of the plainly audible standard, as established in section 15-183(b), and noise disturbance complaints which may involve the consumption of alcohol or any suspected illegal activities and noise disturbance complaints involving "breach of the peace" as defined in F.S. § 877.03.

(Code 1965, § 21B-5; Ord. No. 86-26, § 5, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 2008-19 , § 3, 9-30-08; Ord. No. 2014-17 , § 1, 6-24-14)

Editor's note— Ord. No. 2014-17 , § 1, adopted June 24, 2014, amended § 15-179 and in so doing changed the title from "Purpose" to "Purpose; intent; authority and responsibility of environmental protection officer and investigating officer."

Sec. 15-180. - Terminology, standards, and definitions.

(a) *Terminology and standards*. All technical acoustical terminology and standards used in this article that are not defined in subsection (b) shall be read or construed in conformance with the American National Standards Institute, Inc., ("ANSI") publication entitled "Acoustical Terminology," designated as ANSI standard 1.1-1994.

(b) *Definitions*. The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, unless the context clearly indicates a different meaning:

(1) *A-weighted sound pressure level* shall mean the sound pressure level, in decibels, as measured on a sound level meter using the A-weighting network. The level so read shall be designated as dB (A-wt).

(2) *ANSI* shall mean the American National Standards Institute, Inc.

(3)

Background noise level shall mean the sound pressure level of the all-encompassing noise emanating from a given environment, usually being a composite of sounds from many sources.

(4) *Breach of the peace* shall mean as defined in F.S. § 877.03.

(5) *Construction* shall mean any site preparation, assembly, erection, substantial repair, alteration, or similar action, for or on public or private thoroughfares, structures, utilities or similar property.

(6) *Decibel* or *dB* shall mean a unit for describing the amplitude of sound, equal to twenty (20) times the logarithm to the base ten (10) of the ratio of the pressure of the sound measured to the reference pressure, which is twenty (20) micronewtons per square meter.

(7) *Development permit* shall have the meaning as described in F.S. § 163.3164.

(8) *Demolition* shall mean any dismantling, destructing or razing of structures, utilities, public or private thoroughfares, or similar property.

(9) *Emergency* shall mean any occurrence or circumstance involving actual or imminent physical death or trauma, environmental harm, or property damage, demanding immediate emergency work or service.

(10) *Emergency work* or *emergency service* shall mean any labor performed for the purpose of preventing or alleviating, or attempting to prevent or alleviate, an emergency, or work by private or public utilities when restoring utility service.

(11) *Environmental protection officer* shall mean the county environmental protection officer, as defined in this chapter, or his/her designee.

(12) *Equivalent sound pressure level (Leq)* shall mean a sound level descriptor based on the average acoustic intensity over time. Leq is intended as a single number indicator to describe the mean energy or intensity level over a specified period of time during which the sound level fluctuated, Leq is measured in dB and must be A-weighted.

(13) *Impulsive sound* shall mean a sound of short duration, usually less than one (1) second and of high intensity, with an abrupt onset and rapid decay. Examples of sources of impulsive sound include explosions, or pile driver impacts.

(14) *Intermittent sound* shall mean a sound of greater than one (1) second duration and less than fifteen (15) minutes. Examples of sources of intermittent sound are air compressors, heating and air conditioning units and PA speakers.

(15) *Investigating officer* shall mean the Orange County Sheriff or duly authorized Orange County Deputy Sheriff.

(16) *Motor vehicle* shall mean any vehicle defined as "motor vehicle" by F.S. § 320.01(1).

(17) *Noise* or *noise disturbance*, for purposes of this article, shall mean any sound produced in such quantity and for such duration that it annoys, disturbs or injures a reasonable individual of normal sensitivities, and exceeds the sound level limits set forth in this article or is plainly audible.

(18) *Noise-sensitive zone* shall mean a quiet zone where serenity and quiet are of extraordinary significance, which is open or in session. Noise-sensitive zones include schools, public libraries, churches, hospitals, nursing homes, and other areas defined as such pursuant to a resolution adopted by the board of county commissioners.

(19) *Person* shall mean an individual, association, partnership, or corporation, including any officer, employee, department, agency or instrumentality of the United States, the state or any political subdivision thereof.

(20) *Plainly audible* shall mean any noise or noise disturbance produced by any source, or reproduced by a radio, tape player, television, CD player, electronic audio equipment, musical instrument, sound amplifier or other mechanical or electronic sound making device that can be clearly heard by a person using his/her normal hearing faculties, at a distance as defined in subsection 15-183(b)(1) from the property line or right-of-way line of the source of the noise disturbance. When the particular sound or noise involves words or phrases, sound or noise may be deemed as "clearly heard" even though the investigating officer cannot determine the specific words or phrases being uttered or produced. The detection of a rhythmic bass reverberating type of noise disturbance is sufficient to constitute a plainly audible sound or noise.

(21) *Property line* shall mean an imaginary line along the surface of land or water, and its vertical plane extension, which separates the real property owned, rented or leased by a person from the real property owned, rented or leased by another person. Where the real property owned, rented or leased by a person abuts a waterbody, the term "property line" shall mean the established normal high water elevation of the waterbody.

(22)

Public right-of-way shall mean any street, avenue, boulevard, highway, sidewalk, alley, or similar place normally accessible to the public which is owned or controlled by the state, county, or municipality.

(23) *Residential area* shall mean an area of unincorporated Orange County that predominantly includes residential properties, i.e., single-family and multifamily dwellings, townhouses or timeshare condominiums.

(24) *Sound* shall mean an oscillation in pressure, stress, particle displacement, particle velocity or other physical parameter, in a medium with internal forces. The description of sound may include any characteristic of such sound, including duration, intensity, and frequency.

(25) *Sound level* shall mean the weighted sound pressure level obtained by the use of a metering characteristic and weighting A as specified in American National Standards Institute specifications for sound level meters (ANSI standard 1.4-1983). If the weighting employed is not indicated, the A-weighting shall apply.

(26) *Sound level meter* shall mean an instrument which includes a microphone, amplifier, RMS detector, integrator or time averager, output meter, and weighting network used to measure sound pressure levels. The output meter reads sound pressure level when properly calibrated. The sound level meter shall be of Type 2 or better, as specified in the American National Standards Institute publication entitled "Specifications for Integrating-Averaging Sound Level Meters" designated as ANSI standard S1.43-1997 and any subsequent revision thereof.

(27) *Sound pressure* shall mean the instantaneous difference between the actual pressure and the average or barometric pressure at a given point in space, as produced by the presence of sound energy.

(28) *Sound pressure level* shall mean a twenty (20) times the logarithm to the base ten (10) of the ratio of the root mean square sound pressure to the reference pressure of twenty (20) micronewtons per meter squared. The sound pressure level is denoted Lp (or SPL) and is expressed in decibels.

(Code 1965, § 21B-6; Ord. No. 86-26, § 6, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 2008-19 , § 4, 9-30-08; Ord. No. 2014-17 , § 1, 6-24-14)

Cross reference— Definitions and rules of construction generally, § 1-2.

Sec. 15-181. - Findings of fact.

(a) Excessive and unnecessary noise interferes with the quality of life and can interfere with the health, safety and general welfare of the public.

(b) In particular, excessive and unnecessary noise can cause adverse psychological and physiological effects on humans.

(c) A substantial body of science and technology exists by which noise may be measured and substantially abated.

(d) The provisions and prohibitions contained in this article are enacted in pursuance of and for the purpose of securing and promoting the public health, safety, welfare and quality of life in the county for its inhabitants.

(Code 1965, § 21B-7; Ord. No. 86-26, § 7, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 2008-19 , § 5, 9-30-08; Ord. No. 2014-17 , § 1, 6-24-14)

Sec. 15-182. - Maximum permissible sound levels; land use categories; times; and measurement descriptors.

TABLE 1
MAXIMUM ALLOWABLE SOUND LEVEL LIMITS
(measured with sound level meter)

Land Use Category	Measurement	Time of Day	Sound Level Limit (dBA)
Noise Sensitive Zone	Time Averaged (LEQ)	Any time	55 dB
	Impulsive	7:00 a.m.—10:00 p.m.	60 dB
	Impulsive	10:01 p.m.—6:59 a.m.	Not allowed
Residential Area	Time Averaged (LEQ)	7:00 a.m.—10:00 p.m.	60 dB

	Time Averaged (LEQ)	10:01 p.m.—6:59 a.m.	55 dB
	Impulsive	7:00 a.m.—10:00 p.m.	65 dB
	Impulsive	10:01 p.m.—6:59 a.m.	Not allowed

(Code 1965, § 21B-8; Ord. No. 86-26, § 8, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 96-4, § 1, 1-9-96; Ord. No. 2008-19 , § 6, 9-30-08; Ord. No. 2014-17 , § 1, 6-24-14)

Sec. 15-183. - Measurement or assessment of noise.

(a) *Measurement with a sound level meter*.

(1) Sound shall be measured with an integrating-averaging sound level meter satisfying at least the applicable requirements for a Type 2 meter or better, as specified in the American National Standard Institute publication entitled, "Specifications for Integrating-Averaging Sound Level Meters" designated as ANSI standard S1.43-1997.

(2) Calibration of all instruments, components, and attachments shall conform to the latest ANSI standards.

(3) Measurements of sound under this subsection shall be made by individuals trained in a noise measurement program approved by the county.

(4) Sound shall be measured outdoors, no closer than the nearest noise sensitive zone or residential area property line.

(5) All sounds shall be measured for a period not less than fifteen (15) minutes in duration, except as provided in subsections (a)(6) and (a)(7).

(6) Intermittent sounds shall be measured within a sixty-minute period. A minimum five (5) minute Leq of the sound shall be required to evaluate if a violation exists.

(7) Impulsive sounds shall be measured for only the duration of the sound.

(8) Except when site conditions are prohibitive, measurements shall be taken at approximately five (5) feet above the ground or water surface and at least five (5) feet away from any obstruction or reflecting surface.

(9) At sites with background noise levels which are at, or in excess of, the applicable allowable levels of Table 1, the maximum allowable noise level will be three (3) dB above the allowable levels of Table 1, or one (1) dB above background, whichever is greater.

(b) *Assessment of noise without sound level meter.*

(1) No person shall create a sound that is plainly audible at the time and distance requirements set forth in the following Table 2:

TABLE 2

Underlying Land Use Category (from which noise emanates)	Time of Day	Distance
Residential Area	7:00 a.m.—10:00 p.m.	500 feet or more
	10:01 p.m.—6:59 a.m.	150 feet or more
Nonresidential Area	7:00 a.m.—10:00 p.m.	500 feet or more
	10:01 p.m.—6:59 a.m.	300 feet or more

(2) Noise disturbances in violation of subsection 15-183(b)(1) shall be confirmed by the investigating officer. The investigating officer who hears a noise disturbance that may be plainly audible shall assess the noise disturbance by measuring the distance from the property line or right-of-way line of the source of the noise disturbance according to the following standards:

a. The primary means of detection shall be the investigating officer's normal hearing faculties, provided the investigating officer's hearing is not enhanced by any mechanical or medical device, such as a hearing aid.

b. The investigating officer shall have a direct line of sight and hearing to the real property that is the source of the noise disturbance so that the investigating officer can identify the offending source of such noise disturbance and the distance involved.

(Code 1965, § 21B-9; Ord. No. 86-26, § 9, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 2008-19 , § 7, 9-30-08; Ord. No. 2014-17 , § 1, 6-24-14)

Sec. 15-184. - Prohibited acts.

Subject to the provisions of sections 15-185 and 15-186, no person shall produce, cause to be produced, or allow to be produced, by any means, any noise disturbance on any private or public property, including a right-of-way, when such noise is plainly audible or when such noise is measured pursuant to section 15-183 and, where applicable, exceeds the applicable sound level limits set forth in section 15-182.

(Code 1965, § 21B-10; Ord. No. 86-26, § 10, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 2008-19 , § 8, 9-30-08; Ord. No. 2014-17 , § 1, 6-24-14)

Sec. 15-185. - Exemptions.

The provisions of section 15-184 shall not apply to the following sounds:

(1) Lawn maintenance activities, from 7:00 a.m. until 10:00 p.m.;

(2) Railway locomotives or cars activity conducted in accordance with federal laws and regulations;

(3) Church or clock carillons, bells or chimes from 7:00 a.m. until 10:00 p.m.;

(4) Aircraft and airport activity conducted in accordance with federal laws and regulations;

(5) Law enforcement activities, including training;

(6) Emergency signals during emergencies;

(7) Emergency signal testing between 7:00 a.m. and 7:00 p.m.;

(8) Emergency work or emergency service;

(9) Generators used during or as a result of an emergency;

(10) Motor vehicles operating on a public right-of-way subject to F.S. § 316.293 and applicable federal criteria;

(11) Refuse collection vehicles, including street sweepers, while in the process of performing their intended activities;

(12) Construction or demolition activities, other than the placement of concrete as described in subsection (13) below, for which the county has issued a development permit, provided such activity occurs between 7:00 a.m. and 10:00 p.m.;

(13) Placement of concrete associated with nonresidential development activities, for which the county has issued a development permit, when conducted between 3:00 a.m. and 10:00 p.m. If placement of concrete is planned to occur prior to 7:00 a.m., notice shall be provided to surrounding residential areas or noise sensitive zones with a minimum of forty-eight (48) hours notice prior to commencement of this activity. A copy of the notice and distribution list shall be provided to the environmental protection officer at least forty-eight (48) hours prior to commencement of this activity;

(14) Construction activities related to city, county, state or federal roads, highways or freeways;

(15) Scheduled organized activities at a publicly-owned or operated facility;

(16) The supervised public display of fireworks by fair associations, amusement parks, and other organizations or groups of individuals or other lawful use of fireworks;

(17) Unamplified human voices;

(18) Any motor vehicle engaged in a professional or amateur sanctioned, competitive sports event for which admission or entry fee is charged, or practice or time trials for such event, at a facility being used for such purposes as of October 15, 1995; and

(19) Outdoor events for which the organizer has been issued a special outdoor event permit by Orange County, provided it is conducted in accordance with such permit.

(Code 1965, § 21B-11; Ord. No. 86-26, § 11, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 96-4, § 2, 1-9-96; Ord. No. 2008-19 , § 9, 9-30-08; Ord. No. 2014-17 , § 1, 6-24-14)

Sec. 15-186. - Variances.

(a) The environmental protection officer may grant a variance from any provision of section 15-182 or 15-184.

(b)

Any request for a variance from the requirements of this article shall be considered by the environmental protection officer and granted only when it is found that hardship would result from strict compliance with the provision from which a variance is sought. The environmental protection officer shall grant approval of a variance upon the determination that (1) the hardship is not self-imposed; (2) the variance is necessary; and (3) the intent and purposes of this article are achieved in granting the variance.

(c) Any person seeking a variance shall submit an application to the environmental protection officer. At a minimum, the applicant shall provide the following information:

(1) Identification of applicant;

(2) Applicant's mailing address;

(3) Legal description of property from which the sound will emanate;

(4) Description of source of sound;

(5) Description of sound;

(6) Names and addresses of all abutting property owners; and

(7) Facts and reasons justifying a variance.

(d) The applicant for a variance shall tender an application fee in an amount determined by the board of county commissioners.

(e) The environmental protection officer shall schedule a hearing on the variance application. The environmental protection officer shall notify the applicant for a variance and all abutting property owners no less than ten (10) days before the hearing of the time, date, and place of the hearing. If the variance application stems from a complaint, then the environmental protection officer shall notify the complainant.

(f) At the hearing, the applicant may submit any relevant evidence or testimony. In deciding whether to grant or deny the application, the environmental protection officer shall consider the hardship which will result to the applicant, the community, and other persons if the variance is not granted, versus the adverse impact on the health, safety, and general welfare of persons if the variance is granted. The environmental protection officer shall grant or deny the variance application no later than ten (10) days after the date of the hearing. In granting or denying a variance application, the environmental protection officer shall state in writing on the application the reasons for the decision. If the decision is to grant the application, the environmental protection officer shall set forth the terms and conditions of the variance.

(g) Any person aggrieved by the decision of the environmental protection officer may

appeal pursuant to the provisions of section 15-38.

(Code 1965, § 21B-12; Ord. No. 86-26, § 12, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 2008-19 , § 10, 9-30-08; Ord. No. 2014-17 , § 1, 6-24-14)

Sec. 15-187. - Enforcement/penalty.

(a) It shall be unlawful for any person to violate any provisions of this article, or any provisions of any resolution enacted pursuant to this article. The provisions of this article may be enforced by notice of violation, civil citation, or criminal citation. Any person not in compliance with this article, or any provisions of any resolution enacted pursuant to the authority of this article, may be prosecuted in accordance with chapter 11 of this Code or as provided in section 1-9 of this Code. Each violation shall be considered a separate offense.

(b) When a complaint is investigated by the environmental protection officer, pursuant to subsection 15-179(c), and a determination is made that a violation of this article has occurred without the issuance of the appropriate variance as provided in section 15-186 of this article, or not in accordance with this article, the environmental protection officer shall promptly issue a written notice of violation or civil citation. If and when issued, a civil citation shall be issued pursuant to the requirements provided at F.S. § 162.21, which shall be punishable by a fine of two hundred dollars ($200.00) for the first offense and four hundred dollars ($400.00) for the second offense. A third and each subsequent violation of the same provision requires a mandatory court appearance and may be punishable by a fine of five hundred dollars ($500.00). If and when issued, a notice of violation shall include a description of the site where the violation has occurred, cite the provisions of this article and other applicable laws that have been violated, and set forth the required remedial action or actions to be taken as deemed reasonable and necessary by the county. Such remedial action may include:

(1) Modification of the structure or business causing the violation in order to comply with applicable local, state or federal laws or regulations;

(2) Any other actions consistent with the purpose and intent of this article or other applicable laws in order to ameliorate the adverse impacts of the violation; and

(3) Administrative and civil penalties.

(c) (1)

When a noise complaint is received and referred to the investigating officer for investigation, pursuant to subsection 15-179(d), and upon personal investigation the investigating officer finds probable cause to believe the owner or operator of the real property at issue is in violation of this article, the investigating officer may issue a written warning to cease and desist the violation.

(2) If the owner or operator of the real property does not take corrective action regarding such a cease and desist warning within a reasonable time, which is defined to be fifteen (15) minutes or less, or if the noise or sound is abated after the warning and then reoccurs within one hundred eighty (180) days of the time of abatement, the owner or operator of the real property at issue may be found guilty of a civil infraction, with a maximum penalty in an amount not to exceed five hundred dollars ($500.00).

(3) Upon determination that a violation of this article has occurred, the investigating officer may issue a civil citation pursuant to the requirements provided at F.S. § 162.21, which shall be punishable by a fine of two hundred dollars ($200.00) for the first offense and four hundred dollars ($400.00) for the second offense. A third and each subsequent violation of the same provision requires a mandatory court appearance and may be punishable by a fine of five hundred dollars ($500.00) or by criminal citation as provided in section 1-9 of this Code.

(d) If the person cited elects to pay the applicable reduced civil penalty for a first or second violation, the person shall be deemed to have admitted the infraction and waived the right to a hearing. If the person cited fails to pay the civil penalty by the fourteenth day after issuance of the citation or fails to request a court hearing within the time prescribed, the person shall have waived any right to contest the citation, and a judgment shall be entered against the person cited in an amount up to the maximum civil penalty, which shall not exceed five hundred dollars ($500.00).

(e) Any person violating this article shall be liable for all costs incurred by the county in connection with enforcing this article or any provisions of any resolution enacted pursuant to this article, including, without limitation, attorneys' fees and investigative and court costs.

(Code 1965, § 21B-15; Ord. No. 86-26, § 15, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 2008-19 , §§ 11, 12, 9-30-08; Ord. No. 2014-17 , § 1, 6-24-14)

Sec. 15-188. - No liability for reasonable, good faith trespass by enforcement officer or authorized designee or sheriff or deputy sheriff.

The environmental protection officer, the investigating officer, any other authorized code enforcement officer, and the county shall be immune from prosecution, civil or criminal, for reasonable, good faith trespass upon private property while in the discharge of duties under this article.

