



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
FORT MYERS PERMITS SECTION  
1520 ROYAL PALM SQUARE BOULEVARD SUITE 310  
FT MYERS, FL 33919-1036

July 15, 2019

Regulatory Division  
West Permits Branch  
Fort Myers Permits Section

## ***PUBLIC NOTICE***

DA Permit Application No. SAJ-2012-00841(SP-KRD)

TO WHOM IT MAY CONCERN: The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army (DA) permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) as described below:

APPLICANT:  
Collier County Board of County Commissioners  
Attention: Steve Carnell  
3299 East Tamiami Trail  
Naples, Florida 34112

WATERWAY AND LOCATION: The project would affect waters of the United States associated with two existing borrow pits and existing drainage canals associated with the Bird Rookery Swamp/ Corkscrew Swamp and the Fakahatchee Strand State Preserve. The project site is located on a 228.15 acre parcel located north of Oil Well Road and east of Immokalee Road, Section 14, Township 48 South, Range 27 East, in Naples, Collier County, Florida.

Directions to the site are as follows: From Fort Myers, Florida take I-75 South to Exit #111 to Immokalee Road in Naples, Collier County, and continue approximately 12 miles and take a right onto 39<sup>th</sup> Avenue NE. The project parcel is located in the citrus groves and around the existing 93+ acre borrow pit to the east of the terminus of 39<sup>th</sup> Avenue NE.

APPROXIMATE CENTRAL COORDINATES: Latitude 26.304341  
Longitude -81.579967

### **PROJECT PURPOSE:**

Basic: Community recreational development

Overall: Permit modification / expansion request for the development of a countywide regional and community park system to provide parks, a recreation facility, and open space areas to meet the needs of residents and visitors of Collier County.

**EXISTING CONDITIONS:** The wetland system consists of a freshwater drainage canals and borrow pits with downstream and upstream connections to non-tidal forested wetland systems. The proposed project site consists of a mixture of an active citrus grove, abandoned large and small borrow pit, and drainage canals. The area is surrounded by single family subdivisions and two public schools. The dominant habitat types on site, as previously stated, are Citrus (221) and Borrow pits (742). The entire site provides poor quality habitat for vertebrates. The wetlands "other surface waters" have been severely impacted by surrounding development and the presence of exotic / nuisance vegetation. The area proposed to be impacted is primarily vegetated with cattails.

**PROPOSED WORK:** The applicant seeks authorization for construction of Phase 2 of the Big Corkscrew Regional Park which is located on a 228+ acre parcel located north of Oil Well Road and east of Immokalee Road, Section 14, Township 48 South, Range 27 East, in Naples, Collier County, Florida. The project will involve the construction of amenities such as ball fields, open lake area, and a gymnasium with associated parking lots, access roads, and other infrastructure.

The project will involve the removal of existing berms and excavation of approximately 59.62 acres (1,250,000 CY) of the existing agricultural/stormwater pond, drainage canal, and borrow pit in order to connect the three water bodies and increase the size and depth of the existing borrow pit. This excavated material will be used to permanently fill approximately 48.66 acres (520,000 cubic yards (CY)) of the existing borrow pit for the creation of ball fields and other park amenities. Finally, the previously authorized road which was to terminate at the Orange Blossom Ranch will be extended to include a cul-de-sac and southern extension to connect to Oil Well Road. This road will connect Orange Blossom Ranch subdivision to the proposed Regional Park and Oil Well Road and will impact 7.68-acre of uplands (4.27-acres of cleared land and 3.41-acres of citrus fields).

The project will also result in the creation of new open water ponds and approximately 9-acres of littoral shelf habitat. By excavating and filling, the Applicant proposes to create more shoreline, appropriate side slopes, and littoral shelves which will be a net increase in habitat for wood storks and other wading birds. The current steep side slopes, borrow pit depth, and cattail dominated shorelines do not provide suitable wading bird habitat.

**PROJECT HISTORY:** The first phase of this project went out to Public Notice on 17 January 2018 and was issued a final DA permit on 6 February 2019. The original permit limited impacts primarily to the citrus grove with minimal impacts to the existing borrow pit. The permit authorized the permanent fill of approximately 5.02-acres of the existing 93+ acre borrow pit for the construction of a road that will connect Orange Blossom Ranch subdivision to the proposed regional park; the discharge of fill totaling 2.25-acres and the excavation of approximately 0.65-acres of waters of the U.S. for the reshaping of the existing drainage canal; and the excavation of 2.1-acres of the existing smaller borrow pit, located at the northeast side of the project site, in order to expand and

create proper side slopes for conversion into a stormwater management pond. In total, this permit authorized the permanent fill of approximately 7.30-acres and excavation of 2.75-acres of jurisdictional surface waters comprised of the existing borrow pits and a drainage canal.

The proposed permit modification will include additional impacts proposed to the borrow pit. The proposed excavation of approximately 59.62-acres will increase the borrow pit size and to deepen open water portions of the borrow pit. The proposed filling of approximately 48.66-acres of the existing borrow pit will be for the creation of ball fields and other park amenities.

**AVOIDANCE AND MINIMIZATION INFORMATION:** The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

**Avoidance:** The project site was selected to take advantage of an existing area that needs a public park but that has already been disturbed by adjacent development. There are no wetlands within the project area and impacts to “other surface waters” (i.e. borrow pit, drainage canal, and agricultural/stormwater pond) will not cause a significant permanent loss of aquatic resources.

**Minimization:** The project as proposed represents the consideration of numerous alternatives that all considered the minimization or elimination of wetland impacts. As currently proposed this project balances the numerous demands of many competing regulations into a workable cost-effective project. Such regulatory factors as fire safety, parking, zoning, indigenous preservation, setbacks, buffering, landscape and aesthetics, as well, as such practical considerations as utility service, vehicle access, market conditions and building support spaces all played into the ultimate design that is presented.

Alternative sites for the project were limited. This proposed regional park is designed and located to service citizens in an area currently lacking such facilities. The surrounding (adjoining) properties are developed as either roadway or in educational (schools) and residential uses. The construction of this site would be considered redevelopment of an existing impacted parcel. This alleviates the use of lands outside the urban area, for similar use. Chapter 163.3177 (6)(e), Florida Statutes require each local government comprehensive plan to have a recreational and open space element indicating a comprehensive system of public and private sites for recreation, including, but not limited to, natural reservations, parks and playgrounds, parkways, beaches and public access to beaches, open spaces, and other recreational facilities.