(Code 1965, § 21B-17; Ord. No. 86-26, § 17, 10-27-86; Ord. No. 95-31, § 1, 9-26-95; Ord. No. 2008-19 , § 14, 9-30-08; Ord. No. 2014-17 , § 1, 6-24-14)

Sec. 15-189. - Reserved.

Editor's note— Section 13 of Ord. No. 2008-19 , adopted Sept. 30, 2008, repealed § 15-189, which pertained to other remedies, and derived from § 21B-16 of the 1965 code; Ord. No. 86-26, adopted Oct. 27, 1986; Ord. No. 92-12, adopted April 7, 1992.

Sec. 15-190. - Reserved.

Editor's note— Section 14 of Ord. No. 2008-19 , adopted Sept. 30, 2008, renumbered § 15-190 as § 15-188.

Sec. 15-191. - Administration.

The board of county commissioners may adopt such resolutions as are necessary to effectively administer this article.

(Code 1965, § 21B-18; Ord. No. 86-26, § 18, 10-27-86; Ord. No. 2014-17 , § 1, 6-24-14)

Secs. 15-192—15-215. - Reserved.

DIVISION 1. - GENERALLY

Sec. 15-276. - Findings of fact and statement of purpose.

(a) The board of county commissioners has determined that requirements for protection of trees in the unincorporated area of the county are not only desirable, but are essential to ensuring the health and general well-being of the community and that the

required use of such restrictions is a proper use of the police powers. The general removal of trees should be appropriately controlled and where possible, existing trees should be preserved on-site as property is developed.

(b) The Orange County Comprehensive Policy Plan Conservation Element policy 1.12.1 states: "Orange County shall augment its protection of vegetated resources in urban areas, including but not limited to the tree protection ordinance. This action would ensure that high quality trees would receive greater protection in the development review process, require preservation of valuable tree species, prohibit indiscriminate clearing, require replacement and maintenance measures, and establish ratios for replacement if removal is unavoidable."

(c) The requirements of this article generally maintain a balance between important environmental concerns and compatible development. In so doing they:

(1) Allow development while encouraging the establishment of an acceptable amount of tree coverage on public and private lands within unincorporated Orange County.

(2) Maintain existing trees in a healthy and non-hazardous condition through good arbor practices.

(3) Establish and maintain appropriate diversity in tree species and age classes to provide a healthy and sustainable urban/suburban forest.

(d) Trees are proven producers of oxygen, a necessary element for the survival of mankind; they reduce the level of carbon dioxide in the air, dilute air pollutants and reduce noise.

(e) Trees play a pronounced and important role in countywide soil conservation, soil enrichment and erosion control.

(f) Trees enhance the value of property by providing a valuable psychological and visual counterpoint to manmade changes during land development and urbanization.

(g) Trees provide wildlife habitat and play other important ecological roles.

(h) Trees make the county more visually and aesthetically attractive to existing and prospective residents and visitors in addition to enhancing the community's sense of place.

(i) Trees screen and absorb pollutants including but not limited to dust, traffic noise and other pollutants.

(j)

Trees protect the community from climatic extremes by providing shade and windbreak protection and by moderating temperatures within neighborhoods, parking lots, etc.

(k) Trees reduce the quantity of surface runoff and reduce the velocity of erosion and sediment transfer.

(l) Trees help purify stormwater runoff by removing nutrients prior to the runoff entering the aquifer.

(Ord. No. Code 1965, § 19A-14; Ord. No. 85-33, § 1, 12-9-85; Ord. No. 2001-19, § 2, 11-6-01)

Sec. 15-277. - Definitions.

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Arborist shall mean a qualified professional, employed by the County, with experience in the field(s) of landscape architecture, arbor science, forestry, or other related field.

Caliper shall mean a measurement of the size of a replacement tree at a predetermined point. Trunk diameter for trees up to four (4) inches is to be measured six (6) inches above the soil line. Trees four (4) inches in diameter and greater will be measured twelve (12) inches above the soil line.

Canopy tree shall mean a species of tree which normally grows to a mature height of forty (40) feet or more.

Champion tree shall mean any tree that has been designated as the largest tree of its species in the state of Florida as measured by trunk diameter at breast height and crown diameter. These may include any species not listed on the restricted stock list.

Clearing shall mean the removal of a tree by digging, pushing or cutting, burning, or having the effect of removal through damage. Soil disturbance such as root raking or compaction shall also be considered clearing, if trees or their root systems are damaged in the process.

Conservation areas shall mean lands which have unsuitable or nonrated soils, wetland vegetative species, are seasonally flooded and perform an environmental function, as described in the county's comprehensive policy plan.

Developable area shall mean the gross land area of a site excluding natural surface waterbodies and designated conservation areas.

Diameter at breast height (DBH) shall mean a measurement of the size of a tree equal to the diameter, in inches, of a tree measured at four and one-half (4½) feet above the existing grade. For multi-trunked trees, the DBH shall mean the cumulative diameter of the three largest trunks, measured two (2) feet above the existing grade.

Drip-line shall mean a vertical line from the horizontal extremity of the canopy of a tree to the ground. For trees with canopies set off-center from the trunk, an area bounded by the average diameter of the drip-line will be centered on the point at which the trunk of the tree is rooted.

Pre-existing lot shall mean any existing lot that is part of a preliminary subdivision plan approved prior to the adoption of this ordinance.

Preserved trees shall mean trees that are designated to remain after construction and count toward replacement requirements per this article.

Professional surveyor shall mean a person licensed by the State of Florida as a professional surveyor and mapper pursuant to Chapter 472, Florida Statutes.

Protected tree shall mean any tree, on the recommended stock list, which is identified in the protection zones as described in section 15-301(e). Unless exempted, all of these trees are subject to a tree removal permit per this article.

Replacement trees are trees planted to replace existing trees as required by section 15-283.

Residential lot trees shall mean trees that are required to be planted on residential lots per section 15-306. These trees are required to be a minimum of eight (8) feet tall and have a minimum caliper of two (2) inches and are to be selected from the recommended stock list in section 15-283(a).

Severely trimming shall mean the cutting of branches and/or trunk of a tree in a manner which will substantially reduce the overall size of the tree area so as to destroy the existing symmetrical appearance or natural shape of the tree. This includes trimming or cutting in a manner, which results in the removal of main lateral branches leaving the trunk of the tree in a stub appearance.

Specimen trees shall mean live oak and magnolia trees twenty-four (24) inches DBH or greater. Specimen trees shall also include Champion trees as defined in this article.

Tree shall mean any living, woody self-supporting perennial plant which normally grows to a minimum height of fifteen (15) feet.

Trees, stands of, shall mean a naturally occurring grouping of five (5) or more trees forming a canopy of vegetation which results in a single unified drip-line.

Understory tree shall mean a species of tree which normally grows to a mature height of fifteen (15) to thirty-nine (39) feet.

Zoning manager shall mean the manager of the Orange County Zoning Division or his/her designated arborist.

(Ord. No. Code 1965, § 19A-42; Ord. No. 85-33, § 3, 12-9-85; Ord. No. 91-29, § 2(Exh. A), 12-10-91; Ord. No. 2001-19, § 3, 11-6-01)

Sec. 15-278. - Permits required.

(a) It shall be unlawful for any person to, or cause to, destroy, permanently injure, or remove any protected tree as defined in this article without first obtaining a tree removal permit or other removal authorization or otherwise establish that the protected tree qualifies for an exception or exemption as provided in this article.

(b) Nothing contained in this ordinance shall be deemed to impose any liability upon the county, its officers, or employees, nor to relieve the owner of any private property from the duty to keep any tree, shrub, or plant upon any area of his/her property or under his/her control in such condition as to prevent it from constituting a hazard or an impediment to travel or vision upon any private road or public right-of-way, park, or other public place within the county.

(c) Nothing contained herein shall prevent a property owner from maintenance or trimming of trees on his/her property. In fact, proper trimming should be a necessary responsibility of every property owner such that no severe tree trimming occurs.

(Ord. No. Code 1965, § 19A-43; Ord. No. 85-33, § 3, 12-9-85; Ord. No. 2001-19, § 4, 11-6-01)

Sec. 15-279. - Exceptions and exemptions.

(a) *Exceptions.* A tree removal permit shall not be required for the following tree removal activities, unless the area is designated as a conservation area.

(1) Public road or public drainage rights-of-way, utility rights-of-way, or permanent utility easements and/or drainage tracts.

(2) Access roads for private developments through Protection Zone "A" as defined in section 15-301(e)(1)b.

(3) The trees listed in section 15-283(b) (restricted stock).

(4) Trees less than eight (8) inches DBH.

(5) Underbrush, including palmetto and shrubs, provided that such removal does not adversely affect trees (other than those specified above) within their drip-line.

(6) Removal of whole live trees for sale as nursery stock by a *bona fide* commercial tree nursery.

(7) Land used for *bona fide* agriculture and classified as such for property-tax purposes by the Orange County Property Appraiser. However, before removing protected trees on any such agricultural land designated by the county's comprehensive policy plan as either "urban service area," "growth center," or "village land use," a tree-removal permit must be obtained, but the removed trees are not required to be replaced as otherwise required under this article. If at anytime before the eighth anniversary of the date the tree-removal permit was issued either the *bona fide* agricultural use ceases, except in cases of bankruptcy, or the landowner or his or her agent applies for a land-use change or a development order or permit, the trees removed pursuant to the tree-removal permit shall then be replaced as required under this article, and approval or issuance of the requested land-use change or development order or permit (if applicable) may be withheld until the replacement requirements have been fulfilled.

(8) Individual deteriorated or damaged trees, including trees which have deteriorated as a result of age, fire, freeze, disease, lightning, or other acts of nature and which may constitute a hazard to life or property. If more than five (5) trees are to be removed, the zoning manager shall verify said deterioration or damage.

(9) Trees located on a single-family residential lot, which is two (2) acres or less in size, and contains an occupied residential dwelling.

(10) Certified Affordable Housing Projects as defined by Orange County Administrative Regulations Section 11.02.06, as it may be amended from time to time, shall meet the requirements of this ordinance. Such projects, however, shall not be subject to the tree removal application fees.

(11) Developments with a valid Preliminary Subdivision Plan (PSP), development plan or construction plan approved prior to the effective date of the ordinance.

(b) *Exemptions.* In the case of a County-declared emergency such as a hurricane, flood or other disaster, the requirements of this article may be waived so as not to hamper public and/or private work to restore order.

(c) The removal of any tree shall require adequate wind and water erosion control

measures as well as compliance with any other applicable county codes.

(Ord. No. Code 1965, § 19A-44; Ord. No. 85-33, § 4, 12-9-85; Ord. No. 2001-19, § 5, 11-6-01)

Sec. 15-280. - Jurisdiction of article.

The terms and provisions of this article shall apply to all real property lying within the unincorporated areas of the county.

(Code 1965, § 19A-45; Ord. No. 85-33, § 5, 12-9-85)

Charter reference— Conflicts between county ordinances and municipal ordinances, § 704.

Sec. 15-281. - Variance, appeal and penalty.

(a) *Deviations from regulations.* The zoning manager may grant deviations from any provision of this article where the strict application of the provision to a particular site would create a substantial economic hardship, or to facilitate an affordable housing project where a certified affordable housing certificate exists. In all cases, reasonable efforts must be made to preserve trees per this article. The zoning manager may grant deviations from any provision of this article only when the applicant demonstrates that the purposes of this article will be or has been achieved by other means. If the zoning manager denies a request for deviation from this article because the applicant did not demonstrate that the purposes of the article will be or has been achieved by other means, then the applicant may appeal the decision of the zoning manager to the Development Review Committee (DRC), and the DRC shall review the zoning manager's decision pursuant to the standards set forth in section 34-27, Orange County Code.

(b) *Variance.* Upon application by the property owner, the preservation of any tree on the recommended stock list over twenty-four (24) inches DBH may be considered as the basis for the granting of a variance by the Board of Zoning Adjustment (BZA) from the literal application of the provisions of the county's zoning regulations set forth in section 30-43 or subdivision regulations set forth in sections 34-27, 34-28 and 34-29. An administrative variance to chapter 24, Landscaping, Buffering and Open Space requirements regarding landscape islands may be granted to allow for the preservation of a healthy specimen tree as defined in this article. The number, spacing and configuration of landscape islands may be reduced, altered, or reconfigured to encourage the preservation of specimen trees.

(c) *Enforcement Official.* The zoning manager, code enforcement officer, or other county designees shall be empowered to issue citations and evaluate a site for its compliance with this article.

(d) *Appeals.* Any person adversely affected by the decision of the zoning manager or other county official in the enforcement or interpretation of this article may appeal such decision to the DRC within thirty (30) days. Such appeal shall be made by requesting a hearing in writing to the chairman of the DRC. Such request shall include a summary of the decision being appealed and the basis for the appeal.

Any person adversely affected by the decision of the DRC may appeal such decision to the board of county commissioners by submitting a letter to the chairman of the DRC. Said appeal must be made within thirty (30) days of decision by the DRC. If the decision of the DRC being appealed is related to some application or process which requires a board of county commissioners public hearing, then the appeal shall be heard and considered concurrent with the public hearing on the application. If the decision of the DRC being appealed does not otherwise require a board of county commissioners public hearing, then the appeal shall be promptly forwarded to the board of county commissioners for consideration.

Any person adversely affected by the board of county commissioners' decision may file a petition for a writ of certiorari in the Circuit Court of the County. Such action shall be instituted in accordance with section 30-90.

(e) *Penalty for violation.* Violations of this article shall be subject to the following:

(1) Where violations of this article have occurred, remedial action shall be taken to restore the property consistent with a restoration plan approved by the zoning manager. The restoration plan shall include payment of the required application fee, require tree replacement, and require mitigation of any other damage to the property. Remedial action must be taken within 60 days of receipt of notice of violation or as approved by the zoning manager.

(2) No certificate of occupancy or certificate of completion shall be issued for any development until all applicable permits or restoration plan conditions have been accomplished.

(3) Trees removed without a permit or destroyed or which received major damage in violation of section 15-282 must be replaced before the issuance of a certificate of completion or certificate of occupancy by any or any combination of the following:

a. A comparable size and type tree;

b. Replacement at a two (2) to one (1) ratio of the cumulative caliper of the trees to be installed to the cumulative DBH of the trees removed, destroyed or damaged. Replacement trees shall be chosen from the recommended stock list per section 15-283 and shall be installed in accordance with section 15-282; or

c. Payment into the county tree fund in an amount equal to the cost of the two (2) to one (1) ratio replacement per section 15-281(e)(3)b, above.

(4) Specimen trees removed without permit or destroyed or receiving major damage in violation of section 15-282 must be replaced by any of or any combination of the following:

a. Replacement at a four (4) to one (1) ratio of the cumulative caliper of the trees to be installed to the cumulative DBH of the specimen trees removed. Replacement trees shall be chosen from the recommended stock list. All trees shall be installed in accordance with section 15-282 before issuance of a certificate of completion or certificate of occupancy; or

b. Payment into the county tree fund in an amount equal to the cost of the four (4) to one (1) replacement per section 15-281(e)(4)a. above.

(5) Failure to comply with required remedial action shall be referred to the code enforcement board.

(6) If the county code enforcement board finds any person in violation of any provision of this article or any condition of any permit issued pursuant to this article, then that person shall be subject to the tree replacement requirements of section 15-281(e) and a penalty not exceeding the sum of five hundred dollars per offense or violation. Each tree, removed, damaged or destroyed, may constitute a separate offense and violation of this article. Each day that a violation of any provision of this article or any permit condition is allowed to continue, including the failure to replace any tree removed, damaged or destroyed pursuant to the provisions of this article, may constitute a separate offense and violation of this article.

(f) *Rules and regulations.* The board of county commissioners is hereby authorized to adopt by resolution such rules and regulations as are necessary or proper to implement this article.

(g) *Fees.* Appropriate fees shall be established by the board of county commissioners and amended by resolution as necessary.

(Ord. No. Code 1965, § 19A-53; Ord. No. 85-33, § 13, 12-9-85; Ord. No. 2001-19, § 6, 11-6-01)

Sec. 15-282. - Tree protection and maintenance during and after development and construction.

(a) Following development approval, it shall be unlawful for any person, during the construction of any structures or other improvements, to place solvents, material, construction machinery or soil deposits within the drip-line of any tree which is designated to remain.

(b) It shall be the responsibility of the permittee to ensure that any tree or stand of trees designated to remain be protected with protective barriers during construction. Barriers for the designated protected trees shall be in place prior to any land clearing occurring near protected trees designated to remain. The property owner shall guarantee survival of retained or replacement trees for one (1) year from the issuance of a certificate of completion, or until the issuance of a certificate of occupancy on single-family residential lots. All trees installed to meet the requirements of this article shall be planted and irrigated in accordance with Orange County Code Chapter 24, Landscaping, Buffering and Open Space.

(c) Protective barriers shall be placed at points not closer than six (6) feet from the base of the tree or at the radius of the drip-line of the protected tree or stand of trees, whichever is greater. If circumstances exist that require encroachment of the drip-line, the zoning manager may use discretion in allowing the barriers to be placed closer to the tree trunk. Each section of the barrier shall be clearly visible (flagged with brightly colored plastic tapes or other markers). No attachments or wires other than those of a protective or nondamaging nature shall be attached to any tree.

(d) The zoning manager or other county designees may conduct periodic inspections of the site. It is the responsibility of the property owner and the permittee to ensure that all provisions of this article are met.

(e) Impervious surfaces placed beneath the drip line of any preserved tree shall not exceed forty percent (40%) of the drip-line area and shall not be placed closer than six feet from the trunk of any such trees without prior approval from the zoning manager or as allowed per Orange County Code section 24-4(a) for vehicular use areas. [See section 15-281(a) regarding administrative variances to save specimen trees.]

(f) All preserved trees shall have their natural soil level maintained. Tree wells and/or planter islands shall be provided, if necessary, to maintain the natural existing soil level of at least seventy-five percent (75%) of the drip line.

(g)

Trees planted or retained as required by this article shall not be trimmed or severely pruned so as to appear stunted. Trees shall be pruned as needed to maintain health and form in such a way that retains or improves the natural form of that tree species. Improper pruning techniques shall be as determined by the zoning manager. All tree pruning shall be conducted according to the latest edition of the Natural Arborist Association Standards. Trees damaged or destroyed due to improper trimming or severe pruning shall be replaced in accordance with section 15-281(d).

(Ord. No. Code 1965, § 19A-51; Ord. No. 85-33, § 11, 12-9-85; Ord. No. 2001-19, § 7, 11-6-01)

Sec. 15-283. - Recommended, replacement, restricted, and specimen trees.

(a) *Recommended stock.* The following tree replacement species are suggested because they are native to the region and/or their proven performance in Central Florida. The following trees may be used as replacement stock without prior approval. All other replacement trees must be approved by the zoning manager.

Botanical Name	Common Name	C/U (Canopy or Understory)
Acer rubrum	Red maple	C
Aesculus pavia	Red buckeye	U
Betula Nigra	River Birch	U
Carya floridana	Scrub hickory	C
Carya glabra	Pignut hickory	C
Carya glabra negacarpa	Coast pignut hickory	U
Carya illinoinensis	Pecan	C
Cercis canadensis	Red Bud	U
Chionanthus virginicus	Fringe Tree	C
Cornus florida	Flowering dogwood	U
Cornus foemina	Swamp dogwood	U
Fraxinus pennsylvanica	Green Ash	C
Gordonia Lasianthus	Loblolly bay	U
Ilex cassine	Dahoon holly	U
Ilex opaca	American holly	U
Juniperus virginiana	Southern red cedar	C
Lagerstroemia indica	Crepe Myrtle	U
Ligustrum japonicum	Ligustrum	U
Liquidambar styraciflua	Sweet gum	C
Liriodendron tulipfera	Tulip tree	U

Magnolia grandiflora	Southern magnolia	C
Magnolia virginiana	Sweet bay	U
Nyssa sylvatica	Black Gum	C
Osmanthus americanus	Wild olive-Devilwood	U
Persea borbonia	Red bay	U
Pinus elliotti	Slash Pine	C
Pinus palustris	Long Leaf Pine	C
Pinus taeda	Loblolly Pine	C
Platanus occidentalis	Sycamore	C
Prunus angustifolia	Chickasaw plum	U
Quercus falcata	Southern Red Oak	C
Quercus geminata	Sand live oak	C
Quercus incana	Blackjack oak	U
Quercus inopina	Scrub oak	U
Quercus laevis	Turkey oak	C
Quercus Laurifoilia	Laurel oak	C
Quercus michauxii	Swamp Chestnut Oak	C
Quercus myrtifolia	Myrtle oak	U
Quercus nigra	Water oak	C
Quercus shumardii	Spanish oak; Shumard Oak	C
Quercus virginiana	Live oak	C
Sabal Palmetto	Sabal or Cabbage Palm	U
Taxodium ascendens	Pond cypress	C
Taxodium distichum	Bald cypress	C
Ulmus alata	Winged elm; Cork elm	C
Ulmus parvifolia	Chinese Elm	C

(b) *Restricted stock.* The following trees may not be used as replacement stock within the unincorporated areas of the county due to their exotic invasive nature or otherwise undesirable characteristics: (Also includes all plants listed on the Florida Exotic Pest Plant Council list, categories I and II.)