**COMPENSATORY MITIGATION:** The applicant has provided the following explanation why compensatory mitigation should not be required:

The impacts proposed are to man -made water bodies. Those being borrow pits and a drainage canal. Little to no adverse environmental effects are proposed. Since the

proposed impacts are to these water bodies “Other Surface Waters” no compensatory mitigation is proposed. The proposed impacts will actually improve the ecological values of these water bodies.

The project will also result in the creation of new open water ponds and approximately 9-acres of littoral shelf habitat. By excavating and filling, the Applicant proposes to create more shoreline, appropriate side slopes, and littoral shelves which will be a net increase in habitat for wood storks and other wading birds. The current steep side slopes, borrow pit depth, and cattail dominated shorelines do not provide suitable wading bird habitat.

**CULTURAL RESOURCES:** The Corps is not aware of any known historic properties within the permit area. By copy of this public notice, the Corps is providing information for review. Our final determination relative to historic resource impacts is subject to review by and coordination with the State Historic Preservation Officer and those federally recognized tribes with concerns in Florida and the Permit Area. A Cultural Resource Assessment Survey by Archaeological Consultants on May 2018 found no cultural and/or historical resources.

#### **ENDANGERED SPECIES:**

*Name of species potentially present and managed by the U.S. Fish and Wildlife Service (USFWS):*

- Audubon’s Crested Caracara (*Polyborus plancus audubonii*)
- Eastern Indigo Snake (*Drymarchon couperi*)
- Everglades Snail Kite (*Rostrhamus sociabilis plumbeus*)
- Florida Bonneted Bat (*Eumops floridanus*)
- Florida Panther (*Puma concolor coryi*)
- Florida Scrub Jay (*Aphelocoma coerulescens*)
- Red Cockaded Woodpecker (*Picoides borealis*)
- Wood Stork (*Mycteria americana*)

Effect determination(s), including no effect, for all known species/habitat, and basis for determination(s):

Based upon information provided by the Applicant, the Corps has determined the proposed project may affect, but is not likely to adversely affect the: Eastern Indigo Snake (*Drymarchon couperi*), Florida Bonneted Bat [FBB] (*Eumops floridanus*), Florida Panther (*Puma concolor coryi*), and Wood Stork (*Mycteria americana*). The project will not impact any designated critical habitat. The Corp will request U.S. Fish and Wildlife Service (USFWS) concurrence with these determinations pursuant to Section 7 of the Endangered Species Act, as deemed necessary and noted below. This project was previously reviewed by USFWS consultation number 41420-2018-F-0308. USFWS provided a Biological Opinion (BO) in which it was determined that Phase 1 of the project may affect, but was not likely to adversely affect (MANLAA) the Everglades Snail

Kite, FBB, and Wood stork. The BO also determined that the project was not likely to jeopardize the continued existence of the Florida panther.

Eastern Indigo Snake: Potential impacts to the eastern indigo snake were evaluated using the revised SFESO Eastern Indigo Snake key dated July 2017. The Corps has programmatic concurrence with the sequential determination of A>B>C>D>NLAA (not likely to adversely affect) pursuant to the key. This determination is based on the project's impacts to less than 25 acres of eastern indigo snake habitat, the site having no known active or inactive gopher tortoise burrows, and the permit shall be conditioned to use the Standard Protection Measures for the Eastern Indigo Snake (dated August 12, 2013). Furthermore, the applicant had listed species surveys conducted in April-June 2017 and again on April 2019 and the application documented that no suitable habitat for Gopher tortoise was found and searches within the spoil material areas showed no signs of burrows or individual tortoises. The Corps has USFWS concurrence for the proposed activities through use of the aforementioned determination key and no further consultation will be required.

Everglades Snail Kite: The project site is within the Everglades snail kite consultation area, however it is not in or near the species critical habitat or a priority management zone. Potential impacts were evaluated using the SFESO's May 18, 2004 Snail Kite Survey Protocol to judge adequacy of the habitat for snail kites (i.e., presence of appropriate foraging habitat, presence of nesting or perching substrate, presence of appropriate water depth under nesting substrate, adequate distance of nesting substrate from uplands, and proximity to nearest wading bird colony). The project site may contain suitable habitat for nesting or perching (i.e. cattails (*Typha* spp.) and reed grass (*Phragmites* spp.), however, no individuals or nests were observed on the property. The project will impact a portion of the borrow pit. Overall, the proposed impacts will improve the overall ecological value of the borrow pit. The Corp has determined the project may, affect, but is not likely to adversely affect this species and further consultation may be required.

Florida Bonneted Bat: The project is located outside of the Florida bonneted bat (FBB) focal area, but within the overall consultation area. Potential impacts to the FBB were evaluated using the 2013 FBB consultation guidelines key and results of the FBB survey conducted by Collier Environmental consultants on May 2017 and again on April 2019. The survey results indicated that no individuals or cavities were documented, but an acoustic survey did pick up the FBB's signature call on two occasions during the May 2017 survey and again in the April 2019 survey. It is assumed that the large borrow pit provides foraging and watering habitat for the bat. Use of the 2013 consultation guidelines has led the Corps to determine the project may affect the FB as the project keys out 2>c>My Affect because the project site is greater than 5 acres and includes more than 1 acre of open water habitat (i.e. the borrow pits). However, this project is not anticipated to negatively impact the FBB because part of the borrow pit area will remain and still provide foraging and a source of water for the bats. The project will impact a small portion of upland citrus groves, borrow pits and drainage ditches which does not include potential roost sites. Based on these factors, the Corps may be required to

reinitiate consultation with USFWS, but will be requesting concurrence that this project may affect, but is not likely to adversely affect the FBB.

Florida Panther: The project site is within the Florida panther focus area. The Corps has determined the project may affect, but is not likely to adversely affect the Florida panther. Potential impacts to the panther were evaluated using the February 19, 2007 Florida Panther Effect Determination Key which resulted in the sequential determination of A>C>May Affect because the project is within the Panther Focus Area and is greater than 1 acre. However, a previous consultation was conducted for the Florida panther on this project site in 2012. The consultation resulted in concurrence with a may affect, but not likely to adversely affect determination. Furthermore, because the project areas consist of a mixture of citrus grove and a large borrow pit surrounded by single-family subdivisions and two public schools, the Corps does not anticipate a significant increase in traffic as a result of this project. Therefore, the Corps has determined the project may affect, but is not likely to adversely affect the panther and will reinitiate consultation with USFWS. The applicant has purchased 352 Panther Habitat Units for impacts to the citrus associated with Corps permit SAJ-2012-00841 (Phase 1).

Wood Stork: The project is located within Wood Stork Colonies buffer areas, but is not within 0.47 miles of an active colony. However, the project site does support suitable foraging habitat (SFH). The applicant provided a Wood Stork Foraging Analysis, dated June 2017, which indicated that SFH would be limited to the first five feet from the waters edge of the borrow pit after which the water depths would be too deep for foraging. It was estimated that approximately 0.44 acre of SFH would be impacted, although a majority of this area consist of impenetrable cattails (*Typha* spp.) and would most likely not be used by the wood stork. There were no individuals documented during the April-June 2017 or the April 2019 survey, but their presence would be suspected, in accordance with the Corps and USFWS SFESO South Florida Programmatic Concurrence Wood Stork Key (May 18, 2010), the project keyed out A (SFH greater than 0.76km from active colony) > B (SFH >0.20 hectare) > C (SFH not within CFA) > D > May Affect (a proper Wood Stork Foraging Habitat Assessment has not been completed). The end result of the project will be proper slopes that could provide increased foraging habitat. Therefore, the Corps has determined the project may affect the Wood stork and further consultation will be required.

The Corps has determined the proposal would have no effect on any listed threatened or endangered species designated critical habitat. The Corps has also determined that the proposed project will have no effect on the Audubon's Crested Caracara (*Polyborus plancus audubonii*), Florida Scrub Jay (*Aphelocoma coerulescens*), and Red Cockaded Woodpecker (*Picoides borealis*) because the project site does not support suitable habitat for any of these species.

**ESSENTIAL FISH HABITAT (EFH):** This notice initiates consultation with the National Marine Fisheries Service on EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. Since the project site is located inland of any

tidal waters or freshwater rivers, the proposal would not impact any EFH habitat does not require consultation with the National Marine Fisheries Service.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The jurisdictional line has been verified by Corps personnel via a preliminary jurisdictional determination provided with the February 2019 standard permit authorization for Phase 1 of this project.

AUTHORIZATION FROM OTHER AGENCIES: Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

COMMENTS regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the Fort Myers Permits Section, 1520 Royal Palm Square Boulevard, Suite 310, Fort Myers, Florida 33919 within 21 days from the date of this notice (i.e. by August 5, 2019).

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

QUESTIONS concerning this application should be directed to the project manager, Katy Damico, in writing at the Fort Myers Permits Section, 1520 Royal Palm Square Boulevard, Suite 310, Fort Myers, Florida 33919; by electronic mail at [Katy.R.Damico@usace.army.mil](mailto:Katy.R.Damico@usace.army.mil) ; or by telephone at (813) 769-7076.

IMPACT ON NATURAL RESOURCES: Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership,

and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

The US Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**COASTAL ZONE MANAGEMENT CONSISTENCY:** In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

**REQUEST FOR PUBLIC HEARING:** Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.



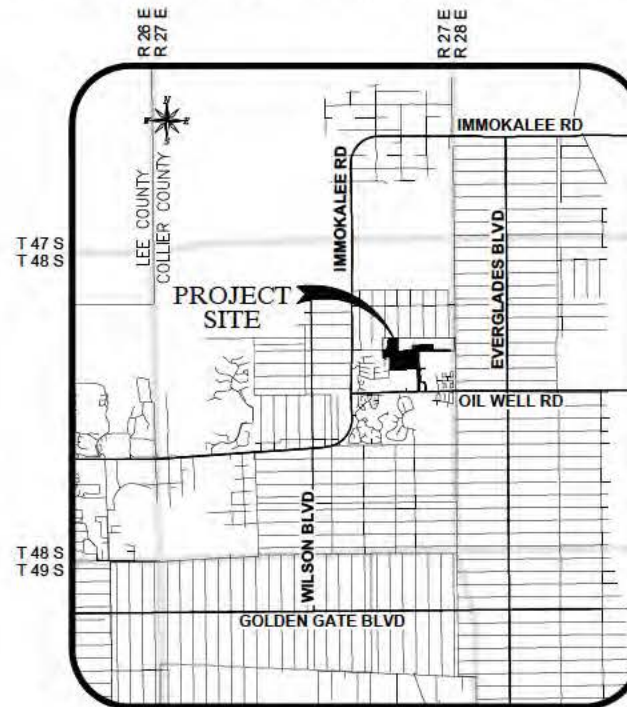
# Big Corkscrew Island Regional Park

## Phase 1 & 2

Located in Collier County  
Section 11, 13, 14, Township 48 South, Range 27 East

### Owner/Developer:

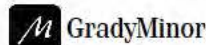
**COLLIER COUNTY**  
Board of County Commissioners  
Facilities Management Division  
3335 Tamiami Trail East, Suite 101  
Naples, FL 34112-5356  
Tel: 239.252.8380  
Fax: 239.252.3795



### Location Map

SCALE: N.T.S.