Botanical Name	Common Name
Albizzia julibrissin	Mimosa
Broussonetia papyrifora	Paper mulberry
Casuarina species	Australian pine
Enterlobium contortisliquum	Ear tree
Eucalyptus camuldulensis	Cama eucalyptus
Grevillea robusta	Silk oak
Jacaranda acutifolia	Jacaranda

Leucaena species	Lead tree
Melaleuca species	Cajeput or punk tree
Melia azedarch	Chinaberry
Sapium sebiferum	Chinese tallow tree
Schinus terebinthifolius	Florida holly or Brazilian pepper
Terminalia catappa	Tropical Almond

(c) *Specimen trees.* Reasonable efforts should be made to preserve specimen trees (as defined in section 15-277). A permit to remove a specimen tree shall be granted when one or more of the following items do not allow for reasonable options to preserve the tree(s):

(1) Grading and drainage requirements for the site;

(2) The construction of a building;

(3) The installation of required utilities;

(4) Access to and immediately around proposed structures; or

(5) Parking lot requirements.

If approved for removal by the zoning manager, specimen trees shall be replaced at a ratio of two (2) to one (1) of the cumulative caliper of the trees to be installed to the cumulative DBH of the trees removed. Notwithstanding the ratios established immediately above, commercial lots under ten thousand (10,000) square feet shall be required to replace specimen trees at a one-to-one ratio of the cumulative caliper of the trees installed to the cumulative DBH of the trees removed.

(d) *Replacement.* Protected trees identified for removal on the tree survey, other than pine trees, shall be replaced by trees identified on the recommended stock list, section 15-283(a).

(1) Replacement of non-specimen trees shall be based on a one-to-one ratio of the cumulative DBH of the trees to be removed to the cumulative caliper of the trees to be installed. *(For example: a 21" DBH tree to be removed shall be replaced by seven (7) 3" Caliper trees or three (3) 7" Caliper trees, or any combination of replacement trees that total the total DBH removed.)* Specimen trees shall be replaced on a two-to-one ratio of the cumulative caliper of the trees to be installed to the cumulative DBH of the trees removed. Notwithstanding the replacement requirements of this paragraph, section 15-283(d), no applicant may be required to replace more than ninety caliper inches per acre (prorated for fractional acres) for

each development approval or permit, as the case may be, upon demonstration that the applicant has avoided the removal of protected trees to the maximum extent practicable. The replacement requirements of this paragraph shall not apply to pine trees harvested during a *bona fide* silvicultural operation.

(2) All replacement trees are to be Florida Nursery Standard #1 or better.

(3) Fifty percent (50%) or more of the canopy trees used for replacement shall be a minimum of ten (10) feet in height and have a caliper no less than three (3) inches. Twenty-five percent (25%) or less of the canopy trees used for replacement shall be a minimum of eight (8) feet in height and have a caliper of no loss than two (2) inches.

(4) Understory trees shall not make up more than twenty-five percent (25%) of the total number of trees planted to meet the required replacement for the site. Understory trees used for replacement shall be a minimum of four (4) feet in height and have a caliper no less than one and a half inches.

(5) Replacement trees and preserved trees (three [3] inch caliper or greater) may count toward meeting the planting requirements of Orange County Code Chapter 24, Landscape Buffering and Open Space.

(6) Healthy preserved trees on site, including pine trees on the recommended stock list, shall count toward meeting the replacement requirements of this section per the following:

a. Fifty percent (50%) or more of the preserved trees applied toward replacement credit shall be three inches in caliper or greater.

b. Twenty five percent (25%) or less of the preserved trees applied toward replacement credit may be a minimum of two (2) inches in caliper.

c. Twenty five percent (25%) of the preserved trees applied toward replacement credit may be understory trees as defined in this article.

d. The cumulative DBH of specimen trees preserved on site shall count two (2) to one (1) toward meeting the total replacement requirement.

(7) Trees located within a designated conservation area shall not count toward replacement requirements of this article.

(e) *Tree replacement trust fund.* There is hereby created a tree replacement trust fund, a separate fund of the county which shall receive all funds collected as tree replacement fees and mitigation fees.

(f) *Tree replacement fees.* Tree replacement fees shall be established by the board of county commissioners and updated as necessary to cover the cost of replacing the trees, including materials and labor.

(g) *Disbursement of funds.* Disbursement from the tree replacement trust fund shall be made only with the approval of the Board of County Commissioners, and only for the following purposes:

Primarily for purchase of trees for planting at a publicly owned and operated site or other community enhancement project such as the County Streetscape Program or as deemed appropriate by the Board of County Commissioners.

Secondarily for purchase of landscape materials or equipment, or the funding of educational programs which promote, enhance or implement the goals and objectives as established in section 15-276.

(Ord. No. Code 1965, § 19A-52; Ord. No. 85-33, § 12, 12-9-85; Ord. No. 2001-19, § 8, 11-6-01)

Secs. 15-284—15-300. - Reserved.

Sec. 21-5. - Cutting or destroying shade trees.

(a) The removing, cutting, marring, defacing, or destroying of any shade tree, either by direct personal action or by causing any other person to take such action, within any public road or public right-of-way is prohibited unless prior written permission to remove, cut, mar, deface, or destroy such tree has been granted by the division of public works.

(b) For purposes of this section, the term "shade tree" shall mean any tree within the following list:

Common Name	Scientific Name
Ash, Green	Fraxinus pennsylvanica
Blolly	Guapira discolor
Bottlebrush	Callistemon spp.
Camphor tree	Cinnamomum camphora
Cherry Laurel	Prunus caroliniana
Copperpod	Peltophorum pterocarpum
Elm, American	Ulmus americana
Elm, Chinese	Ulmus parvifolia
Golden Shower Tree	Koelreutaria elegans

Hickory, Pignut	Carya glabra
Hornbeam, American	Carpinus caroliniana
Indian Rosewood	Dalbergia sissoo
Jacaranda	Jacaranda mimosaefolia
Lancewood	Nectandra coriacea
Lynchee	Litchi chinensis
Macadamia Nut	Macadamia integrifolia
Magnolia, Southern	Magnolia grandiflora
Maple, Red	Acer rubrum
Oak, Bluejack	Quercus incana
Oak, Laurel	Quercus laurifolia
Oak, Live	Quercus virginiana
Oak, Myrtle	Quercus myrtifolia
Oak, Pin	Quercus palustris
Oak, Shumard Red	Quercus shumardii
Palm, Queen	Arecastrum romanzoffianum
Persimmon	Diospyros virginiana
Pine, Loblolly	Pinus taeda
Pine, Longleaf	Pinus palustris
Pine, Sand	Pinus clausa
Pine, Slash	Pinus elliottii
Red Bay	Persea borbonia
Redbud	Cercis canadensis
Silk-tree	Albizia julibrissin
Sugarberry	Celtis Laevigata
Sweetgum	Liquidambar styraciflua
Sycamore	Platanus occidentalis
Tabebuia, Golden	Tabebuia chrysotricha

(c) The following acts are exempt from subsection (a):

(1) Where the removing, cutting, marring, defacing, or destroying of any shade tree is done by or on behalf of the division of public works; or

(2) Where normal trimming of a shade tree is required to ensure the safe operation of a utility facility and such tree trimming is performed by the utility company in accordance with the provisions of its utility accommodations guide; or

(3) Where normal trimming of a shade tree is done by or on behalf of a single-family residential property owner in front of his residence.

(d) The division of public works may enforce this section by reporting the offender to the state attorney. Each offender shall be punished as provided in section 1-9.

(Ord. No. 90-06, §§ 1—4, 4-9-90)

DIVISION 1. - GENERALLY

Sec. 21-171. - Purpose.

This article is established to regulate the location, installation and adjustment of any facility on county right-of-way or easement and the issuance of permits for such work in the interest of safety and of protection, utilization and future development of the highways and roads, with due consideration given to public service afforded by adequate and economical utility installations, as authorized by the applicable Florida Statutes. While this regulation governs on matters concerning future location, manner and methods for the installation or adjustment and maintenance of utilities on highway right-of-way, it does not alter current regulations pertaining to authority for their installation or determination of financial responsibilities for placement or adjustment thereof.

(Right-of-Way Utilization Regs., § I(A); Ord. No. 91-13, § 3, 5-21-91)

Sec. 21-172. - Authority; scope.

The regulations in this article are enacted under the home rule power of the county for the purpose of providing necessary regulations for use of any county right-of-way or traveled ways and shall apply to all private contractors, private citizens, utility companies, municipalities and to any person or group proposing to install, construct, maintain or repair any facility or structure within any of the existing or planned rights-of-way, or traveled ways or drainage easements, dedicated or planned to be dedicated, to the public or Orange County, or maintained by Orange County, in the interest of the public health, safety and welfare of the citizens and residents of Orange County. This article shall apply to and be enforced in all areas of county jurisdiction.

(Right-of-Way Utilization Regs., § I(B))

Charter reference— General powers of county, § 103.

State Law reference— Powers of chartered counties, Fla. Const. art. VIII, § 1(g).

Sec. 21-173. - Definitions.

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning. The definitions listed in the applicable supporting regulations also apply.

Drainage easement shall mean land in which the public or the county has an easement devoted to, planned, proposed or required for use as a public drainage system.

Emergency repairs shall mean work necessary to protect and preserve life and property of inhabitants of the county.

Facility, for purposes of these regulations, shall mean a structure which has been and/or is being placed and maintained along, across, on or under any road right-of-way within the jurisdiction of the county, including but not limited to any electric transmission, telephone, cablevision, or telegraph lines; pole lines; poles; railways; ditches; sewers; water, heat, or gas lines; heat or gas mains; pipelines; wells; fences; gasoline tanks and pumps; irrigation; landscaping; signage (except off-site directional signs as permitted under Chapter 31.5); or specialty paving.

Right-of-way shall mean land in which the county owns the fee or has an easement devoted to, or required for, the use as a public road.

Road shall be construed to include streets, sidewalks, alleys, highways and other ways open or unopened to travel by the public, including the roadbed, right-of-way, and all culverts, drains, sluices, ditches, water storage areas, waterways, embankments, slopes, retaining walls, bridges, tunnels and viaducts necessary for the maintenance of travel.

Sidewalk/bike path. See "Road."

The traveled way shall mean the paved portion of the roadway or that surface between both edges of pavement or back of curb, including, but not limited to, turn lanes, parking lanes, deceleration and acceleration lanes or twelve (12) feet from centerlines of the rights-of-way of unpaved roads.

(Right-of-Way Utilization Regs., § I(C); Ord. No. 91-13, § 4, 5-21-91; Ord. No. 2004-16 , § 2, 10-19-04)

Cross reference— Definitions and rules of construction generally, § 1-2.

Sec. 21-174. - Penalties for violations.

Violations of the provisions of this article shall be punished as provided in section 1-9.

(Code 1965, § 26-39(b); Ord. No. 81-8, § 3, 4-14-81)

Sec. 21-175. - Stipulations.

(a) It is expressly stipulated, and the permit holder agrees, that the permit issued under this article is a license for a permissive use only and that the placing of facilities upon public property pursuant to this permit shall not operate to create or to vest any property right in the holder thereof and that the issuance of a right-of-way utilization permit does not relieve the permit holder of the need for obtaining any other permits that may be required by the appropriate authorities. The permit holder agrees that the permit may be revoked if the county engineer finds that the work performed thereunder is or will be detrimental to the public interest.

(b) The rights and privileges set out in this article are granted only to the extent of the county's right, title and interest in the land to be entered upon and used by the applicant, and the applicant will at all times assume all risks of and defend the county from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercise by the applicant of the aforesaid rights and privileges.

(c) The construction and/or maintenance of a utility shall not interfere or encroach upon the property and rights of a prior occupant.

(d) Removal and/or relocation of facilities (including but not limited to landscaping, signage and paving). Any facility heretofore or hereafter placed upon, under, over, or along any public road right-of-way that, in the opinion of the county, unreasonably interferes in any way with the convenient, safe, or continuous use, or the maintenance, improvement, extension, or expansion, of such public road or appurtenant structures thereto shall, upon thirty (30) days' written notice to the owner of the facility or its agent, or upon legal notice published in not less than two (2) weekly issues of a newspaper of general circulation in the county, be removed or relocated, and the right-of-way shall be restored to its original condition by, and at the sole expense of, such facility owner (or its agent). The failure of a utility owner or its agent to remove or relocate such facility after the required notice shall absolve the county from any liability for damages that may arise as a result the county's removal of any such utilities.

(Right-of-Way Utilization Regs., § II; Ord. No. 91-13, § 5, 5-21-91)

Sec. 21-176. - Supporting regulations.

(a) When applicable, the provisions of the latest editions of the following shall apply:

(1) Chapter 34 of this Code (subdivision regulations).

(2) Orange County Road Construction Specifications.

(3) Orange County Manual of Standards and Specifications for Wastewater and Water Main Construction.

(4) Florida Department of Transportation Standard Specifications for Road and Bridge Construction.

(5) Regulations for the Transportation of Natural and other Gas by Pipelines (Parts 191 and 192, Title 49 of the Code of Federal Regulations).

(6) State of Florida Department of Transportation Utility Accommodation Guide.

(7) United States Department of Transportation Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD).

(8) Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (Green Book), as published by the Florida Department of Transportation.

(9) Florida Department of Transportation Roadway and Traffic Design Standards.

(b) In the event of a conflict between the provisions of the regulations and specifications referred to in subsection (a) above and these right-of-way utilization regulations, whichever regulation is more restrictive shall apply.

(Right-of-Way Utilization Regs., § III; Ord. No. 91-13, § 6, 5-21-91)

Sec. 21-177. - Appendixes adopted by reference.

The appendixes to the legislation from which this article is derived are adopted by reference. All references in this article to appendixes are to such appendixes.

Sec. 21-178. - Working hours.

Operations permitted by this article shall normally be conducted from 8:00 a.m. to 5:00 p.m., Monday through Friday, excluding holidays. Any deviation from these hours requires prior approval from the county engineer, and any overtime payments for inspection will be billed at current manpower expense rates, and required to be paid by the permittee, in accordance with

current county billing requirements. A minimum of two (2) working days' notice, in writing, requesting deviation from normal working hours, must be provided. Emergency repairs are excluded from this time restriction of the two (2) working days' notice.

(Right-of-Way Utilization Regs., § XVI)

Secs. 21-179—21-195. - Reserved.

Sec. 21-196. - Application.

(a) A single application form approved by the county engineer shall be used when applying for either a right-of-way utilization permit, an underground utility contracting work permit, or both. The applicant shall indicate in the space provided on the application the type or types of permit or permits being applied for. A copy of the permit application is shown in Appendixes A and B.

(b) Applications may be obtained at the county engineer's office at 4200 Whitcomb Avenue, Orlando, Florida, 32809. Applications should also be submitted to this office. A minimum of fourteen (14) days is normally necessary for processing and approval of permit application. The applicant must take this into consideration in planning proposed construction/installation or other work in the right-of-way.

(c) Information provided by the applicant in completing the application form shall be typewritten or printed in ink. The top three (3) copies of the application must be legible and all requested information must be provided. Instructions for completing the application are printed on the reverse side of the application.

(1) A sketch shall accompany the application. The sketch, not necessarily to scale, similar to Appendix C, shall reflect a plan view of the proposed utility installation. This should be a strip-drawing folded to size not to exceed eight and one-half (8½) inches by fourteen (14) inches.

(2) It shall show the offset from the centerline of the right-of-way or road to the proposed utility installation, the road right-of-way width and pavement width, the distance from edge of pavement to the utility, sidewalks, and the location of all other utilities within the area of work.

(3) One (1) or more typical cross sections as required to adequately reflect the location of the utility shall also be shown.

(4) The minimum vertical clearance above or below the parkway or pavement shall be

shown.

(5) Additional information such as the location in relation to the nearest road intersection, bridges, railroad crossings and other physical features shall be indicated on the sketch and identified.

(6) It is desirable that a simple key map showing the location of this proposed facility be included either on the sketch itself, or as a separate sketch to assist all concerned with the general location of the installation, and should indicate the applicable section, township and range.

(d) Upon approval of the application and payment of the fee, one (1) copy of the approved permit application, with attachments, will be returned to the applicant.

(e) If for any reason the project is canceled or not approved, a refund of fees paid in excess of the base fee will be refunded or credited to the applicant's account.

(f) Permits for work within dedicated public right-of-way, in conjunction with a project that requires a preconstruction meeting to be held, pursuant to the provisions of the county subdivision regulations, will not be issued until the required preconstruction meeting has been conducted and required fees paid.

(Right-of-Way Utilization Regs., § X; Ord. No. 91-13, § 7, 5-21-91)

Sec. 21-231. - Location standards.

(a) The primary concern in the design and location of utility installations is protection of the right-of-way and the safety of the highway user. A secondary concern is aesthetics. In all cases, full consideration shall be given to sound engineering principles and design and to economic factors.

(b) Where possible, all longitudinal underground utility facilities should be placed within seven (7) feet inside of the outer edge of the right-of-way line. Above-ground facilities should be placed at or as close as practical to the right-of-way line. If sidewalk removal is required, replacement should be in accordance with Appendix Q or R.

(c) (1)

If an entity owns or maintains one (1) or more sets of poles with accompanying overhead lines along a right-of-way or road, and the entity proposes to install another set of poles along the same right-of-way road, the entity shall co-locate all the lines on a single set of poles along one (1) side of the right-of-way or road. In

doing so, the entity shall utilize the least number of poles, lowest height of poles and poles of uniform height, all in keeping with sound engineering principles and design.

(2) If an entity owns or maintains more than one (1) set of poles with accompanying overhead lines along a right-of-way or road, and the entity is required to remove and relocate some or all of the poles and accompanying overhead lines due to roadway construction along one (1) or both sides of a right-of-way or road, the entity shall co-locate all the lines on a single set of poles along one (1) side of the right-of-way or road. In doing so, the entity shall utilize the least number of poles, lowest height of poles, and poles of uniform height, all in keeping with sound engineering principles and design.

(d) If utility lines are required to be installed underground within a development, extension of any utility lines across a right-of-way or road in order to serve the development shall be accomplished underground consistent with subsection 21-232(b), all in keeping with sound engineering principles and design.

(e) Proposed location of poles, fire hydrants, water meters, etc., should take into consideration future road widening, sidewalk, storm drainage or other construction. Minimum guidelines for roadside recovery area are shown in the State of Florida Department of Transportation Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highway. Deviations require approval by the county engineer.

(f) Water meter boxes shall not be placed within the limits of a proposed or existing sidewalk.

(g) Pursuant to the provisions of the applicable Florida Statutes, no person shall place, maintain or display upon any county road right-of-way any unauthorized sign, signal, marking or device which purports to be or is an imitation or resembles an official traffic-control device or railroad sign or signal, or which attempts to direct the movement of traffic or which hides from view or interferes with the effectiveness of any official traffic-control device or any railroad sign or signal. No person shall place or maintain upon any county roadway any sign or signal bearing thereon any commercial advertising, except as may be authorized by the applicable Florida Statutes and the county, provided that such commercial advertising is also in compliance with applicable

state and local regulations. The county engineer, or his designated representative, is empowered to remove every sign, signal or marking prohibited by this subsection or cause it to be removed without notice.

State Law reference— Similar provisions, F.S. § 316.077; prohibition against duplication of F.S. ch. 316, F.S. § 316.007.

(h) Fences and gates shall not be installed within dedicated public rights-of-way of the county unless the construction of such fence or gate has been permitted by the board of county commissioners in accordance with any applicable Florida Statute. Any unauthorized installation shall be a violation of this section, and the county engineer, or his designated representative, is empowered to remove the same or cause it be removed, without notice, and the board of county commissioners may institute appropriate legal action.

(Right-of-Way Utilization Regs., § VIII; Ord. No. 91-13, § 10, 5-21-91; Ord. No. 97-12, § 2, 7-15-97)

Sec. 21-232. - Crossings.

(a) *General considerations.* The normal crossing under paved surfaces will be made without cutting the pavement. Pavement cuts will be considered only under unusual conditions and permission must be specifically granted on the permit. The primary consideration in evaluating results for any open street cuts will be the safety and convenience of the public.

(1) The minimum depth of cover shall be thirty-six (36) inches from the top of the pipe to the existing and/or proposed surface, unless otherwise directed by the county engineer.

(2) Any deviation from approved materials, location, or operation, shall be grounds for stopping work, directing the plugging of the line with concrete, and restoring the area.

(3) Jetting or tunneling is prohibited.

(b) *Subterranean crossings.* Subterranean crossings shall be subject to the following:

(1) All subterranean crossings of a traveled way, thirty (30) feet or more in width, shall require a tracked type bore and jack, with encased auger. Crossings of traveled ways less than thirty (30) feet may be made by boring, jacking, pushing, pulling,

driving or some combination of these, having a positive horizontal and vertical control. Pits required for these crossings must be constructed no closer than six (6) feet from the edge of the traveled way.

(2) Closed end jacking may be permitted for pipe with a maximum outside diameter of three (3) inches. The pipe shall extend six (6) feet beyond the edge of the travelled way.

(3) All other pipe must be jacked with the end open or bore and jacked and extend a minimum of six (6) feet beyond the edge of travelled way or as directed by the county engineer.

(4) If mechanical boring is used, the tip of the drill head shall not precede the end of the pipe by more than two (2) inches.

(5) All such crossings shall be a continuous operation and be completed, and the pits backfilled prior to ceasing the operation.

(c) *Open street cuts.* Open street cuts shall be subject to the following:

(1) *Traffic maintenance.* As a general rule, a minimum of one (1) lane of traffic must be maintained at all times and adequate safety precautions taken. Any street closures will require a traffic plan submitted at least fourteen (14) days in advance of the proposed closure and approved by the county engineer. If a detour is contemplated, the complete detour route must be indicated. Inclusive dates of the proposed closure must be firm.

a. Prior to closing the street to traffic, the appropriate police and emergency (rescue, fire, etc.) agencies shall be notified. In addition, the county traffic engineer and county school bus superintendent shall be notified.

b. Traffic-control devices in accordance with the Manual on Traffic Control and Safe Practices shall be installed and approved by the engineering inspector prior to starting work.

(2) *Restoration of right-of-way.* Restoration of the right-of-way will be in accordance with the county road construction specifications and the permit requirements. Appendices G through L contained in this article as well as in the county road construction specifications, and incorporated by reference into the Code, are furnished for information and guidance.

(d) *Restoration of sidewalks, concrete curb, driveways, etc.* The restoration of sidewalks, concrete curb, driveways and similar items shall be subject to the following:

(1) Repair of these items requires that a saw cut be made at a joint and all concrete within the area be removed and replaced to a condition equal to or better than existing at the commencement of construction, with like material.

(2) Asphaltic concrete shall be repaired or replaced by saw cutting the asphalt and base for the entire width and replacing the base and asphalt in accordance with the open street cut requirements. In the event of longitudinal driveway cuts, a minimum width of thirty-six (36) inches shall be restored or as directed by the engineering inspector.

(e) *Canals and ditches.* Canals and ditches shall be subject to the following:

(1) The minimum depth of cover for crossings under facilities identified as part of the county's primary drainage system, and county engineer approved secondary facilities, which are of comparable size to the primary facilities, shall be sixty (60) inches from the top of the pipe to the design or existing, actual canal or ditch bottom elevation, whichever results in the greater cover over the crossings. The minimum depth of cover for crossings, under all other canals and ditches, shall be thirty-six (36) inches from the top of the pipe to the design or existing, actual canal or ditch bottom elevation, whichever results in the greater cover over the crossings.

(2) The minimum vertical distance for crossings over any waterways shall be twenty-four (24) inches from the bottom of the pipe to the existing one-hundred-year floodplain elevation. The twenty-four-inch minimum vertical distance shall be implemented for the length of the crossing from the top-of-bank to top-of-bank. The crossing shall not increase the existing one-hundred-year flood elevation. A childproof barrier shall be required for crossings over waterways. The crossing shall not impede maintenance equipment or maintenance operations of the waterways.

(Right-of-Way Utilization Regs., § XII; Ord. No. 91-13, §§ 11, 12, 5-21-91)

Sec. 21-233. - Construction standards.

(a) *Compliance.* All street, curb, sidewalk, driveway curb, etc., construction shall be in accordance with the county road construction specification standards, chapter 34 and this article.

(b)

Piping. Approved pipe for use in county right-of-way is listed in the county road construction specifications. Appendix N contained in this article and incorporated by reference into the Code is furnished for information and guidance.

(c) *Sanitary sewer and water installation.* All work with the exception of backfill and compaction shall be in accordance with the current county standards and specifications for sewerage and water facilities. Backfill and compaction shall be in accordance with the county road construction specifications.

(d) *Gas.* The provisions of the National Standard Code for Pressure Piping as adopted by the Florida Public Service Commission apply.

(e) *Overhead installations.* All overhead installations will comply with the current standards established by the state department of transportation. Poles or other structures to support aerial installations shall be installed at the right-of-way line, or as close as practical.

(f) *Buried utility lines.* Buried utility lines shall be subject to the following:

(1) Minimum vertical clearance for direct buried cable, conduit casings, utility lines, and duct systems is thirty-six (36) inches below road surface and thirty (30) inches below existing ground.

(2) Casings:

a. Casings will be required for crossing of underground utilities under existing pavement, where the carrier conduit is of insufficient strength due to composition or depth of cover.

b. Casings will be required for crossing under existing pavement where the carrier is such composition that it cannot be installed in accordance with section 21-233. Any request for exception to the foregoing requirements must be fully justified in writing by the applicant.

c. Casings or conduits, for crossings of planned or proposed roads, in planned rights-of-way, that are to be installed during the road construction by the road contractor, will not require separate permit; however, they shall be installed in accordance with these regulations. If these crossings are to be installed by other than the road contractor, separate permitting is required, and a permit for such installation must be obtained.

(g)

Storm drainage structures. Installation shall be in accordance with the county subdivision regulations, the county road construction specifications, and this article. Backfill and testing requirements shall be in accordance with the county road construction specifications, these regulations, and the permit requirements.

(h) *Backfill and compaction.* Backfill and compaction shall be in accordance with the county road construction specifications and permit requirements.

(i) *Traffic signals.* Utilities or contractors working at intersections where traffic signals are located must contact the county traffic signal shop for location of underground signal wiring, both within the roadway and right-of-way. Damages incurred to signal wiring will be the responsibility of the permittee. Repairs may be made by contract personnel, but must be made with the concurrence and under the requirements as set forth by county signal maintenance. In some instances, repairs may be made by the county, with total costs billed to the permittee.

(j) *Traffic signs.* When traffic signs are located within the area of approved installation of construction, the permittee is required to notify the county traffic engineer sign shop to arrange for removal and/or relocation. Costs incurred by the county for the removal and resetting, or relocation of signs will be billed to the permittee.

(k) *Pavement markings.* Pavement markings shall be subject to the following:

(1) Utility companies or contractors having permitted installation or construction within paved sections of roadways that disturb or destroy current pavement markings shall be required to replace such pavement markings with approved reflectorized paint or plastic marking material and to restore such markings to their original condition.

(2) When new turn, bypass, deceleration and/or acceleration lanes are constructed in accordance with county engineer approved plans, a striping plan shall be submitted for approval by the traffic engineer. Striping shall be accomplished by the developer in accordance with the approved plans.

(l) *Jetting.* Jetting, except for hydraulic compaction, or tunneling within county rights-of-way is prohibited.

(m) *Fiber optic cable.* Installation of fiber optic cable will not be permitted unless an appropriate legal agreement has been entered into with and approved by the board of county commissioners.

(n) *Faulty workmanship or materials and/or required repairs during construction.*

(1) Faulty workmanship or materials shall be repaired and/or replaced by the permittee within thirty (30) days of receipt from the county of notification of such defects. Such repairs and/or replacement must be completed to the satisfaction of the county, so as to render the subject construction in a like or better condition than that existing prior to the commencement of such construction.

(2) Any repairs or replacement not completed within the thirty-day time limit by the permittee shall, during the period of noncompletion, be considered justifiable grounds for the county to refuse to issue other right-of-way permits to the permittee.

(Right-of-Way Utilization Regs., § XIII; Ord. No. 91-13, §§ 13, 14, 5-21-91)

4.8.5 - LANDSCAPING IN UTILITY SERVICE AREA

A. Proposed overhead or underground utility service facilities shall be designed to provide clearance from the mature height of trees and landscaping proposed on the landscape plan.
B. Existing overhead or underground utility service facilities shall be considered in the design of the landscaping to provide clearance from the mature height of trees and landscaping.
C. Any vegetation within a public utility easement shall conform to accepted vegetation management standards. In all cases the minimum requirements of this Article shall be met.

ARTICLE 4.12 - MISCELLANEOUS

4.12.1 - SOIL EXCAVATION

A. **PURPOSE.** The purpose of this Article is to protect the public health, safety, and welfare through the establishment of reasonable standards for the review and regulation of the location and operation of soil excavation activities. The County shall fairly and equitably allow the operation of soil excavation while at the same time protecting the needs and interests of the County. The following list attempts to set forth the needs and interests of the County to be protected but is in no way complete or limiting:
    1. Compliance with the Comprehensive Plan,
    2. Reuse of property excavated,
    3. Reclamation of excavated area,
    4. Surrounding land use,
    5. Transportation concerns,
    6. Environmentally sensitive areas, including heavily treed sites,
    7. Water quality,
    8. Water quantity,
    9. Drainage,
    10. Public Safety,
    11. Dust control,
    12. Noise levels, and

13. Property values.

B. **GENERAL REQUIREMENTS.** Unless specifically exempted in this Article, it shall be unlawful for any person, firm, or corporation either individually or through an agent to cause soil excavation within the unincorporated areas of Osceola County without having first obtained a soil excavation permit.

Issuance of a soil excavation permit by Osceola County, or exemption from the requirement thereof, does not abrogate any legal requirement to comply with the regulations of any other local, state or federal agency which may have jurisdiction over the proposed activity. The County reserves the right to impose reasonable conditions upon the soil excavation operation which are intended to mitigate the impacts of excavation.

Soil excavation permits are not required in the following circumstances:

1. Soil excavation activities pursuant to an order of the BCC. This order shall state the reasons why the soil excavation regulations do not apply.
2. Soil excavation activities, pursuant to an order of the BCC, which may be requested by a governmental agency, an applicant under another governmental agency, or an order of a court having jurisdiction in Osceola County. The information required for a soil excavation permit shall still be submitted by the applicant for approval unless waived by the County Manager when the applicant shows that such waiver will not adversely impact the public health, safety and welfare.
3. Soil excavation activities within utility rights-of-way, public rights-of-way or easements necessary to supply electric, gas, water, sanitary or storm sewer, telephone, or cable television service, provided these activities do not adversely impact an environmentally sensitive area and a valid underground utility permit or right-of-way utilization permit has been received. This exemption does not include excavation for the construction of detention basins and/or retention basins which otherwise meet the definition of soil excavation.
4. Excavation, in conjunction with commercial, industrial or subdivision construction, as part of an approved SDP, provided that excavation activity shall comply with the provisions of this Article. Excavations performed under this section shall be subject to complete restoration of the property if actual construction of the development's infrastructure is not begun prior to the completion of the excavation.
5.

Excavation for foundations and building pads for any building or structure, provided that the excavation or fill will be confined to the permitted property and that a valid building permit has been issued by the County.

6. Minor landscaping projects, provided they do not encroach in flood prone areas as depicted on the FEMA maps or change the natural drainage pattern of the ground surface at the property line.
7. Swimming pool construction provided a building permit has been issued by the County for construction of the pool.
8. Excavation of agricultural use ponds provided the boundaries for the excavation are wholly within one owner's property, the excavated material remains on-site and off-site drainage is not affected.

C. **LOCATION CRITERIA.** Soil excavation activities requiring a permit shall be allowed outside the Urban Growth Boundary, as defined in the Comprehensive Plan and within the guidelines established herein. Within the Urban Growth Boundary soil excavation activities requiring a permit may only be allowed for a small excavation as defined herein for properties zoned AC or for a bona fide agricultural operation, participating in a best management practice program, subject to the following criteria.

1. Pond size is less than one (1) acre,
2. Only one (1) pond may be permitted per every twenty-five (25) acres of property,
3. Hauling operation shall not exceed ninety (90) days (may be extended one (1) time for no more than an additional ninety (90) days),
4. Hours of operation for loading and hauling shall not be earlier than 7:30 a.m. and no later than 4:00 p.m. during the weekdays (Mondays through Fridays),
5. Loading and hauling operations are prohibited during weekends and holidays, and
6. Operation shall follow all other requirements and fees herein.

D. **REVIEW CRITERIA.** The compatibility of the proposed soil excavation shall be considered in accordance with existing and planned land uses as set forth in the Comprehensive Plan. In making a determination of compatibility, the provisions listed below shall be considered.

1. The nature of existing and planned land uses.
2. The size of the proposed soil excavation:

   Small — less than one (1.0) acre and generating less than ten thousand (10,000) cubic yards of excavation material to be hauled off-site.

Medium — one (1.0) to five (5.0) acres.

Large — greater than five (5.0) and less than twenty-five (25) acres.

3. The effect of increased truck traffic generation on existing and planned uses.
4. The proximity of residences, schools, or hospitals.
5. The proximity to recreational uses such as parks and playgrounds.
6. Impact on the roads and bridges located along the proposed haul route.
7. Adequacy and compatibility of the reclamation plan relative to the natural environment as well as existing and planned uses.
8. Cumulative impact of all permitted (active and inactive) soil excavations within one (1) mile of the proposed soil excavation.
9. Whether the proposed haul routes pass schools or hospitals and whether the increased truck traffic, associated with the soil excavation activity, will adversely affect the conduct of the institution's activities. In evaluating the effect of the truck traffic, the County shall consider the capacity of the road(s) designated as the haul route, and the impact of haul route traffic within nearest intersection to a framework roadway (avenue/boulevard/premium transit corridor) of the boundaries of the institution's property, the hours of operation of the soil excavation and of the institution, the estimated volume of truck traffic, and the location of access to the school, or hospital.
10. Impact on all jurisdictional wetlands within two hundred (200) feet of excavation.
11. Impact on ground water quality.
12. Hours of operation for loading and hauling shall not be earlier than sunrise and no later than one (1) hour prior to sunset, unless additional restrictions are required to meet health, safety and/or welfare considerations. The County Manager may approve an alternative schedule of operations where operations do not adversely impact the health, safety and welfare of the community.

E. **SETBACK DETERMINATIONS.** There shall be no excavation, with the exception of perimeter ditches and recharge ditches, within the setbacks listed below unless otherwise approved by the County Manager.

1. **Open Area Setbacks.** A setback shall be provided in the area lying between the edge of the soil excavation facing the described property and the boundary line of the described property. Prior to establishing the required setback, the County must

find that an open area setback is required to ensure the compatibility of the soil excavation operation with a contiguous property. The County shall consider the following factors in making a determination for the additional setback requirement:

a. Existence of buffering requirements affecting development.
b. Maximum allowable density of residential development of the contiguous property.
c. Density of existing residential uses on the contiguous property.
d. Size of the proposed soil excavation relative to the total size of the soil excavation site.
e. Location of the proposed soil excavation on the property.
f. Existence and location of natural and man-made areas such as trees, lakes, ponds, streams, wells, drainage ways, environmentally sensitive areas, and roads.
g. The reclamation plan.

Other setbacks required by this Code and other applicable rules and regulations as well as existing roads, streets, and other rights-of-way shall be included in the computation of the open area setbacks.

2. **Setback Criteria.** The minimum setbacks shall be:
   a. For Small Excavations — twenty-five (25) feet from the right-of-way; for Medium Excavations — one hundred (100) feet from right-of-way; for Large Excavations — two hundred (200) feet from right-of-way.
   b. Twenty-five (25) feet from the boundary line of a publicly owned drainage or utility easement.
   c. Twenty-five (25) feet from any non-residential property line (defined as a zoning district) for small and medium excavations, and one hundred (100) feet for large excavations.
   d. Fifty (50) feet from any residential (defined as a zoning district) property line or mixed use district for small and medium excavations, and two hundred (200) feet for large excavations.
   e. One thousand (1,000) feet from a school or hospital measured on a straight line along the shortest distance between the perimeter of the soil excavation and the boundary of the property upon which the facility is situated.

f. Two hundred (200) feet from an abandoned dumpsite or landfill.

g. One thousand (1,000) feet from an existing landfill or dumpsite, a wellhead or a public supply production well of one hundred thousand (100,000) gallons per day or greater.

F. **DEVELOPMENT AND OPERATIONS STANDARDS.**

1. **Point and Non-Point Source Discharges.** Point and non-point source discharges of water or liquid waste into waters of the State are prohibited unless approved by all applicable local, state and Federal agencies.

2. **Groundwater.**

   a. Floridan and Surficial Aquifer Withdrawals. Groundwater withdrawals shall not adversely impact, due to lowering of potentiometric levels, the Floridan or surficial aquifer beyond the boundaries of the excavation.

   b. Monitoring. In order to establish baseline conditions and to evaluate potential impacts, the monitoring of groundwater systems, surficial and Floridan, will be evaluated on a case-by-case basis and the need for on-site sampling or observation wells shall be specified by the County Manager. Wells established for potable water supply or as part of the mining operation will be constructed to enable sampling of the aquifer from which the water is drawn.

   c. Considerations. Soil excavations shall be strictly scrutinized and restricted consistent with the considerations discussed below. A detailed site specific hydro geologic study shall be submitted that would show any potential impact of the excavation on groundwater resources.

      i. Areas susceptible to groundwater contamination with a drastic index of greater than 179 or within a quarter of a mile from a Class I and Class II landfill. A study shall be submitted evaluating the site specific sinkhole potential and groundwater contamination assessment of the proposed soil excavation.

      ii. Areas where potential sinkhole development is likely.

      Excavation shall not breach the semi-confining layer beneath the surficial aquifer. A minimum thickness of the semi-confining unit must remain beneath the base of the excavation at all times, as to be determined by a registered professional geotechnical engineer.

3. **Surface Water.**

a. Withdrawals. Water shall not be drawn from surface water bodies unless specifically approved in the permit. Such use shall only be permitted after a thorough analysis of stream flow and surface water conditions, and shall be limited to quantities not detrimental to downstream property owners or the environment, generally.

b. Stream Relocations. It shall be the general intent of this Chapter not to permit the relocation of natural existing stream channels on or off-site. Under special conditions the County Manager may approve a relocation which then must be documented in the permit.

c. Discharges. Increases in the flow of water courses leaving the excavation site, shall not adversely affect downstream property owners or the environment generally.

d. Monitoring. In order to establish baseline conditions and to evaluate potential impacts, the monitoring of surface water systems will be evaluated on a case-by-case basis, and the requirements and duration of on-site monitoring shall be determined by the County Manager and shall be specified in the permit. Monitoring reports shall be submitted to the County Manager, as specified in the permit.