### Prepared by:



Civil Engineers • Land Surveyors • Planners • Landscape Architects  
Cert. of Auth. EB 0005151 Cert. of Auth. LB 0005151 Business LC 26000296  
Bonita Springs: 239.947.1144 www.GradyMinor.com Fort Myers: 239.690.4380

O. Grady Minor and Associates, P.A.  
3800 Via Del Rey  
Bonita Springs, Florida 34134

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### Revisions

Revision	Date	Description	By

MICHAEL J. DELATE, P.E.  
O. GRADY MINOR & ASSOC., P.A.  
3800 VIA DEL REY  
BONITA SPRINGS, FL 34134  
FLORIDA P.E. LICENSE NO. 49442  
EB/LB 0005151

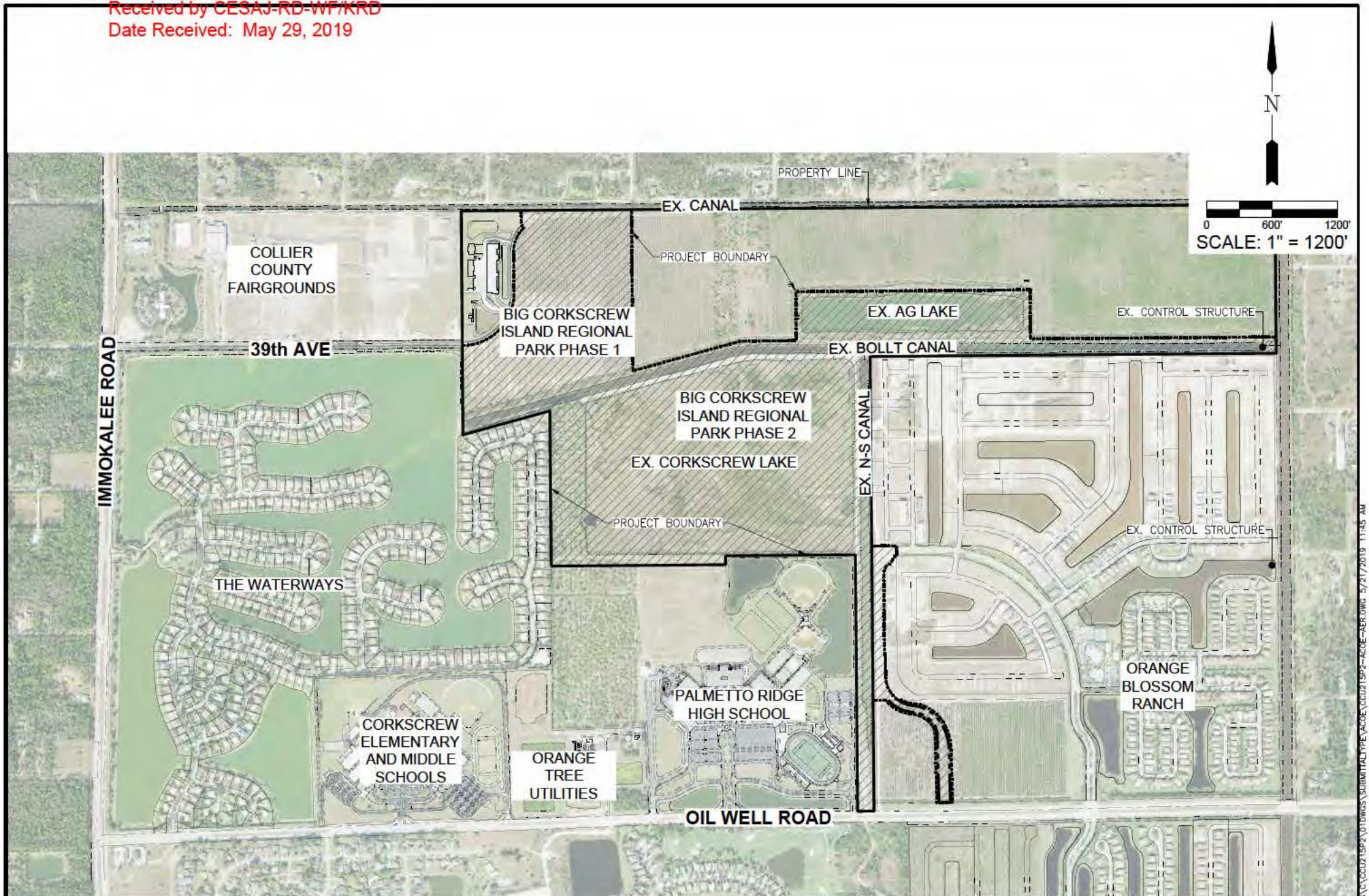
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FILE NAME: C00215P2-ACOE-COV.DWG  
JOB CODE: C00215P2  
SHEET NUMBER: 1 OF 18