4. **Dewatering.** Dewatering operations shall be planned and controlled so as to provide minimum draw down of the groundwater table outside the actual excavation site. Should the County receive complaints that the dewatering operation has resulted in detrimental off-site impacts the County may require the operator to demonstrate by means of a report from a registered professional geotechnical engineer, that such impacts have not occurred as a result of the dewatering operation. Any dewatering operation which, in the determination of the County Manager, results in detrimental fluctuations of water levels in adjacent water bodies, wetland areas or water supply wells, shall be terminated until such time as a satisfactory plan is developed, approved by the County Manager, and implemented in order to maintain natural water levels in such areas. A dewatering permit must be submitted if required from the appropriate water management district.

5. **Other Resources.**

a.

Archaeological and historical sites, cemeteries and burial grounds shall be preserved in accordance with applicable Federal, state and local laws and regulations.

b. Maximum practicable efforts shall be made to protect specimen trees, habitats of protected species of wildlife and vegetation, wetland areas and other environmentally sensitive areas. In accordance with other provisions of this Article and the Comprehensive Plan, these areas shall be designated on the Soil Excavation Permit (SEP) and left undisturbed.

c. Excavation activity shall be conducted so as to control the generation and off-site migration of dusts and particles. All areas in which such dusts or particles may be generated shall be kept wet, treated with chemical dust detergents, or controlled in another manner to reduce the potential for their off-site migration. Atmospheric discharges from processing and drying equipment shall comply with all applicable state, Federal and local laws. To minimize dust and to prevent the deposit of soil excavation material on paved roads, trucks shall be covered with their tailgates latched. Dirt road segments of the designated haul route shall require regular watering, as necessary, to minimize dust generated by hauling activities.

d. Soils exposed during site alteration shall be stabilized, and runoff and siltation shall be directed to areas approved in the SEP or operating permit in such a manner as to prevent off-site impacts.

e. Activity, with the exception of approved peat and muck mining, shall not be conducted within the 100-year flood plain of waterways, lakes or streams, if such excavation activity would have an adverse effect on the 100-year flood plain. Alterations shall only be permitted consistent with the applicable water management district and in compliance with other provisions of this Code.

f. An operator shall not dump, pile or permit the dumping, piling, or otherwise placing of any earth, overburden, rocks, ore, debris, or other solid waste upon or into any public roadways, or other public property, or water bodies, or upon any adjacent property except as specifically approved in the permit. The operator shall not place these materials in such way that normal erosion or slides, brought about by natural physical causes, will permit such materials to move onto public roadways, or other public property, into water bodies, or upon any adjacent property.

g. All hazardous waste materials intended to be stored or used on-site, including petroleum based products, shall be reported to the Department of Environmental Protection prior to storage. All hazardous wastes generated by activities at the site shall be disposed of in accordance with local, state and Federal law.

h. Increases to ambient noises, resulting from excavation operations, shall not cause a public nuisance as measured at the permittee's property line and in accordance with the criteria found in the applicable Osceola County rules, regulations and ordinances. Nor shall excavation activities generate noise in excess of that allowed by local, state or Federal law.

i. Operations shall be performed in a manner that will prevent vibrations of the soil from reaching a magnitude sufficient to cause damage to persons or property outside the permitted excavation site. Blasting or other use of explosives shall not be performed without proper permits from the state Fire Marshal and shall be fully outlined in the SEP. Should the County receive complaints from adjacent residents or landowners, the County may require measurement by a blast monitoring device and a report of the findings to the County demonstrating that the blast has not and will not cause damage to persons or property outside the operator's property. In addition, the County may require the operator to notify adjacent residents prior to future blasting.

j. The soil excavation shall comply with the Florida Department of Environmental Protection (DEP) reclamation requirements for solid resources other than phosphate, limestone, heavy minerals, and Fuller's Earth. Prior to permit issuance, the applicant must show proof of notification to DEP in accordance with F.S. ch. 378.

G. **OPERATING STANDARDS.**

1. Prior to excavation, the perimeter of the permitted soil excavation shall be adequately staked to delineate the excavation. These stakes shall be maintained throughout the duration of excavation and reclamation. The County Manager may require a legal description of the soil excavation when necessary for determining staking and location of the land excavation.

2. The standard slope for the side of a lake creation, including ditches, shall be four (4) feet measured horizontally to one (1) foot measured vertically (4:1) to a depth of six (6) feet below normal water level, then no steeper than two (2) feet measured

horizontally to one (1) foot measured vertically (2:1) to the bottom of the excavation. Dry soil excavations shall be no steeper than four (4) feet measured horizontally to one (1) foot measured vertically (4:1) to the bottom of the excavation. Any mitigated wetlands shall be sloped and vegetated in accordance with state, federal law and other provisions of this Code.

3. Required side slopes shall be constructed and maintained as excavation progresses. Side slopes shall not be excavated and backfilled.
4. Medium and large soil excavations shall be secured with a fence and gate to prevent unauthorized access to the soil excavation. All points of access shall be secured when activity is not occurring in the soil excavation. The fence shall be posted at five-hundred-foot (500') intervals for "No Trespassing."
5. Ingress/egress aprons are required for all soil excavations from which material is excavated and transported on a public road. Aprons shall be geometrically designed according to the specifications of the FDOT. The ingress/egress apron shall be maintained throughout the duration of the soil excavation activities and shall be of such length to remove excess earth/mud from tire tread (minimum length to right-of-way line).
6. A stop sign shall be posted at the soil excavation site access onto a public road, as well as advance warning signs on the public road advising of "Trucks Entering Highway."
7. On-site, excavated material shall be transported along a course from the soil excavation to the point of ingress/egress access which will have the least adverse impact, if any, on surrounding land uses and/or environmentally sensitive areas. This shall be reviewed and approved on the SEP.

H. **OFFSITE HAULING.**

1. The off-site haul route shall be specifically designated on a map which is to be submitted with the SEP application. Videotaping of the existing road is required to document the existing conditions of the haul route. A bond or fee may be set by the County for the reconstruction of public roads impacted by the excavation operation.
2. Techniques to mitigate the impacts of off-site hauling on existing neighborhoods, fronting onto a framework roadway, may include restrictions on the hours and days of off-site hauling, contribution by the applicant to the cost of road improvements on the haul route, and development of alternative haul routes. The

County may impose reasonable restrictions on the hours and days of operation of any soil excavation, when such reasonable restrictions are necessary to protect the public health, safety and welfare.

3. In evaluating the effect of the truck traffic, the County shall consider the capacity of the road(s) designated as the haul route, the impact of haul route traffic, especially within five hundred (500) feet of the boundaries of a school or hospital's property, the hours of operation of the soil excavation and of the institution, the estimated volume of truck traffic, and the location of access to the school or hospital.
4. The placement of hauled excavated soil shall be in accordance with all existing County codes related to construction and protection of the environment and flood prone areas.

I. **RECLAMATION: GRADING AND VEGETATION.**

1. Shall meet requirements in stormwater section of this Code.
2. All disturbed upland areas within the soil excavation site shall be graded to elevations as approved in the reclamation plan.
3. All remaining upland disturbed areas within the soil excavation site shall be seeded and mulched or sodded.
4. All remaining upland disturbed areas within the soil excavation site shall be replanted with a minimum of two hundred (200) one to three (1—3) gallon size trees per acre or an approved alternative reclamation plan, which may include mitigation.

J. **PERMIT AMENDMENT.** The permit may be amended as required for reasonable cause and as approved by the County. In order to amend the permit, an application shall be made to the County Manager. The County Manager shall determine whether the proposed amendment is substantial or non-substantial.

1. The following general criteria will be used to identify a substantial amendment:
   a. A change in acreage or location to be excavated which is outside the approved area for excavation in the original permit.
   b. A change which would require an amendment of the conditions of approval for the SEP.
   c. A change in phasing of the excavation.
2.

Amendments to the SEP which are determined to be substantial shall be submitted with plans and support data (in the same manner as required for the submittal of the original excavation site plan application). The review process shall also be the same.

3. All non-substantial amendments (including plans and support data shall be reviewed and approved by the County Manager). The review of the non-substantial application for amendment shall be conducted in conformity with those conditions applied to the original SEP.

K. **ANNUAL PROGRESS REPORT, CERTIFICATION, RECLAMATION APPROVAL.**

1. **Annual Progress Report.** The applicant/owner shall file annually an annual progress report with the County Manager, within forty-five (45) days after each anniversary date of the soil excavation permit approval. This report shall include the following information:
   a. Identification of lands excavated during the preceding year and lands expected to be excavated during the current year;
   b. Discussion of the reclamation progress for each area where reclamation has been completed in the last year, or where reclamation is in progress, a discussion of reclamation planned for the current year;
   c. A survey performed by a licensed professional surveyor shall be submitted showing the limits of the excavation in relation to the property boundaries;
   d. A summary of results of the previous year's environmental monitoring program, if required in the SEP; and
   e. The applicant/owner shall also furnish copies of all related inspection reports not previously furnished which are required by State or Federal regulatory agencies.
2. **Certification.** For medium and large excavation permits a Florida registered professional engineer or professional geologist familiar with the operator's excavation activities shall certify in the annual progress report that the project is being developed and operated in strict accordance with the conditions set forth in the approved SEP.
3. **Failure to File.** Failure to file the required annual progress report shall be grounds for suspension of the permit. Upon notification by the County of failure to file the annual progress report, the permittee shall have ninety (90) days to file the

required report or the SEP shall be suspended. Should the permit expire during the suspension period, it shall lapse and be voided. Failure by the County to send notification at any time shall not cause the County to lose this option.

4. **Reclamation Approval.** If necessary, approval of reclaimed areas shall be requested in the annual progress report by identifying the specific reclamation areas for which approval is sought. Reclamation of disturbed lands shall be deemed completed after showing that the reclamation areas have been reclaimed in accordance with the approved SEP.
5. **Financial Security for Reclamation Plan.** The soil excavation site owner shall present the County with financial security that the reclamation plan will be completed at the time of permit approval. Acceptable forms of this financial security shall include, but are not limited to, a letter of credit, surety bond, or cash bond that will be held by the County until the reclamation plan is completed for the soil excavation. The amount of financial security shall be equal to one hundred twenty-five percent (125%) of the amount necessary to complete reclamation of the entire excavation or if phased, the two (2) phases with the greatest number of acres as certified by a landscape architect or engineer registered in the State of Florida. The financial security shall extend a minimum of one (1) year beyond permit expiration. The owner shall post the entire financial security prior to the issuance of a soil excavation permit.

   Prior to permit issuance the soil excavation site owner shall provide the County Manager with an irrevocable license to enter the soil excavation site to complete the necessary reclamation in the event the soil excavation owner fails to do so.

6. **Release of Financial Security.** The permittee shall notify the County Manager in writing to request the release of financial security. Prior to the release, the following steps shall occur:
   a. The County Manager shall complete a final inspection and approve reclamation of the site,
   b. The permittee shall submit a signed, sealed and dated topographic survey to indicate total cubic yards of material excavated or other acceptable calculations of the cubic yards excavated, and
   c. The permittee shall submit the balance of payment in full for the total cubic yards of material excavated.

d. The released financial security shall be returned to the permittee within thirty (30) days of BCC approval.

7. **Waiver.** The County Manager may waive certain provisions and criteria which would impose upon the applicant an unreasonable and unnecessary or exceptional burden. The County Manager shall not recommend any waiver that would adversely affect any adjoining property or the public.

4.12.2 - RIGHT-OF-WAY UTILIZATION

A. **PURPOSE.** This Section is established to regulate the location, installation and adjustment of any facility or operation on County right-of-way or easement and the issuance of permits for such work in the interest of safety and for the protection, utilization and future development of the highways and roads, with due consideration given to public service afforded by adequate and economical utility installations, as authorized by the applicable Florida Statutes. While this regulation governs on matters concerning future location, manner and methods for the installation or adjustment and maintenance of utilities on County right-of-way, it does not alter current regulations pertaining to authority for their installation or determination of financial responsibilities for placement or adjustment thereof.

B. **AUTHORITY; SCOPE.** The regulations in this Article are enacted for the purpose of providing necessary regulations for use of any County right-of-way and shall apply to all private contractors, private citizens, utility companies, municipalities and to any person or group proposed to install, construct, maintain, operate or repair any facility or structure within any of the existing or planned rights-of-way, or public easements, stormwater tracts, dedicated or planned to be dedicated, to the public, or Osceola County, or maintained by Osceola County, in the interest of the public health, safety and welfare of the citizens and residents of Osceola County. Any activity in the right-of-way shall require a permit from the County. This Article shall apply to and be enforced in all areas of County jurisdiction.

C. **SCOPE OF PERMIT APPROVAL.**

1. The permit issued under this Article is a license for a permissive use only and the placing of facilities upon public property pursuant to this permit shall not operate to create or to vest any property right in the holder thereof and the issuance of a

right-of-way utilization permit does not relieve the permit holder of the need for obtaining any other permits that may be required by the appropriate authorities. The permit may be revoked at any time.

2. The rights and privileges set out in this Article are granted only to the extent of the County's right, title and interest in the land to be entered upon and used by the applicant, and the applicant will at all times assume all risks of and defend the County from and against any and all loss, damage, cost or expense arising in any manner on account of the exercise or attempted exercise by the applicant of the aforesaid rights and privileges.
3. The construction and/or maintenance of a utility shall not interfere or encroach upon the property and rights of an existing lawful occupant.
4. Removal and/or relocation of facilities (including but not limited to landscaping, signage and paving). Any facility heretofore or hereafter placed upon, under, over, or along any public road right-of-way that, at the discretion of the County, shall, upon sixty (60) days' written notice to the owner of the facility or its agent, or upon legal notice published in not less than two (2) weekly issues of a newspaper of general circulation in the County, be removed or relocated, and the right-of-way shall be restored to its original condition by, and at the sole expense of, such facility owner (or its agent). The failure of a utility owner or its agent to remove or relocate such facility after the required notice shall absolve the County from any liability for damages that may arise as a result of County's removal of any such utilities. All expenses incurred by the County during this relocation of the subject facilities shall be the sole responsibility of the facility owner.

D. **SUPPORTING REGULATIONS.**

1. When applicable, the provisions of the latest editions of the following shall apply:
   a. Osceola County Land Development Code
   b. Osceola County Road Construction Specifications Manual
   c. Florida Department of Transportation Standard Specifications for Road and Bridge Construction
   d. Regulations for the Transportation of Natural and Other Gas by Pipelines (parts 191 and 192, Title 49 of the Code of Federal Regulations, as amended from time to time.
   e. State of Florida Department of Transportation Utility Accommodation Guide

f. United States Department of Transportation Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD)

g. Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (Green Book), as published by the Florida Department of Transportation.

h. Florida Department of Transportation Roadway and Traffic Design Standards

i. ASCE 38-02: "Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data," as published by the American Society of Civil Engineers.

2. In the event of a conflict between the provisions of the regulations and specifications referred to above and these right-of-way utilization regulations, whichever regulation is more restrictive shall apply.

E. **WORKING HOURS.** Operations permitted by this Article shall normally be conducted from 7:00 a.m. to 5:00 p.m. Monday through Friday, excluding holidays. Any deviation from these hours requires prior approval from the County Manager. A minimum of two (2) working days' notice, in writing, requesting deviation from normal working hours, must be provided. Additional fees will be required as approved by the County. Emergency repairs are excluded from this time restriction of the two (2) working days' notice. Likewise, time restrictions may be imposed for lane closure.

F. **PERMITS.**

1. **Notification to Other Agencies.**

a. Applicant shall apply to Sunshine One who will notify all users within the project limits of the applicant's proposed project. Sunshine One will respond with verification that all users have been notified and provide the applicant a list of all users in the area of the proposed project. Applicant shall provide a copy of the Sunshine One ticket with the permit application.

b. The applicant shall verify the notification to other users by completing the section provided in the application for such verification. It is the full and complete responsibility of the applicant to determine that all other users are notified of the proposed work. Any work performed without such notification shall be at the sole risk of the applicant.

c. No permit for excavation of the right-of-way will be issued until the applicant has certified compliance with F.S. § 553.85 1(2)(a) and (c).

2. **Qualifications of Permittee.**
    a. Subject to the satisfaction of and compliance with requirements contained in this Article, permits may be issued to the following:
        i. Utility corporations or companies (including County and municipal utilities) that will be servicing the installed facility.
        ii. Contractors responsible for the installation of any utility facility or structure subject to these regulations.
        iii. Private citizens, corporations or organizations with a reasonable and legitimate purpose for using the right-of-way, which purpose poses no threat or danger to the public health, safety or welfare.
        iv. In those cases in which the services to be provided are subject to County regulations relating to underground utility pipelines, the applicant must hold a current state general contractors' license, a current state underground utilities contractor's license, a current state plumbing contractor's license, or a certificate of competency issued by the State Fire Marshal for fire protection systems only.
    b. The Osceola County Road and Bridge Department is exempt from these qualification requirements.
3. **Issuance; Compliance.**
    a. The County Manager may approve and/or issue an application for right-of-way utilization. Upon approval by the County Manager, the application form becomes the valid permit.
    b. After payment of the required fee and approval of the application, the County Manager will issue a permit for the proposed work. The work must be performed in accordance with the terms and requirements of this duly issued permit. Additional work, or revisions not authorized by the original terms of the permit, will require a new permit or modification of the existing permit if applicable.
4. **Letter of Credit and Insurance Certificate.**
    a. Any permit to construct improvements within an existing County right-of-way shall not be issued until an irrevocable letter of credit, or other assurance acceptable to the County, is provided. It shall be in the amount of one hundred

twenty-five percent (125%) of the estimated cost of completion of the improvement or work covered by the permit and shall be issued in favor of the County.

b. A certificate of insurance acceptable to the County shall be required unless the County Manager deems the insurance requirement unnecessary.

5. **Availability for Examination.** A copy of the permit issued under this division must be available at all times at the work site while work is being performed. Any work in progress on, or use of, the right-of-way without a valid permit available at the site shall be suspended until such time as a valid permit is produced on the site.

6. **Inspection, Approval of Work.** The County shall have the right to inspect and approve materials and/or phases of work. Final inspection and acceptance of work by the County must be obtained to document the completion of the work. Work will be considered incomplete until that portion of the permit indicating final inspection and approval has been signed and dated by the inspector.

   The permittee shall notify the County at least twenty-four (24) hours prior to beginning work.

   Underground facilities (buried cable, water lines, etc.) will not be covered until approved by the inspector. Cable facilities need not be left exposed when buried by the direct burial process when the contractor has demonstrated his capability of competence of construction standards. The County reserves the right to require exposure of installation to inspect correct depth of cover.

   Work commenced without a permit, or failure of the permittee to notify the County at least twenty-four (24) hours prior to commencement of work will incur a fee as adopted by the Board of County Commissioners. Failure of the permittee to obtain the appropriate inspections or notify the County at least twenty-four (24) hours prior to commencement of work shall not relieve the permittee from re-excavation or other measures necessary for inspection of the work.

   All items found not to be in compliance with this Article will be immediately corrected by the permittee.

7. **Duration, Extensions.** Every permit issued by the County Manager under the provisions of this Section (4.12.2) shall become null and void if the work authorized is not completed within twelve (12) months from the issuance of the permit. If

permit becomes void, before such work can again be commenced or completed, a new permit must first be applied for and obtained. Permit application process must be started anew. Permit fees will be assessed as for an original permit. A singular extension, up to six (6) months, may be granted upon written request of the applicant, at the discretion of the County Manager. Permits for construction of offsite improvements in conjunction with subdivision or site development will remain in effect until completion of the development or phase thereof. All residential driveway permits issued in conjunction with a new single-family or multi-family residence shall not expire as long as a valid build permit for that residence exists.