SUBMITTAL  
ACOE

Big Corkscrew Island Regional Park  
Phase 1 & 2

GradyMinor





# LEGEND



PROJECT AREA



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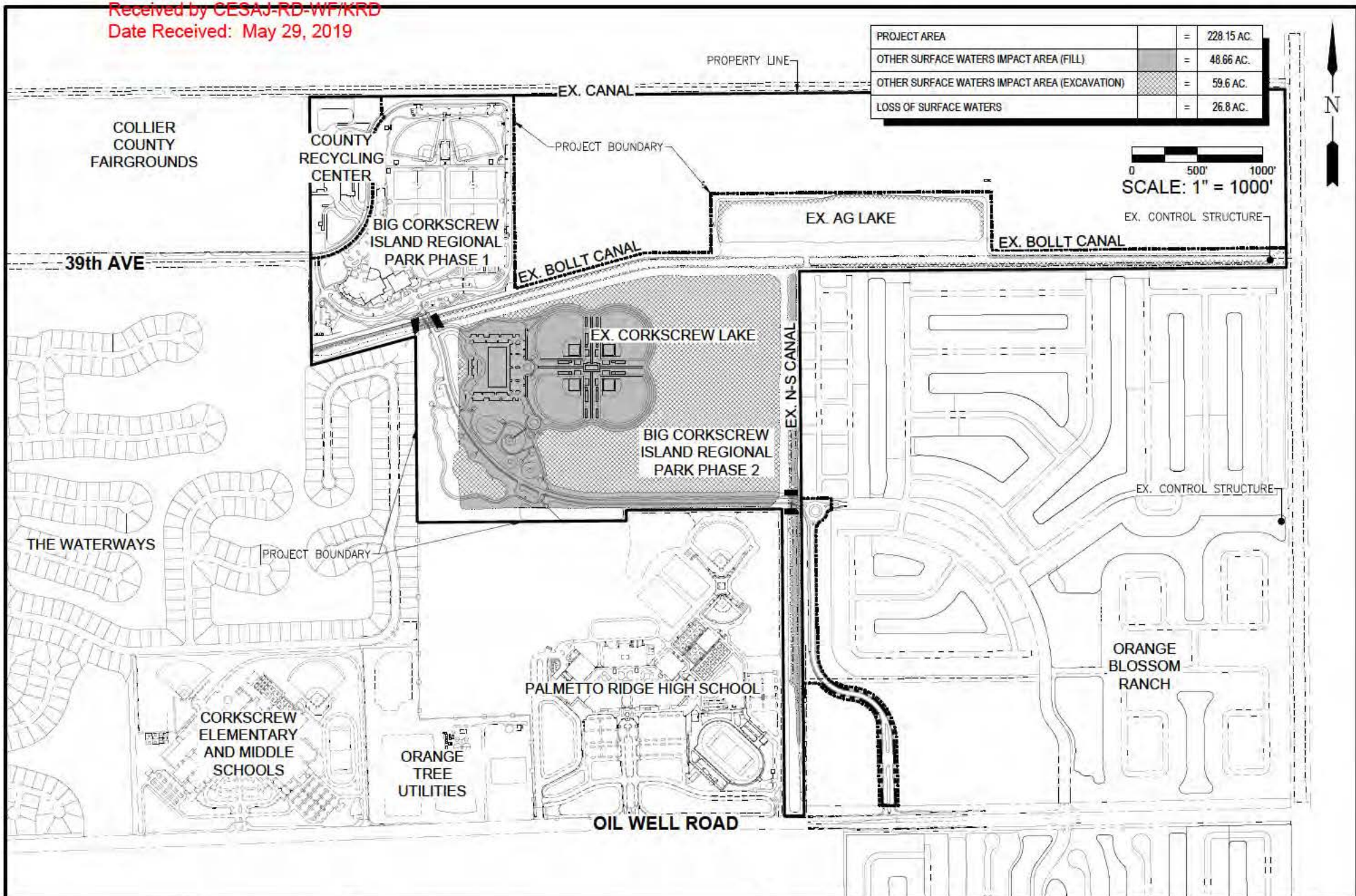
## BIG CORKSCREW ISLAND REGIONAL PARK PHASE 1 & 2

AERIAL

ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODEIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

MUNICIPALITY:  
COLIER COUNTY  
SBC/TWNSHIP/BRG  
U.S. 14/MS/2/E  
DATE:  
MAY 2019  
SUBMITTAL TYPE:  
ACCE  
SCALE:  
1" = 1200'  
JOB CODE:  
CCU215P2  
SHEET 2 OF 18





**LEGEND**



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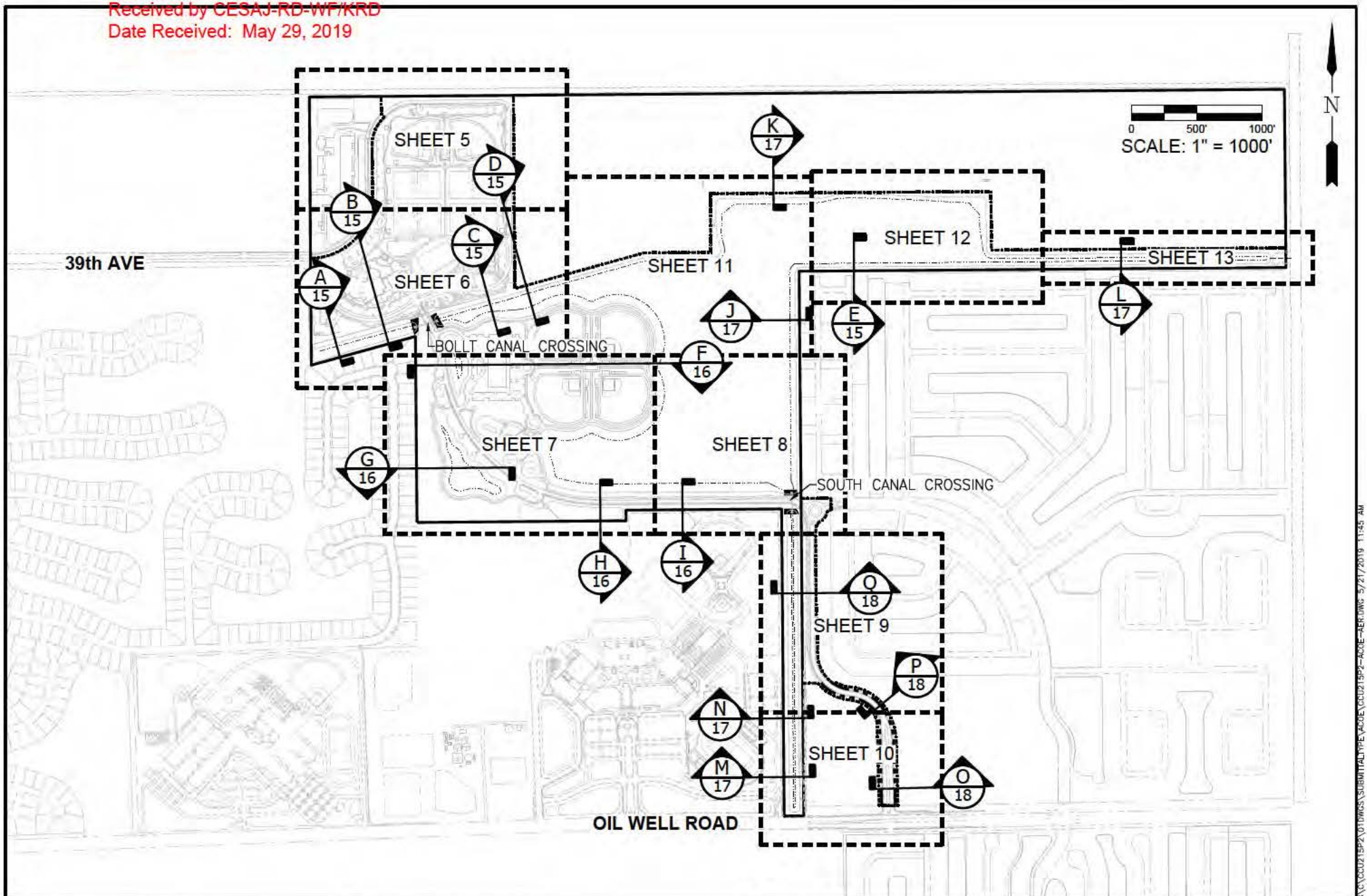
**BIG CORKSCREW ISLAND REGIONAL PARK  
PHASE 1 & 2**

**OVERALL SITE PLAN**

ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODETTIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

MUNICIPALITY:  
COLLIER COUNTY  
SHE/TPSRP/BRG  
U.S. 14/MS/2/E  
DATE:  
MAY 2019  
SUBMITTAL TYPE  
ACCE  
SCALE:  
1" = 1000'  
JOB CODE:  
CC0215P2  
SHEET 3 OF 18





# LEGEND



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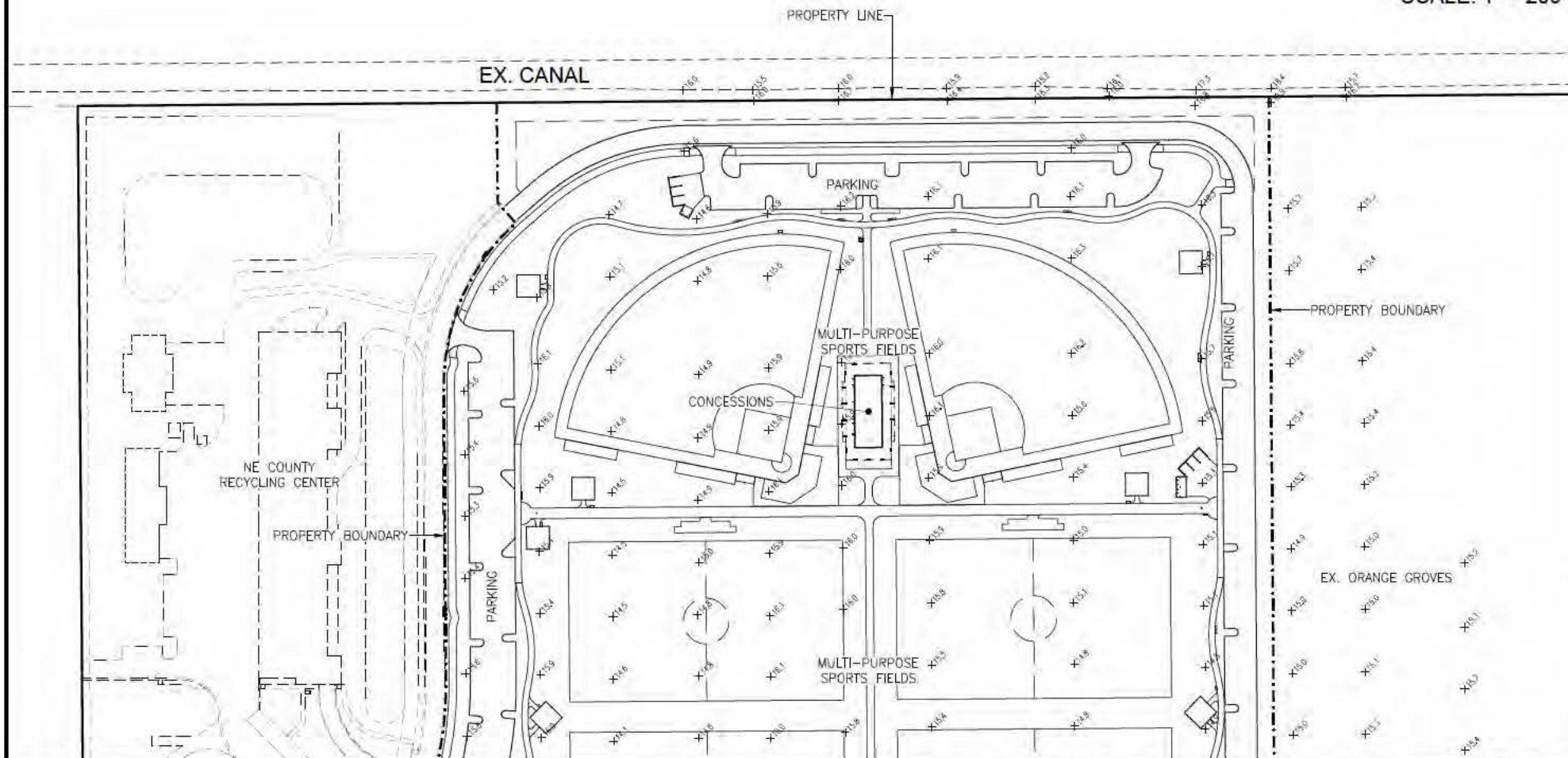
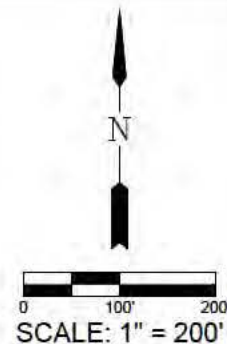
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## **BIG CORKSCREW ISLAND REGIONAL PARK PHASE 1 & 2**

### KEY MAP

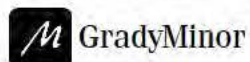
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MUNICIPALITY:  
COLLIER COUNTY  
SBC/TOWNSHIP/BRG  
11.33.14/40S/27E  
DATE:  
MAY 2019  
SUBMITTAL TYPE  
ACCE  
SCALE:  
1" = 1000'  
JOB CODE:  
CC0215P2  
SHEET 4 OF 18



**LEGEND**

X15.00 EXISTING GRADE



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Bonita Springs, Florida 34134