8. **Responsibility for Compliance.** The applicant assumes full and total responsibility for compliance with this Article, supporting regulations, additional requirements of the Board of County Commissioners, any municipal, county, state or federal laws, ordinances, or other directives which may apply to the proposed work.
9. **Warranty.**
    a. Permittee shall guarantee all work performed under the terms of the permit for a period of one (1) year from the date of completion as certified on the permit by the County Inspector. A maintenance surety shall be provided at fifteen percent (15%) of the construction cost for projects in excess of one hundred thousand dollars ($100,000.00).
    b. Any failure shall be repaired by the permittee, at the direction of the County Manager, within thirty (30) days, unless the urgency of the problem requires a quicker reaction time.
10. **Bonds.** In the event the applicant must bore and jack, and/or open cut, the applicant shall present an executed bond by a company licensed to do business in the State of Florida. This bond shall be in an amount to be determined by the County Manager and for a period of one (1) year. In the event the project is not completed in one (1) year the bond shall be renewed and thereafter renewed on an annual basis until the project is complete. The County Manager shall present a Certificate to the Board of County Commissioners when a project is completed or the permit has expired and the bond may be released.
11. **As-Builts.** The Permittee shall provide a complete "As-Built" survey by a professional land surveyor licensed in the State of Florida of the permitted work including horizontal locations based on State Plane Coordinates and vertical data

based on Bench Mark information provided by the County on all above and below ground improvements. The as-built survey shall show the improvements related to the right-of-way lines. When obtaining location data, a vertical elevation shall be obtained whenever a horizontal measurement is obtained. For pipe line work vertical and horizontal locations shall be require at a minimum of three hundred (300) feet or change in direction vertically or horizontally. The permittee shall provide one (1) copy of a signed and sealed survey and a digital file in AutoCAD format on a CD prior to release of the bond.

G. **TECHNICAL REQUIREMENTS AND REQUIREMENTS FOR SPECIFIC ACTIVITIES.**

1. **Location Standards.**

a. The primary concern in the design and location of utility installations is protection of the right-of-way and the safety of the highway user, and in all cases, full consideration shall be given to sound engineering principles and economic factors.

b. Where possible, all longitudinal underground utility facilities should be placed within seven (7) feet inside of the outer edge of the right-of-way line. Aboveground facilities should be placed at or as close as practical to the right-of-way line. If sidewalk removal is required, the applicant shall be responsible for its replacement.

c. Proposed location of poles, fire hydrants, and water meters, and other objects within the right-of-way, should take into consideration future road widening, sidewalk, storm drainage or other construction. Minimum guidelines for roadside recover area are shown in the State of Florida Department of Transportation Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highway. Deviations require approval by the County Engineer.

d. Water meter boxes shall not be placed within the limits of a proposed or existing sidewalk.

e. Pursuant to the provisions of the applicable Florida Statutes, no person shall place, maintain or display upon any County right-of-way any unauthorized sign, signal, marking or device which purports to be or is an imitation or resembles an official traffic-control device or railroad sign or signal, or which hides from view or interferes with the effectiveness of any official traffic-control device or

any railroad sign or signal. The County Manager is empowered to remove every sign, signal or marking prohibited by this subsection or cause it to be removed without notice.

f. Permittee shall not install fences or gates within County right-of-way. Fences installed in County easements are subject to removal at the owner's expense when it becomes necessary for the County to exercise its rights to that easement. Any unauthorized installation shall be a violation of this section, and after due notice the County Engineer, or his designated representative, is empowered to remove the same or cause it to be removed, and the Board of County Commissioners may institute appropriate legal action.

2. **Wireless and Small Wireless Facilities Standards.**

a. A wireless antenna attached to a permitted and legally maintained vertical structure in the Public Rights-of-Way, such as a light pole or Utility Pole, shall, unless otherwise agreed to by the County in writing: (1) not extend more than ten (10) feet above the highest point of the vertical structure; (2) not have any type of lighted signal, lights, or illuminations unless required by an applicable federal, state, or local rule, regulation or law; (3) comply with any applicable Federal Communications Council Emissions Standards; (4) comply with any applicable local building codes in terms of design, construction and installation; (5) not contain any commercial advertising thereon; and (6) comply with Home owner's Association Restrictions where such restrictions apply.

b. Minimum Objective Design Standards for At-Grade Facilities, Below-Grade Facilities, Wireline Facilities, and Utility Poles.

i. Intent and purpose. At-grade Facilities, Below-grade Facilities, Wireline Facilities, and Utility Poles shall be designed in such a manner to ensure such Facilities and Utility Poles are placed in a safe location that do not interfere with the traveling public, and shall be designed to maximize compatibility with the surrounding neighborhood and to minimize any negative visual impact on the surrounding neighborhood. As used in this Section, the term Facility shall be used to collectively refer to At-grade Facilities, Below-grade Facilities, and Wireline Facilities. The following design standards shall apply, unless waived.

ii.

Stealth design. Utility Poles shall be made of substantially the same material, color, and design as other Utility Poles within the same Public Rights-of-way, however, a Utility Pole made of a steel, concrete, or fiberglass, and of a neutral color, shall not require a waiver regardless of the material and color of other Utility Poles within the same Public Rights-of-way. A repurposed structure shall be of substantially similar design, material, and color of the existing structure being replaced by the repurposed structure. The repurposed structure shall be located in approximately the same location as the existing structure. The repurposed structure shall continue to serve its primary function. If the County has a planned future project to replace Utility Poles in the subject Public Rights-of-way, the Repurposed Structure shall conform to the County's updated design, material, and color.

iii. Concealment. A proposed Facility and Utility Pole shall utilize the following concealment requirements unless waived.

a) No Signage. Registrants shall not place or maintain Signage on any Facility within Public Rights-of-way, unless otherwise required by State or federal laws or regulations.

b) Lighting. A Facility shall not have any type of lighted signal, lights, or illuminations unless required by an applicable State or federal laws or regulations or as permitted by the County.

c) At-grade Facilities shall be located in areas with existing foliage or other aesthetic features to obscure the view of the At-grade Facilities or shall be designed to appear similar to other at-grade facilities in the same Public Rights-of-way. Any additional plantings proposed pursuant to this Subsection shall be approved by the County.

iv. Maximum height restrictions. A Utility Pole intended to support the Collocation of Small Wireless Facilities is limited to the tallest existing Utility Pole as of July 1, 2017, Located in the same County Public Rights-of-way, other than a Utility Pole for which a waiver has previously been granted, measured from grade in place within five hundred (500) feet of the proposed location of the Utility Pole intended to support the Collocation of Small Wireless Facilities. If there is no Utility Pole within five hundred (500) feet, the Utility Pole intended to support the Collocation of Small Wireless

Facilities shall be limited to fifty (50) feet. The Small Wireless Facility, including any attached Antennas, shall not exceed ten (10) feet above the Utility Pole intended to support the Collocation of Small Wireless Facilities.

v. Location context. A proposed Utility Pole shall utilize the following location context requirements:

a) Installation at outermost boundary of Public Rights-of-way. At-grade Facilities and Utility Poles shall be placed at the farthest distance practicable from the edge of pavement unless there is a designated corridor within the Public Rights-of-way.

b) Equidistant requirement. Utility Poles are strongly encouraged to be placed equidistant between existing Utility Poles, if any, within the Public Rights-of-way.

c) Common property line. For Placement within Residential Blocks, Utility Poles are strongly encouraged to be placed at the common property line of the Parcels that Abut the Public Rights-of-way.

d) Prohibition against placement that significantly impairs view from principal structures within Residential Blocks. At-grade Facilities and Utility Poles, shall be Placed such that views from principal structures within Residential Blocks are not significantly impaired. Should the County determine that a proposed location does not meet this requirement, the County may offer an alternative location and/or design standard to ensure compliance, consistent with F.S. § 337.401(7)(d)4.

c. Minimum Objective Design Standards for Small Wireless Facilities.

i. Purpose and intent. Small Wireless Facilities shall be designed in such a manner that the Small Wireless Facilities are Placed in a safe location that do not interfere with the traveling public, and shall be designed to maximize compatibility with the surrounding neighborhood and to minimize any negative visual impact on the surrounding neighborhood. The following objective design standards regulating the location context, color, stealth design, and concealment of the proposed Small Wireless Facility shall apply, unless waived.

ii. Stealth design. All proposed Small Wireless Facilities shall meet one (1) of the following Stealth Design standards, unless waived.

a) Preferred stealth design option 1: No exposed wires or cables; the use of Shrouds; and the use of a slim design wherein the top mounted Antenna shall be limited to the diameter of the supporting Utility Pole at the level of the Antenna attachment plus twelve (12) inches or a twenty (20) inch maximum Antenna diameter whichever is less. Side mounted enclosures, if any, shall not extend more than Twenty-four (24) inches beyond the exterior dimensions of the existing structure, repurposed structure or Utility Pole at the level of Antenna attachment measured from the edge of the pole to the outermost surface of the side mounted enclosures.

b) Preferred stealth design option 2: No exposed wires or cables; the use of Shrouds; and the use of a street light fixture to camouflage the Small Wireless Facility. Any street light fixture shall be maintained in good working order by the Applicant or pole owner unless the County accepts maintenance responsibility in writing. If the County accepts the maintenance responsibility of a street light fixture on an Authority Utility Pole, the ownership of the street light fixture shall transfer to the County.

iii. Concealment. A proposed Small Wireless Facility shall utilize the following concealment requirements unless waived.

a) Applicants shall not place or maintain Signage on Communications Facilities in Public Rights-of-way, unless otherwise required by applicable State or federal laws or regulations, provided however, that existing structures that lawfully supported signage before being repurposed may continue to support signage as otherwise permitted by law.

b) A Small Wireless Facility shall not have any type of lighted signal, lights, or illuminations unless required by applicable State or federal laws or regulations or as permitted by the County.

c) Ground-mounted equipment for Small Wireless Facilities shall be located within a ten-foot (10')-radius of the supporting structure for the Small Wireless Facility and, if possible, in areas with existing foliage or other aesthetic features to obscure the view of the ground-mounted equipment. The ground-mounted equipment shall be designed to

appear similar to other at-grade facilities in the same Public Rights-of-way and may be further concealed with additional plantings. Any additional plantings proposed pursuant to this subsection shall be approved by the County.

iv. Maximum height restrictions. A Small Wireless Facility, including any attached Antennas, shall not exceed ten (10) feet above the Existing Structure, Repurposed Structure or Utility Pole upon which the Small Wireless Facility is to be collocated.

v. Location context. A proposed Small Wireless Facility shall utilize the following location context requirements, unless waived.

a) Prohibition against Placement within a location subject to Homeowners' Association restrictions. Small Wireless Facilities shall not be collocated in a location subject to covenants, restrictions, articles of incorporation, or bylaws of a Homeowners' Association unless specifically authorized by the Homeowners' Association where such HOA restrictions are applicable to the public rights-of-way. This subsection shall not limit the installation, Placement, Maintenance, or replacement of Micro Wireless Facilities on any existing and duly authorized aerial Wireline Facility.

b) Prohibition against Placement in location where facilities are placed underground. Small Wireless Facilities and Utility Poles intended to support the Collocation of a Small Wireless Facility in the Public Rights-of-way shall comply with nondiscriminatory undergrounding requirements of the County that prohibit aboveground structures in the Public Rights-of-way. Any such requirements may be waived by the County. This Section does not apply to the installation, Placement, Maintenance, or replacement of Micro Wireless Facilities on any existing and duly authorized aerial Communications Facilities, provided that once aerial facilities are converted to underground facilities, any such Collocation or Construction shall be only as provided by the County's Land Development Code.

H. **UNAUTHORIZED DRAINAGE CONNECTIONS.** No person, firm or corporation shall create a drainage connection to any County maintained, dedicated or platted right-of-way or easement without a permit.

Existing drainage connections shall not be utilized to discharge anything other than

treated or natural stormwater runoff.

4.12.3 - MINING

A. **PURPOSE.** The purpose of this Section is to protect the public health, safety, and welfare through establishment of reasonable standards for review and regulation of the location and operation of mining activities. The County shall fairly and equitably allow mining operations while at the same time protecting the needs and interests of the County.

B. **DEFINITIONS.** The following words, terms, and phrases shall apply in the application, interpretation, and enforcement of this Section:

1. *Hydraulic fracturing* means the process by which fractures in the earth's subsurface are widened by injection of water, chemicals, or both, under high pressure used in the extraction of oil and gas.
2. *Matrix acidizing* means the injection of any acid into a well to break up impediments without fracturing the well.
3. *Well stimulation* means all stages of a well intervention performed by injecting water, chemicals, or both into a rock formation as a means of oil and gas exploration:
   a. At pressure that is at or exceeds the fracture gradient of the rock formation where the purpose or effect is to fracture the formation to increase production or recovery from an oil or gas well, such as hydraulic fracturing; or
   b. At pressure below the fracture gradient of the rock formation where the purpose or effect is to dissolve the formation to increase production or recovery from an oil or gas well, such as matrix acidizing.

   The term does not include techniques used for routine well cleanout work or maintenance that do not affect the integrity of the well or formation.
4. *Well stimulation waste product* means water, hydraulic fracturing fluid, acid, natural gas, steam, air, carbon dioxide, nitrogen, and other chemical substances (including all solutions and mixtures of the same in any combination and concentration) that have been used for well stimulation.

C. **WELL STIMULATION.**

1. **Oil and gas exploration that uses Well Stimulation prohibited.**

a. No person or entity may engage in any oil and gas exploration or production that uses well stimulation, including but not limited to hydraulic fracturing and matrix acidizing, within the boundaries of Osceola County.

b. No person or entity may engage in oil or gas exploration or production using well stimulation techniques, including but not limited to hydraulic fracturing and matrix acidizing, that originates outside the boundaries of Osceola County but in any way enters onto, into, or under the ground within the boundaries or Osceola County.

2. **Storage and/or disposal of Well Stimulation Waste Products prohibited.**

a. No person or entity may store and/or dispose of Well Stimulation Waste Products within the boundaries of Osceola County.

4.12.4 - DEBRIS DISPOSAL

For new development where burning on-site is desired and the proposed burning is to be accomplished a minimum of one thousand (1,000) feet from any existing occupied buildings, burning shall be permitted subject to compliance with an approved permit from the Division of Forestry. Regardless, no burning shall be permitted unless in compliance with an approved permit from the Division of Forestry.

ARTICLE IV. - NOISE

Sec. 9-106. - Definitions.

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Terminology and *standards.* All terminology used in this article, not defined below, shall be in conformance with applicable publications of the American National Standards Institute (ANSI) or its successor body.

A-weighted scale means the A-weighting filter network in accordance with the requirements of the American National Standards Institute (ANSI) which reduces the measured sound pressure levels as compared to a linear scale or measurement for the lower frequencies, which under defined conditions, approximates the frequency responses of the human ear.

Ambient noise level means the sound pressure level of the all-encompassing noise associated with a given environment, being usually a composite of sounds from many sources.

C-weighted scale means the C-weighting filter network in accordance with the requirements of the American National Standards Institute (ANSI), which reduces the measured sound pressure levels as compared to a linear scale or measurement, for the lower frequencies.

Construction means any site preparation, assembly, erection, substantial repair, alteration or similar action, for or on public or private thoroughfares, structures, utilities or similar property.

Decibel (dB) means a unit for describing the amplitude of sound, equal to twenty (20) times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is twenty (20) micronewtons per square meter.

Demolition means any dismantling, intentional destruction or removal of structures, utilities, public or private thoroughfare surfaces or similar property.

Emergency means any occurrence or set of circumstances involving actual or imminent physical trauma or property damage which demands immediate action.

Emergency work means any work performed for the purpose of preventing or alleviating the physical trauma or property damage threatened or caused by an emergency.

Land use means a category of real property usage classification contained in the county comprehensive plan.

Leq means a calculation of the equivalent continuous sound level generated by a particular varying noise source over a specified period of time as sampled by an integrating sound level meter.

Linear scale means sound pressure level measurements which are not adjusted for some purpose.

Multifamily dwelling means a building or portion thereof designated or used exclusively for residential occupancy by two (2) or more families.

Noise means any sound which annoys or disturbs humans or which causes or tends to cause an adverse psychological or physiological effect on humans.

Noise disturbance. Means any sound which is or may be potentially harmful or injurious to human health or welfare, animal life or property, or unnecessarily interferes with the enjoyment of life or property, including outdoor recreation, of a reasonable person with normal sensitivities.

Public right-of-way means any street, avenue, boulevard, highway, sidewalk, alley or similar place normally accessible to the public which is owned or controlled by the county.

Public space means any real property or structure thereon, normally accessible to the public.

Real property line means an imaginary line along the surface, and its vertical plane extension, which separates the real property owned, rented or leased by one (1) person from that owned, rented or leased by another person, excluding intrabuilding real property divisions.

RMS sound pressure means the square root of the time-averaged square of the sound pressure.

Sound means energy which is transmitted by pressure waves in air or other materials and is the objective cause of the sensation of hearing. Commonly called noise, if unwanted.

Sound level means the level of sound measured with a sound level meter and one (1) of its weighting networks. When C-weighting is used, the sound level is given in dB(C). When A-weighting is used, the sound level is given in db(A).

Sound level meter means an instrument which includes a microphone, amplifier, RMS detector, integrator or time average, output meter, and weighting network used to measure sound pressure levels. The output meter instrument is of Type 2 or better, as specified in the American National Standards Institute Publication sl.4-1971, or its successor publications.

Sound level meter weighting network means an electronic filter in a sound level meter which provides different response characteristics to sound pressure levels as a function of the frequency of the sound being measured or considered.

Sound pressure means the dynamic variation in atmospheric pressure at a point in space minus the static pressure at that point.

Sound pressure level means the fundamental measure of sound pressure, defined as $L_p = 20 \log P/Po$ dB where P is the RMS value of sound pressure in Pascals, and Po is twenty (20) micronewtons for the measurement in air.

Vessel means a boat as referenced in Article VII, Constitution of the State of Florida, Section 1 (b), and includes every description of watercraft, barge, and air boat, other than a seaplane on the water, used or capable of being used as a means of transportation on water. The term vessel additionally includes, but is not limited to, a commercial vessel, a homemade vessel, a live-aboard vessel, a motorboat, a noncommercial vessel, and a personal watercraft, all as defined in F.S. 327.02.

(Ord. No. 86-5, § 3; Ord. No. 94-14, § 1, 5-10-94; Ord. No. 06-06, § 1, 4-17-06)

Cross reference— Definitions and rules of construction generally, § 1-2.

Sec. 9-107. - Intent, scope and short title.

(a) The board of county commissioners intends to prevent, prohibit and provide for the abatement of excessive and unnecessary noise which may injure the health or welfare of its citizens or degrade the quality of life.

(b) This article shall pertain to all sound originating within the unincorporated areas of the county.

(c) This article shall be known as "The Osceola County Noise Control Ordinance."

(Ord. No. 86-5, § 2; Ord. No. 94-14, § 2, 5-10-94)

Sec. 9-108. - Violations.

A violation of this article is an offense and shall be punishable in accordance with law, including, but not limited to, proceedings before the code enforcement board. This article may be enforced by code inspectors and code enforcement officers acting pursuant to chapter 7 of this Code, and by law enforcement officers pursuant of F.S. § 943.10(1), having jurisdiction in unincorporated Osceola County.

(Ord. No. 86-6, § 8; Ord. No. 94-14, § 3, 5-10-94)

Sec. 9-109. - Noise variances.

(a) *Special variances.* Variances may be granted from the provisions of this article subject to the following:

(1) The board of adjustment is authorized to grant variances for exception from any provision of this article subject to limitations as to area, noise levels, time limits, and to impose other terms and conditions as the board of adjustment determines are appropriate to protect the public health, safety and welfare from the noise emanating therefrom. Conditions may include, but shall not be limited to, maximum noise (decibel) levels for a.m. and/or p.m. hours, monitoring and/or enforcement requirements. This section shall in no way affect the duty to obtain any permit or license required by law for such activities.

(2) Any person seeking a variance pursuant to this section shall file an application with the board of adjustment. The application shall contain information which demonstrates that bringing the source of sound or activity for which the variance is sought into compliance with this article would constitute an unreasonable hardship on the applicant, on the community or on other persons. Any individual who claims to be adversely affected by allowance of the variance may file a statement with the board of adjustment containing any information to support their claim.