**BIG CORKSCREW ISLAND REGIONAL PARK  
PHASE 1 & 2**

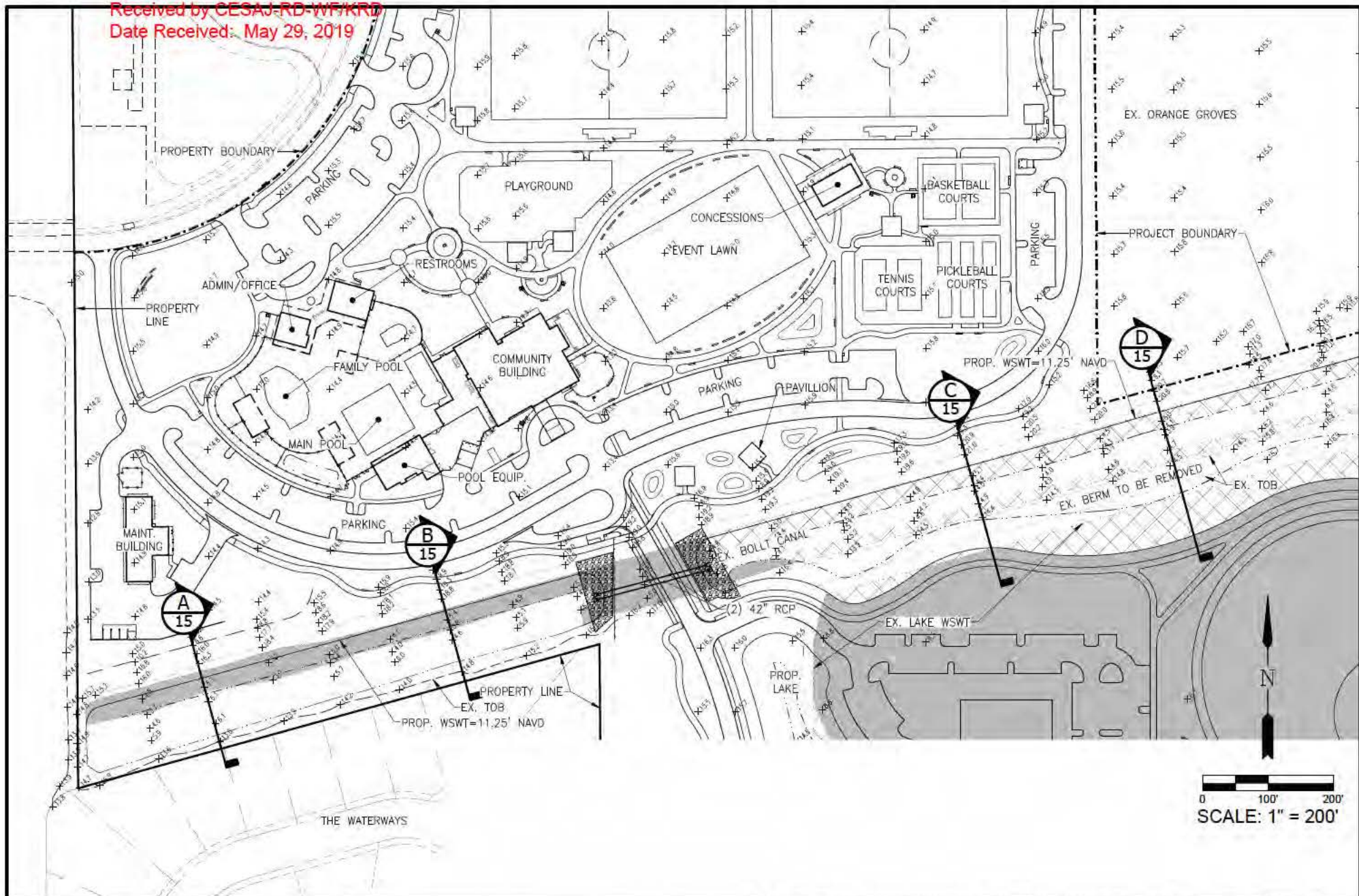
**SITE PLAN 1**

ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODEIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

MUNICIPALITY: COLLIER COUNTY  
SHEET NUMBER: 5  
DATE: MAY 2019  
SUBMITTAL TYPE: ACCE  
SCALE: 1" = 200'  
JOB CODE: CC0215P2  
SHEET 5 OF 18

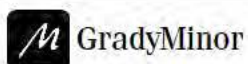
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# **LEGEND** **WETLAND IMPACT AREAS**

FILL  
EXCAVATION  
EXISTING GRADE



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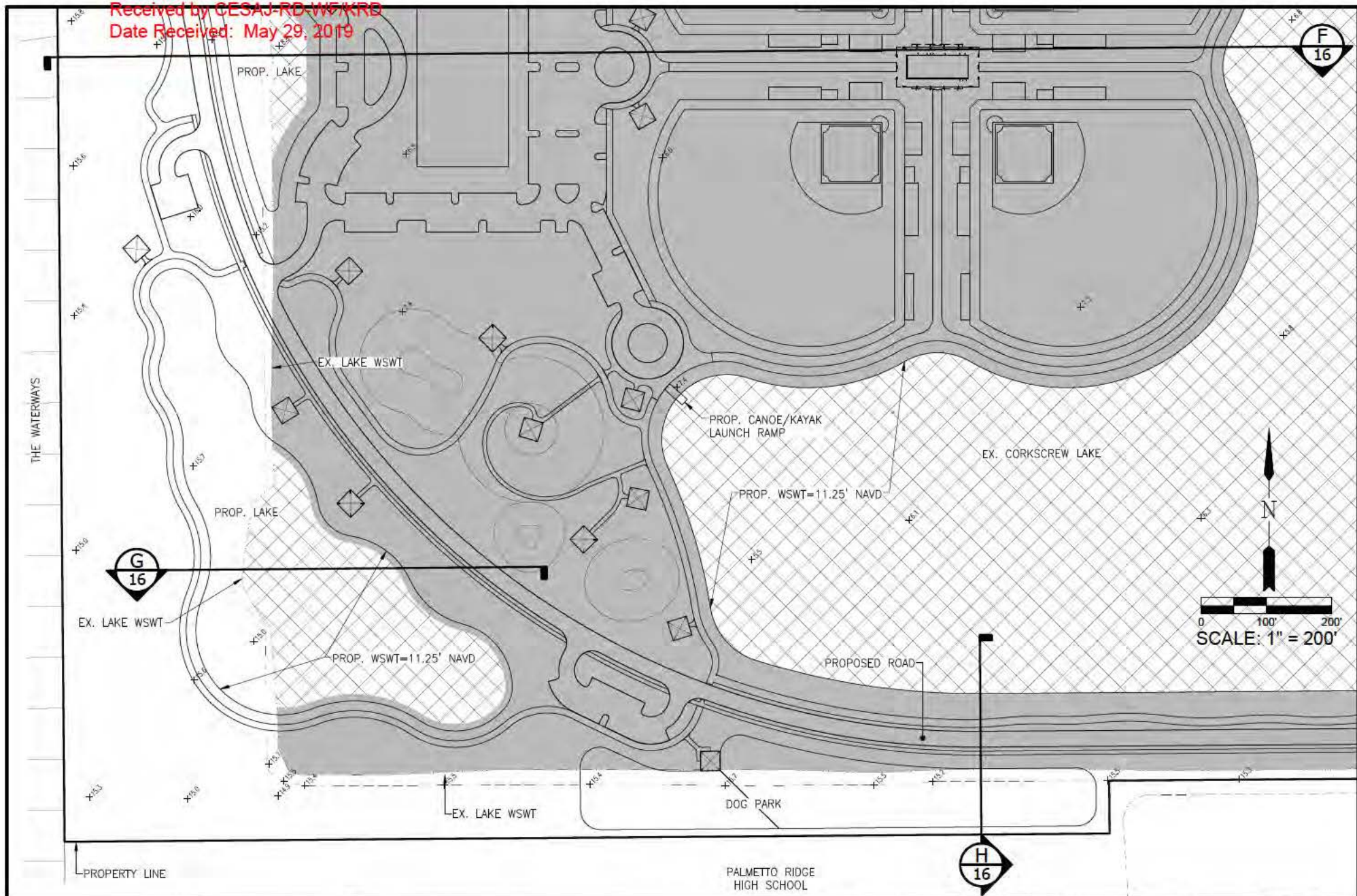
## **BIG CORKSCREW ISLAND REGIONAL PARK** **PHASE 1 & 2**