(3) In determining whether to grant or deny the application, the board of adjustment shall balance the hardship on the applicant, the community and other persons of not granting the variance against the adverse impact on the health, safety and welfare of persons affected, the adverse impact on property affected and any other adverse impacts of granting the variance. Applicants for variances and persons contesting variances may be required to submit any information the board of adjustment may reasonably require. In granting or denying an application, the board of adjustment shall keep on public file a copy of the decision and the reasons for denying or granting the variance, which may consist of the minutes.

(4) Variance shall be granted by notice to the applicant containing all necessary conditions, including, but not necessarily limited to, a time limit on the permitted activity. The variance shall not become effective until all conditions are agreed to by the applicant. Noncompliance with any condition of the variance shall terminate the variance and subject the persons holding it to those provisions of this article for which the variance was granted.

(5) If granted, the term of the variance shall be concurrent with the term of the companion conditional use, or other approval, which necessitated the variance request. However, the board of adjustment may require a shorter term for the variance based upon a review and consideration of the following criteria:

a. Character of the area;

b. Compatibility with the current zoning and land uses of the surrounding area;

c. Compatibility with the future land use designations relative to the site and surrounding area;

d. Size of site and extent to which applicant has located the facilities within the site to minimize off-site noise impacts;

e. The amount and type of buffering and/or other methods of noise reduction;

f. Projected life of proposed use/facilities; and

g. The extent of the variance being sought.

(b) *Appeals:* Decisions of the board of adjustments may be appealed by an affected party to the board of county commissioners for hearing upon the filing with the county of a notice of appeal within ten (10) days from the day a decision is rendered by the board of adjustments. The appeal hearing before the board of county commissioners shall be quasi-judicial and conducted de novo. The decision by the board of county commissioners shall be final.

(Ord. No. 86-6, § 7; Ord. No. 94-14, § 4, 5-10-94; Ord. No. 00-12, § 1, 5-22-00; Ord. No. 13-34, § 8, 9-19-13; Ord. No. 2018-12, § 1, 2-19-18)

Sec. 9-110. - Prohibited acts.

(a) *Prohibited sound levels.* Except as otherwise provided herein, no person shall create, or cause to be created, any source of sound so as to create a sound level beyond the real property line of the real property upon which the sound source is located which exceeds the following sound level limits:

Time of Day	Decibels (A-scale)
7:00 a.m. through sunset	55
One minute after sunset through 6:59 a.m.	45

(b) *Music, musical activities, singing, etc.* Except as otherwise provided herein, no person shall use or operate any musical instrument, device for the production or reproduction of music, phonograph, loudspeaker, sound amplifying device, or other machine or device, stationary or movable, that produces the sound of music, singing, or lyrical expressions, so as to create a sound level beyond the real property line of the real property upon which the sound source is located, which exceeds the following sound level limits:

Time of Day	Decibels (C-scale)
7:00 a.m. through sunset	45
One minute after sunset through 6:59 a.m.	40

(c) *Mechanical equipment, air conditioning, and other equipment.* Except as otherwise provided herein, no person shall operate or cause to be operated any air conditioning, mechanical, ventilating, refrigerating equipment, pump or machinery and equipment of a similar nature, so as to create a sound level beyond the real property line of the real property upon which the sound source is located, which exceeds the following sound level limits:

Time of Day	Decibels (C-scale)
7:00 a.m. through sunset	50
One minute after sunset through 6:59 a.m.	45

(d) *Unmuffled exhaust.* No person shall discharge or cause to be discharged the exhaust of any steam engine, stationary internal combustion engine, or motor vehicle, except through a muffler or other device approved by the mechanism's manufacturer, which will effective prevent loud and explosive sound therefrom.

(e) *Multifamily dwellings.* No person shall operate or permit the operation within a multifamily dwelling any source of sound in such a manner as to exceed fifty-five (55) dBC from 7:00 a.m. to 10:00 p.m. or forty-five (45) dBC from 10:01 p.m. to 6:59 a.m.

when measured within the center of a room of an adjacent intrabuilding dwelling receiving the sounds. The doors and windows of the room shall be closed when the sound level measurement is taken.

(f) *Pagers, public address systems, and outdoor telephones.* No person shall operate or cause to be operated any outdoor loudspeaker, public address, paging, or telephone signaling device which exceeds the ambient sound pressure of the lot upon which the sound source is located. This separate provision is made from the amplified human voice in a nonmusical context because the measurement provisions set out in section 9-110(b), above, are not acoutiscally appropriate for such measurement.

(g) *General prohibition.* No person shall make, continue, or cause to be made or continued, any noise disturbance, as defined in section 9-106, within the unincorporated limits of the county.

(h) *Exemptions.* The following uses and activities shall be exempt from the provisions of this section:

(1) Cries for emergency assistance and warning calls.

(2) Radios, sirens, horns, and bells and other sounds created by law enforcement, fire, and other emergency response vehicles.

(3) Activities on or in county-owned and school athletic facilities, and on or in publicly owned property and facilities, when such activities have been authorized by the owners of such properties or facilities or their agents, except where such publicly owned properties are under private operation pursuant to a lease or concession agreement.

(4) Fire alarms and burglar alarms, provided that any testing of such alarms shall occur only between 7:00 a.m. and sunset, that only the minimum applicable cycle test time shall be utilized, and further provided that any test time shall not exceed sixty (60) seconds.

(5) Locomotives and other railroad equipment, and aircraft.

(6) Routine maintenance performed by public service utilities or their contractors.

(7) Farm equipment, provided that it shall not discharge into the open air any exhaust except through a muffler or other device which shall effectively prevent loud and explosive sound therefrom.

(8) Any noise resulting from activities of a temporary duration permitted pursuant to section 9-115 herein.

(9) Any noise emanating from a sound source exempted by a variance issued by the board of adjustment.

(10) Performance of emergency work by public employees, or by contractors performing emergency work for a public entity.

(11) Operation of vessels on the waters within the unincorporated area of the county, which operation is separately regulated pursuant to section 9-116.

(12) Lawful construction activity conducted between the hours of 7:00 a.m. and sunset.

(13) Lawn mowing, and operation of gasoline and electric-powered lawn, garden, and household maintenance tools and machinery between the hours of 7:00 a.m. and sunset.

(14) Refuse collection vehicles when operated between the hours of 7:00 a.m. and sunset.

(15) Refuse collection vehicles when operated between the hours of 6:00 a.m. and sunset.

(16) The operation of golf course maintenance equipment on a properly zoned and licensed golf course between the hours of 5:30 a.m. and sunset.

(Ord. No. 86-5, § 4; Ord. No. 94-14, § 5, 5-10-94; Ord. No. 01-02, § 1, 1-8-01; Ord. No. 13-34, § 8, 9-19-13; Ord. No. 2015-16, § 1, 4-6-15)

Sec. 9-111. - Reserved.

Editor's note— Ord. No. 94-14, § 6, adopted May 10, 1994, repealed former § 9-111, which pertained to sound levels by receiving land use.

Sec. 9-112. - Motor vehicle maximum sound levels.

(a) *Motor vehicles operating on public rights-of-way.* Motor vehicles on a public right-of-way are regulated as set forth in F.S. § 316.293 and F.S. § 403.415, the provisions of which are hereby enacted for the purpose of vesting jurisdiction of violations in the county court.

(b) *Recreational motorized vehicles operating off public rights-of-way.* No person shall operate or cause to be operated any recreational motorized vehicle off a public right-of-way in such a manner that the sound levels emitted therefrom violate the provisions of section 9-110. This section shall apply to all recreational motorized vehicles whether

or not duly licensed and registered, including, but not limited to, commercial or noncommercial racing vehicles, motorcycles, go-carts, amphibious craft, campers and dune buggies, but not including vessels.

(Ord. No. 86-6, § 6; Ord. No. 94-14, § 7, 5-10-94)

Sec. 9-113. - Measurement procedures.

(a) Sound level measurements shall be conducted by use of a sound level meter as described in the sound level meter manufacturer's instructions.

(b) The sound level meter shall conform to the specifications for ANSI-S1.4 (1983) Type 2 or better.

(c) All sound pressure level measurements shall be taken on, or as near as possible to, the real property line of the real property on which the measured sound is generated.

(d) All sound pressure level measurements shall be conducted so as to obtain an Leq of the sound for the particular activity taking place during the time of measurement. The person operating the sound level meter shall take the measurements over a time base appropriate to the noise source and surrounding conditions, pursuant to the noise control ordinance policies and procedures manual adopted by resolution by the board of county commissioners. the sampling period shall be no less than one (1) minute.

(e) Vessels operated on waters within the unincorporated area of the county shall be exempt from the provisions of this section, and measurement of sound therefrom shall be regulated pursuant to section 9-116.

(Ord. No. 94-14, § 8, 5-10-94)

Sec. 9-114. - Violators; presumptions.

(a) For purposes of this article, any person(s) having responsibility for management of a business premises, however temporarily, who is present on such premises, shall be presumed to have control of, and to be causing or maintaining, all sound emanating from the business establishment. This presumption may be rebutting upon evidence establishing that such person(s) has undertaken all reasonable steps to abate any unlawful sound.

(b) For purposes of this article, any performer producing amplified sound upon any business premises shall be presumed to have control of, and to be causing or maintaining, all amplified sound produced by him and by all other persons producing

amplified sound in concert with such person. This presumption may be rebutted by evidence establishing that such person(s) has undertaken all reasonable steps to abate any unlawful sound.

(Ord. No. 94-14, § 9, 5-10-94)

Sec. 9-115. - Temporary permits.

(a) *Permits.* The county manager or a designee may issue a temporary permit effective for a period of time not exceeding seven (7) days to allow noise prohibited by section 9-110 when produced by a temporary use or activity which does not significantly endanger the health, safety or welfare of the community. Such relief may be granted in situations where additional time is required for the applicant to modify his or her activity to comply with the provisions of section 9-110, or the activity or sound source is of a highly temporary nature, and the activity cannot be performed in a manner which will comply with this article, or if no reasonable alternative is available to the applicant. The county manager or a designee may prescribe any conditions deemed necessary to minimize any adverse affect upon the community. A permit granted hereunder shall contain all conditions upon which the permit has been granted, and shall specify a reasonable time period not to exceed seven (7) days, during which the permit shall be in effect. No more than three (3) temporary permits for the conduct of special events extending past 11:00 p.m. and which violate the prohibitions in section 9-110 shall be issued for a particular location within any twelve-month period, except that additional temporary permits may be issued for special events which the county manager or a designee finds to be of community-wide interest and public benefit.

(b) *Appeals.* Any applicant for a temporary permit pursuant to this section may appeal a decision of the county manager or a designee to the board of adjustment within fifteen (15) days of the decision which is adverse to the applicant. Review by the board of adjustment shall be de novo.

(Ord. No. 94-14, § 10, 5-10-94)

Sec. 9-116. - Vessels operated on waters in the unincorporated area of the county.

(a) *Noise pollution and exhaust regulation.*

(1)

No person shall operate or give permission for the operation of any vessel on the waters within the unincorporated area of the county in such a manner as to exceed the following sound levels at a distance of fifty (50) feet from the vessel. For all vessels, a maximum sound level of ninety (90) dB A.

(2) Any person who refuses to submit to a sound level test when requested to do so by a law enforcement officer is guilty of a misdemeanor of the second degree, punishable as provided in F.S. § 775.082, or as provided in F.S. § 775.083.

(3) The exhaust of every internal combustion engine used on any vessel operated on the waters of unincorporated Osceola County shall be effectively muffled by equipment so constructed and used as to muffle the noise of the exhaust in a reasonable manner. The use of cutouts is prohibited, except for vessels competing in a regatta or official boat race, and for such vessels while on trial runs.

(4) The following words and phrases, when used in this section, shall have the meanings respectively assigned to them in this subsection:

a. *dB A* means the composite abbreviation for the A-weighted sound level and the unit of sound level, the decibel.

b. *Sound level* means the A-weighted sound pressure level measured with fast response using an instrument complying with the specification for sound level meters of the American National Standards Institute, Inc., or its successor bodies, except that only a weighting and fast dynamic response need be provided.

(b) *Enforcement.* The provisions of this section may be additionally enforced as a noncriminal infraction by the division of law enforcement of the state department of environmental protection and its officers, the state game and fresh water fish commission and its officers, the sheriff and deputy sheriffs, and any other authorized law enforcement officer, pursuant to the provisions of F.S. §§ 327.65 and 327.73.

(Ord. No. 94-14, § 10, 5-10-94)

Secs. 9-117—9-130. - Reserved.

Chapter 42 - NOISE

Footnotes:
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***Editor's note—** An ordinance adopted Aug. 10, 2009, § 1, Doc. #0908101101, amended ch. 42, in effect deleting ch. 42 and enacting a new ch. 42 to read as set out herein. Former ch. 42 pertained to similar subject matter and derived from Code 1948, § 62.03; and ordinance adopted July 12, 1982, Doc. #17094; and ordinance adopted Mar. 3, 1985, Doc. #19254; an ordinance adopted Jan. 24, 1994, Doc. #27191; an ordinance adopted Aug. 28, 1995, Doc. #28747; an ordinance adopted Nov. 2, 1998, Doc. #31647; an ordinance adopted Jan 12, 2004, § 4, Doc. #040112905; and an ordinance adopted Mar. 22, 2004, § 1, Doc. #040322902.*
***Cross reference—** Requirement that motorboats be equipped with mufflers, § 35.16.*

Sec. 42.01. - Purpose.

The overall purpose of this Chapter is to protect the public health, safety, and welfare by establishing regulations for noise. This Chapter shall apply to the volume level and control of all sound originating within the jurisdictional limits of the City. Nothing within this section shall be construed to limit the regulation of noise to those sources specified herein. It is not the intent of this Chapter to interfere unduly with the freedom of speech or religion.

(Ord. of 8-10-2009, § 1, Doc. #0908101101)

Sec. 42.02. - General Requirements.

All uses in all zoning districts shall conform to the requirements contained in this Chapter, including Chart 1.

(Ord. of 8-10-2009, § 1, Doc. #0908101101)

Sec. 42.03. - Noises to Which the Standards Apply.

(1) The requirements of Chart 1 shall apply to all noises (except those specifically exempted in Section 42.06), including but not limited to, continuous and intermittent noise, tones, impact noise, and noise emitted by speaker boxes, sound amplification devices, pick-up and delivery trucks and any other commercial or industrial activities.

(2) The noise levels listed in Chart 1 for the Downtown Entertainment Area as defined herein, shall be those levels which may not be exceeded for a cumulative period of no less than one (1) minute in any fifteen (15) minute period. The noise levels listed in Chart

1 for all other types of property may not be exceeded for longer than eight and three-tenths percent (8.3%) of any measurement period, which measurement period shall not be less than thirty (30) minutes.

(3) Where the ambient noise level exceeds the allowable noise levels given in Chart 1, then the ambient level becomes the allowable exterior noise level.

(4) *Definitions.* The following words, terms and phrases, when used in this Chapter, shall have the meanings ascribed to them in this section, unless the context clearly indicates a different meaning:

(a) *Commercial* means property use that is for the trafficking of goods or furnishing of services for sale or profit, including, but not limited to, banking and other financial institutions, dining establishments, retail or wholesale establishments, recreation or entertainment establishments, office buildings, transportation facilities, and warehouses. This category excludes property which is defined as Multi-Use or is located in the Downtown Entertainment Area as described in section 42.07(6) herein.

(b) *Convenient hearing* means the listening comfort of those persons assembled.

(c) *Downtown Entertainment Area* means all property and uses contained within the area described in section 42.07(6) herein.

(d) *Industrial* means property use that is for the fabrication, manufacturing, shipping, or production of durable or nondurable goods. This category excludes property which is located in the Downtown Entertainment Area as described in section 42.07(6) herein.

(e) *Multi-Use* means property that includes a building(s) or structure(s) which contains both commercial (usually on the ground floor) and residential use, where such residential use is located above, behind, below or adjacent to the commercial use. This category shall also include any area where commercial use abuts residential use or is located immediately or directly across a public right-of-way from residential use. Multi-Use excludes property which is located in the Downtown Entertainment Area as described in section 42.07(6) herein. Property used for the public benefit such as outdoor concert events, fairs, festivals, athletic fields, and public assemblies is also included in the definition of "Multi-Use."

(f) *Neighborhood inhabitants* means person or persons who dwell or reside in a place which is immediately adjacent to or within 100 feet of the property generating the noise.

(g) *Plainly audible* means any sound that can be detected by a person using his or her unaided hearing faculties who has a direct line of sight and hearing to the source of the noise. The person need not determine particular words or phrases, or the name of any song or artist: the detecting of a rhythmic bass reverberating sound is sufficient.

(h) *Public right-of-way* means any street, avenue, boulevard, road, highway, sidewalk, alley or easement that is owned, leased, or controlled by a governmental entity.

(i) *Real property line* means either (i) the imaginary line including its vertical extension that separates one parcel of real property from another; (ii) the vertical and horizontal boundaries of a dwelling unit that is part of a multi-dwelling unit such as a condominium, townhouse, or apartment building; or (iii) on a multi-use property, the point of interface between the two portions of the property on which different categories of activity are being performed.

(j) *Residential* means property use that is for residences, including, but not limited to, single-family residences, multi-family residences, condominiums, apartments, hotels, motels, and assisted living facilities. This category excludes property which is defined as Multi-Use and property located in the Downtown Entertainment Area as described in section 42.07(6) herein.

(k) *Sound amplification device* includes, but is not limited to, radios, stereos, CD players, DVD players, microphones, drums, turn tables, audio or visual equipment, electronic devices, musical instrument, sound equipment, television sets, interior or exterior speakers, loudspeakers, bullhorn, or any similar device.

(l) *Weekday* means Sunday beginning at 2:00 a.m. through Thursdays ending at 11:59 p.m.

(m) *Weekend* means Friday beginning at 12:00 a.m. through Sunday ending at 1:59 a.m.

CHART 1. MAXIMUM NOISE LEVELS IN A AND C-WEIGHTED DECIBELS

This chart establishes the maximum permissible noise level, measured in A-weighted and C-weighted decibels, which may be generated in the defined locations at the described time periods. As used below, dBA and dBC shall be the symbol designations of a noise level, using the A-weighting and C-weighting network of sound level meters. For purposes of this Chapter, noise shall be measured using the slow exponential time weighting characteristic of the sound level meter.

Type of Property Generating Noise	Class A Standard 7 AM—10 PM	Class A Standard 10 PM—7 AM	Class B Standard
Residential	60dBA/65dBC	55dBA/60dBC	65dBA/70dBC
Multi-Use	65dBA/70dBC	55dBA/60dBC	65dBA/70dBC
Commercial	70dBA/75dBC	65dBA/70dBC	75dBA/80dBC
Industrial	75dBA/80dBC	75dBA/70dBC	85dBA/90dBC

Class B Standards apply to noises originating from heavy manufacturing uses, as defined in the City's Land Development Code. Class A Standards apply to all other uses.

Downtown Entertainment Area	7 AM—11:59 PM 75dBA/80dBC	12 AM—7 AM 70dBA/75dBC	Weekdays
	7 AM-1:59 AM 75dBA/80dBC	2 AM-7 AM 70dBA/75dBC	Weekends

The categories listed in the above Tables are not to be construed as defined by the City's Land Development Code, but shall have the meanings ascribed to them in this Chapter.

(Ord. of 8-10-2009, § 1, Doc. #0908101101; Ord. No. 2013-14, § 1, 9-16-2013, Doc. #1309161202; Ord. No. 2017-38, § 1, 10-23-2017, Doc. #1710231203)

Sec. 42.04. - Prohibited Acts.

(1)

No person shall produce, cause to be produced, or allow to be produced, by any means, any noise within any private property which, when measured 50 feet from the source of the noise or from the real property line of the property generating said noise, exceeds the applicable sound level limits set forth in Chart 1 and as measured as set forth in section 42.03(2).

(2) No person shall produce, cause to be produced, or allow to be produced, by any means, any noise within any public property which, when measured 50 feet from the source of the noise or from the real property line of the property generating said noise, exceeds the applicable sound level limits set forth in Chart 1 and as measured as set forth in section 42.03(2).

(Ord. of 8-10-2009, § 1, Doc. #0908101101; Ord. No. 2017-38, § 2, 10-23-2017, Doc. #1710231203)

Sec. 42.05. - Additional Prohibited Acts.

(1) *On Residential Property:*

a. It shall be unlawful for any person to make, maintain, create, or allow to be created any unreasonably disturbing noise that is of such character, intensity or duration as to be detrimental to the life, health, comfort or repose of any individual of ordinary sensibilities residing in or occupying the area.

b. It shall be unlawful to play any radio, phonograph, television, electronic device, or any musical instrument or operate a sound-amplification device in such a manner as to unreasonably disturb the peace, quiet, comfort, and repose of neighboring inhabitants of ordinary sensibilities, or at any time louder than is necessary for convenient hearing for the person or persons who are in the room, vehicle, or chamber in which such machine, instrument, or device is operated.

c. The operation of any such machine, instrument, speaker, or device between the hours of 10:00 p.m. and 7:00 a.m. in such a manner as to be plainly audible at a distance of 15 feet from the property line of the building or structure, or the boundary of the vehicle in which the noise is located shall be prima facie evidence of a violation of this section.

(2) *On Multi-Use Property:*

a. It shall be unlawful for any person to make, maintain, create, or allow to be created any unreasonably disturbing noise that is of such character, intensity or duration as to be detrimental to the life, health, comfort or repose any individual of ordinary sensibilities residing in or occupying the area.

b. It shall be unlawful to play any radio, phonograph, television, electronic device, or any musical instrument or operate a sound-amplification device in such a manner as to unreasonably disturb the peace, quiet, comfort, and repose of neighboring inhabitants of ordinary sensibilities, or at any time louder than is necessary for convenient hearing for the person or persons who are in the room, vehicle, or chamber in which such machine, instrument, or device is operated.

c. Any such machine, instrument, speaker, or device being used inside of a building, structure, room, chamber, or other similarly defined area shall not in any way face or direct the sound toward any open entrance or exit, or any window or other similar opening in the building, structure, room, chamber, or other similarly defined area.

d. The operation of any such machine, instrument, speaker, or device between the hours of 10:00 p.m. and 7:00 a.m. in a such manner as to be plainly audible at a distance of 50 feet from the property line of the building or structure, or the boundary of the vehicle in which it is located shall be prima facie evidence of a violation of this section.

(3) *In the Downtown Entertainment Area:*

a. It shall be unlawful to play any radio, phonograph, television, electronic device, or any musical instrument or operate a sound-amplification device in such a manner as to unreasonably disturb the peace, quiet, comfort, and repose of neighboring inhabitants of ordinary sensibilities, or at any time louder than is necessary for convenient hearing for the person or persons who are in the room, vehicle, or chamber in which such machine, instrument, or device is operated.

b. Any such machine, instrument, speaker, or device being used inside of a building, structure, room, chamber, or other similarly defined area shall not in any way face or direct the sound toward any open entrance or exit, or any window or other similar opening in the building, structure, room, chamber, or other similarly defined area.

c. The operation of any such machine, instrument, speaker, or device between the hours of 12:00 a.m. and 7:00 a.m. on weekdays and 2:00 a.m. and 7:00 a.m. on weekends in such a manner as to exceed the applicable sound level limit set forth in Chart 1 and as measured in section 42.03(2) and 42.04 shall be prima facie evidence of a violation of this section.

(Ord. of 8-10-2009, § 1, Doc. #0908101101; Ord. No. 2013-14, § 1, 9-16-2013; Ord. No. 2017-38, § 3,

10-23-2017, Doc. #1710231203)

Sec. 42.06. - Exempt Noises.

The following types of noise are hereby made exempt from the provisions of this Chapter:

(1) Noises from temporary construction and maintenance activities between 7 AM and 9 PM except Sundays and federal holidays.

(2) Noises from safety signals, emergency equipment and vehicles, warning devices and emergency pressure release valves and law enforcement activities, including training.

(3) Noises from motor vehicles such as automobiles, trucks, airplanes, motorcycles, and railroads which are regulated by state and federal law.

(4) Ordinary domestic noises provided such noises comply with the requirements of Chart 1.

(5) Noises such as those from show and ride attractions, fireworks, show pyrotechnics, aerial displays, sound effects, theatrical sound systems, music and human voices that are created within that part of the MA Overlay Zoning District that is not within the Downtown Entertainment Area.

(Ord. of 8-10-2009, § 1, Doc. #0908101101; Ord. No. 2017-38, § 4, 10-23-2017, Doc. #1710231203)

Sec. 42.07. - Use of Mechanical Loud Speakers or Amplifiers Out of Doors.

(1) Unless exempt pursuant to subsection 42.07(6), it is hereby made unlawful to use any mechanical loud speaker or other sound amplification device on a truck or other moving vehicle or out of doors on public or private property except under a permit issued by the Chief of Police or the City's Permitting Services Division. For purposes of this section, "out of doors" shall mean the loud speaker or other sound amplification device is located outside and not wholly enclosed within a building or structure. Sound amplification devices located wholly within automobiles and handheld mobile electronic devices are hereby made exempt from this subsection, except that it is hereby made unlawful for any person to make, maintain, create, or allow to be created any unreasonably disturbing noise from any car sound amplification device (whether wholly or partially contained within the automobile or not) or handheld mobile electronic

device that is of such character, intensity, or duration as to be detrimental to the life, health, comfort, or repose of any individual of ordinary sensibilities residing in or occupying the area.

(2) Except as provided in subsections (6), (7), and (8) below, no person shall use a loud speaker or other sound amplification device on a truck or other moving vehicle or out of doors on a public or private property between the hours of 10:00 p.m. and 7:00 a.m.

(3) No person shall use a loud speaker or other sound amplification device out of doors within 1,000 feet of any school, physical place of worship at which a religious organization regularly conducts religious services, hospital, court of law, or public transportation facility as defined in § 496.425(1)(b), Florida Statutes, during normal business hours of operation of that entity without the permission from that property owner.

(4) Each permit application shall include the name, address, and telephone number of the permit applicant. The applicant shall submit a plan showing the proposed location and orientation of the loud speaker(s) or sound amplification device(s) to be used, the street address and specific location at that address for the proposed use, the hours of operation of the loud speaker(s) or sound amplification device(s), and a description of the loud speaker(s) or sound amplification device(s) including its decibel level. The applicant shall certify that such speaker(s) and device(s) will be monitored to ensure that it is operated within the decibel levels prescribed in Chart 1 set forth in section 42.03 herein.

If the loud speaker(s) or sound amplification device(s) is being used out of doors temporarily for a particular event, the application must be submitted to the Chief of Police at least three business days, excluding holidays, in advance of the installation of the equipment and must be accompanied by a $20.00 processing fee. If the use of such speaker or device out of doors will be continual, the application must be submitted to the Permitting Services Division prior to the installation of the equipment and must be accompanied by a fee which shall be set forth by resolution of City Council.

(5) The Chief of Police or the Permitting Services Division shall issue a permit provided the proposed use and speaker or device:

(a) Complies with subsections (2) through and including (10) of this section as applicable; and

(b)

Will not interfere with any governmental function or with any event previously permitted pursuant to Chapter 18A, Orlando City Code, or with any event scheduled through the Families, Parks and Recreation Department if the proposed use of the speaker or device is temporary for a particular event; and

(c) Is not for a location within 1,000 feet of an activity or another location previously permitted under this section for the same date and time if the proposed use of the speaker or device is temporary for a particular event; and

(d) Is not for a fully enclosed restaurant, bar, or other similar establishment that does not have a permitted sidewalk café or other approved designated outdoor space for patrons.

If the use of the loud speaker sound amplification device is not temporary for a particular event, but instead is continual, the permit shall be valid for a period of 12 months from the date of issuance, at which time the City may renew the permit for the next 12-month period under the same conditions provided the renewal fee is paid and the number, type, and location of the speaker(s) or device(s) has not changed. The City may also consider the number of citations that had been issued, if any, to the applicant for violations under this Chapter during the prior 12-month period when determining renewal of the permit. If, at the time of renewal, the number of speakers or devices has increased or the type or location of the speakers or devices has changed, the permit application process shall begin anew. Annual renewal of the permit is the responsibility of each permit holder.

If the loud speaker or sound amplification device is being used continually at a fixed location on a daily basis, the permit must be posted in a conspicuous place upon the premises at which the speaker or device is being used.

(6) For the purpose of providing an exemption from the prohibitions contained in subsections (2), and (3) above, there is hereby created a Downtown Entertainment Area which is described in Figure 1. Within said Area, loud speakers or other sound amplification devices for non-continual use may be used out of doors between 7:00 p.m. and 12:00 a.m. on weekdays and 7:00 p.m. and 2:00 a.m. on weekends and without regard to the other prohibitions set forth in subsections (2) and (3) above. However, sections 42.02 through 42.05 set forth herein shall still apply.

(7) Notwithstanding the prohibition contained in subsection (2) above, the City Council may approve and authorize extended hours for use of a loud speaker or other sound amplification device provided that a permit application is filed which contains the information specified in subsection (4) above and that the proposed activity otherwise

complies with the provisions of subsections (3) and (5) and the sound levels and standards prescribed in sections 42.02 through 42.05 herein. This subsection does not apply to loud speakers or sound amplification devices that are permitted for continuous use within the Downtown Entertainment Area as described in subsection (6).

(8) Except for loud speakers and sound amplification devices installed by the City, such speakers and devices that are permitted for continual use out of doors under subsection (1) shall not be located within the public rights-of-way, including the air space above such public rights-of-way, unless such use is for a permitted sidewalk café or for space that is part of an encroachment agreement with the City. In that instance, such speakers and devices shall not face or direct the sound upward toward airspace or toward any adjacent businesses, streets, alleys, rights-of-way, or property. Instead, such speakers and devices, whether permanently mounted or affixed to the exterior of the building or structure or freestanding, shall be set in such a way that the sound is directed downward and inward toward patrons and complies with the sound levels and standards set forth in sections 42.02 through 42.05 herein. If the speakers or devices are free-standing, they shall not be elevated more than five feet off of the ground.

(9) Any person, business, or property owner that is operating a restaurant, bar, or other similar establishment at a fixed location that is providing designated outdoor space to its patrons on private property (i.e. patio, rooftop, etc...) may utilize loud speakers or sound amplification devices for temporary or continual use out of doors as long as such speakers and devices are permitted under subsection (1). Such speakers and devices may be permanently mounted or affixed to the exterior of the building or structure or free-standing and shall not face or direct the sound upward toward airspace or outward toward any adjacent businesses, streets, alleys, rights-of-way, or property. Instead, such speakers and devices shall be set in such a way that the sound is directed downward and inward toward patrons and complies with the sound levels and standards set forth in sections 42.02 through 42.05 herein. If the speakers or devices are free-standing, they shall not be elevated more than five feet off of the ground.

(10) The City shall revoke a permit issued for continuous use under subsection (1) upon the issuance of a third civil citation within a 12-month period for utilizing a loud speaker or sound amplification device in violation of this Chapter. However, if a citation is ultimately dismissed it will not count toward the requisite number of citations for revocation. The City shall send written notice of the revocation to the violator named in the citation and to the property owner. The permit shall be revoked for the remainder of the 12-month period for which the permit was issued. During this time the speaker(s) or

device(s) shall be removed or disconnected and not used out of doors. After the revocation period has expired, an application for a new permit may be submitted in accordance with subsections (4) and (5) herein.

(11) Any applicant shall have the right to appeal the denial of a permit or the revocation of a permit by immediately requesting review with a court of competent jurisdiction or by appealing the decision to the City's Chief Administrative Officer (CAO). The appeal to the CAO shall be taken by the applicant within five (5) days after receipt of the notice of denial or revocation, by filing a written notice with the Office of the Chief Administrative Officer with a copy to the City Clerk. The CAO, or his/her designee, shall render a decision no later than ten (10) days following receipt of the notice of appeal. If the permit was denied, the CAO, or his/her designee shall direct the responsible department to issue a permit if the applicant has met the criteria set forth in this Chapter for issuance of a permit. If the permit was revoked, the CAO, or his/her designee, shall uphold the revocation if the criteria set forth in this Chapter for revoking a permit has been met. If the applicant is not satisfied with the decision of the CAO, the applicant may file a request for immediate review by the City Council with the City Clerk within five (5) days from the date the CAO's written decision was rendered.

(Ord. of 8-10-2009, § 1, Doc. #0908101101; Ord. No. 2013-14, § 1, 9-16-2013, Doc. #1309161202; Ord. No. 2017-38, § 5, 10-23-2017, Doc. #1710231203)

Sec. 42.08. - Method of Noise Measurement.

All measurements shall be made with a sound level meter. The sound level meter shall be calibrated in accordance with the meter manufacturer's recommendations. As necessary, a windscreen shall be utilized with the sound level meter. The measurements shall in general be made in accordance with the standards as promulgated by the American Society for Testing and Materials guidance.

(Ord. of 8-10-2009, § 1, Doc. #0908101101)

Sec. 42.09. - Enforcement.

This Chapter shall be enforced pursuant to the provisions set forth in Chapter 1, section 1.08 or Chapter 5, Article II of this Code.

(Ord. of 8-10-2009, § 1, Doc. #0908101101)

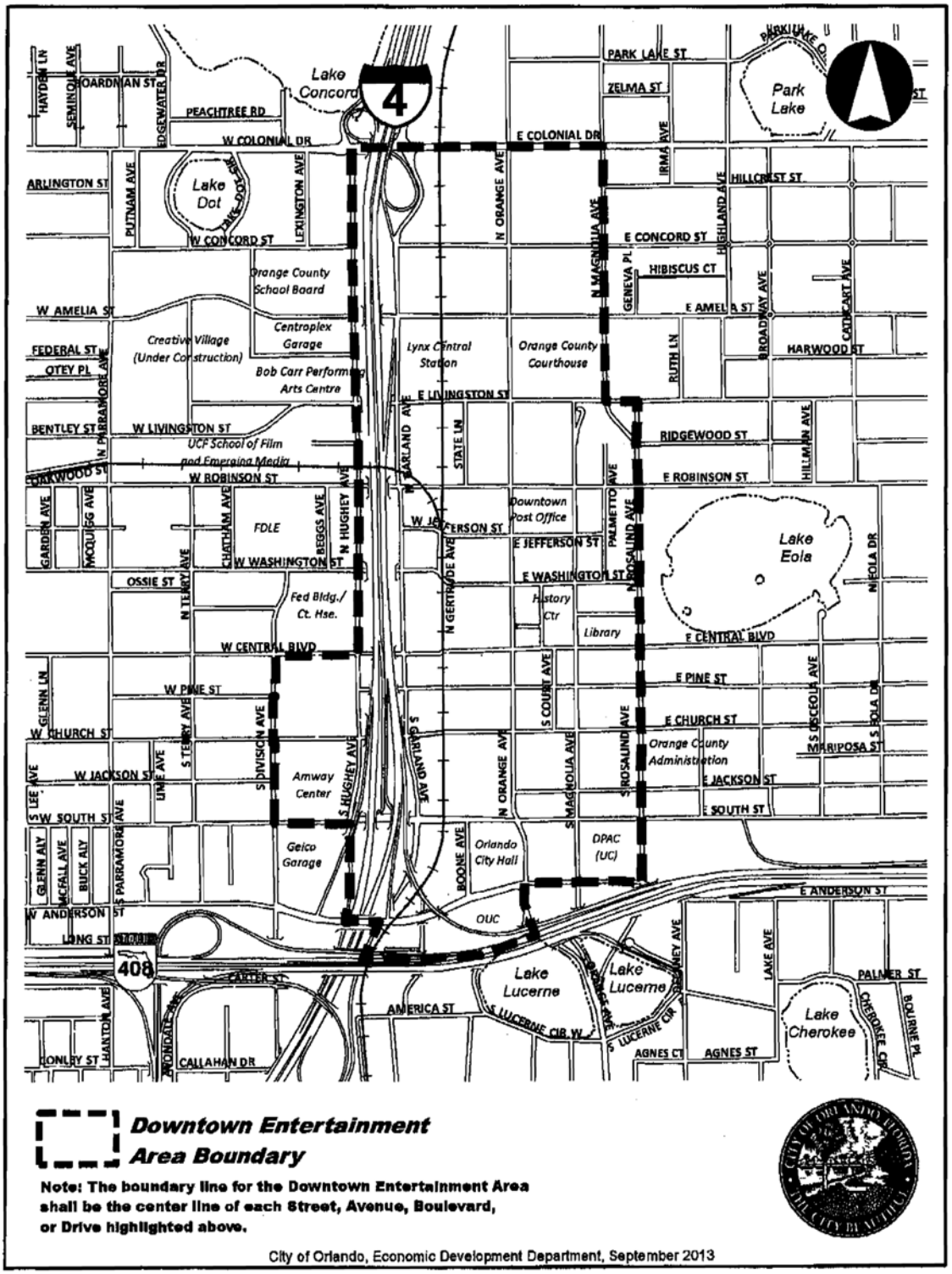


Figure 1

(Ord. No. 2013-14, § 1, 9-16-2013, Doc. #1309161202)

APPENDIX D

DIVISION OF HISTORICAL RESOURCES CORRESPONDENCE

FLORIDA DEPARTMENT of STATE

RON DESANTIS
Governor

MICHAEL ERTEL
Secretary of State

John Dunham
Burns & McDonnell Engineering Company, Inc.
9400 Ward Parkway
Kansas City, MO 64114

April 29, 2019

RE: DHR Project File No.: 2019-2085, Received by DHR: April 3, 2019
Project: *St. Cloud East - Magnolia Ranch North Transmission Line Project*
County: Orange

To Whom It May Concern:

Our office has reviewed the above-referenced project and provided comments as part of a Due Diligence review for the applicant in advance of applying for a state permit. Please note that our comments may change if additional information is presented for this project when the state permit application is received. This letter does not constitute a review under Section 106 of the *National Historic Preservation Act.*

Based on the information we have received, it is the opinion of this office that the proposed project is unlikely to affect historic properties. However, since unexpected finds may occur during ground disturbing activities, we request that the applicant has a plan in place in the event of inadvertent cultural resource discoveries:

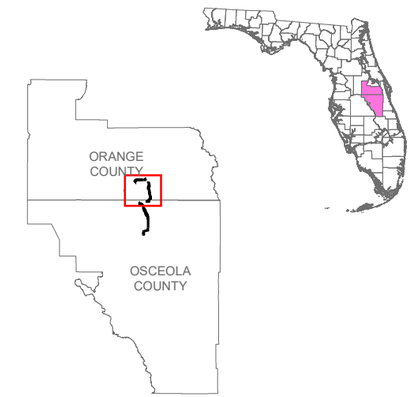
- If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The applicant shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section at (850)-245-6333. Project activities shall not resume without verbal and/or written authorization. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, *Florida Statutes*.

If you have any questions, please contact Eric Griffis, Historic Sites Specialist, by email at *Eric.Griffis@dos.myflorida.com*, or by telephone at 850.245.6366 or 800.847.7278.

Sincerely,

Jason Aldridge
For
Timothy A Parsons, Ph.D.
Director, Division of Historical Resources
& State Historic Preservation Officer

KEY MAP



LEGEND

- CULTURAL SITES
- PROPOSED CORRIDOR

0 0.375 0.75 1.5
MILES

REFERENCE(S)
1. PROPOSED CORRIDOR, OUC & GOLDER, 2019.
2. CULTURAL RESOURCES, ENVIRONMENTAL SERVICES, INC., 2020.

COORDINATE SYSTEM: NAD 1983 STATEPLANE FLORIDA EAST FIPS 0901 FEET
PROJECTION: TRANSVERSE MERCATOR
DATUM: NORTH AMERICAN 1983

CLIENT
ORLANDO UTILITIES COMMISSION

PROJECT
ST. CLOUD EAST TO MAGNOLIA RANCH NORTH 230 KV TRANSMISSION LINE PROJECT

TITLE
PREVIOUSLY RECORDED CULTURAL RESOURCES

CONSULTANT
OUC The Reliable One

YYYY-MM-DD	2020-10-26
DESIGNED	NRL
PREPARED	GFD
REVIEWED	KAB
APPROVED	KAB

PROJECT NO.	CONTROL	REV.	FIGURE
19115515	C036	0	1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B
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