### **SITE PLAN 2**

ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
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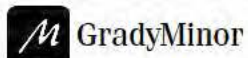
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COLLIER COUNTY  
SBC/TWRRP/BRG  
11.13.14/005/2/E  
DATE:  
MAY 2019  
SUBMITTAL TYPE:  
ACCE  
SCALE:  
1" = 300'  
JOB CODE:  
COU215P2  
SHEET 6 OF 18





# **LEGEND** **WETLAND IMPACT AREAS**

FILL  
EXCAVATION  
EXISTING GRADE



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Bonita Springs, Florida 34134

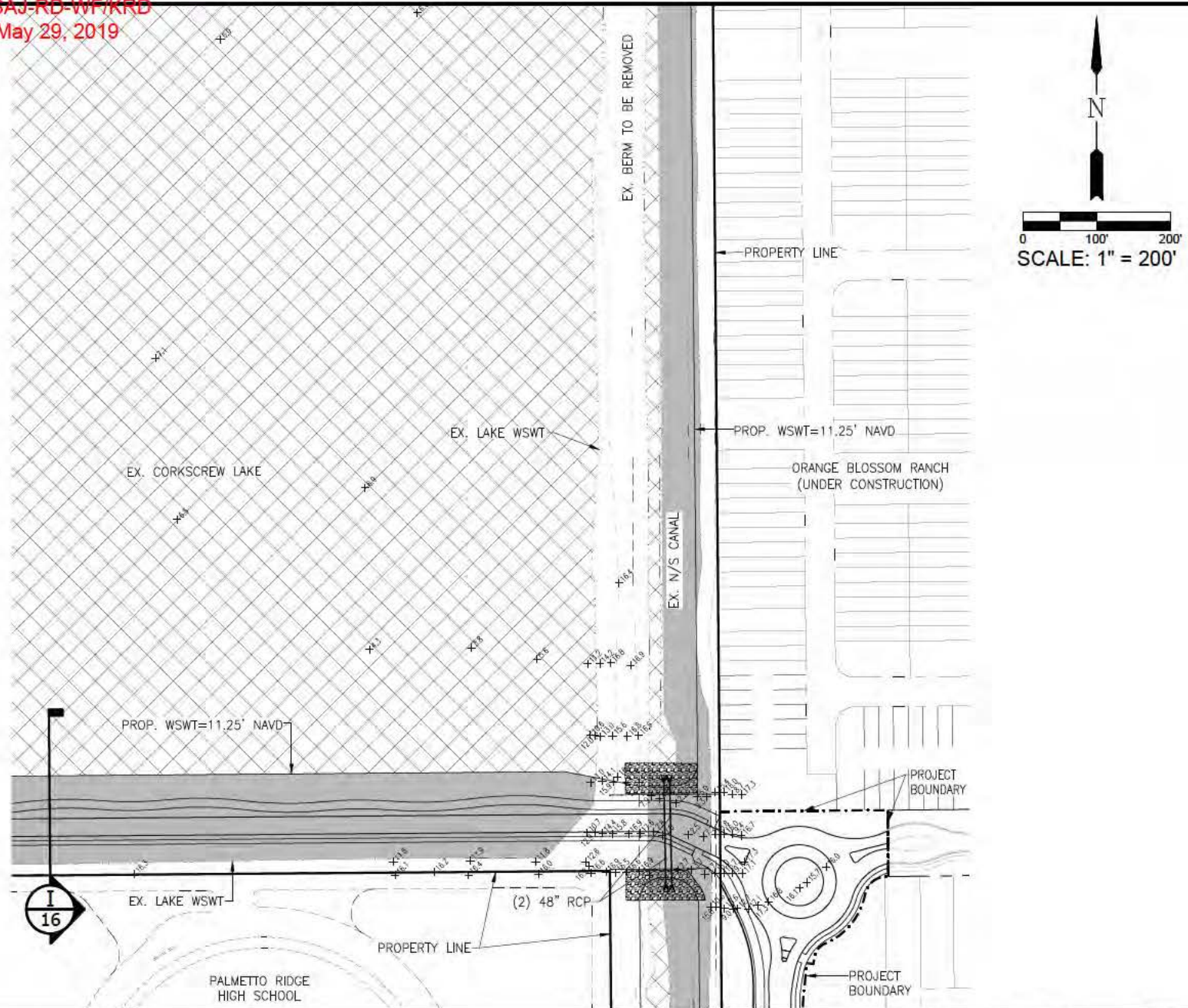
## **BIG CORKSCREW ISLAND REGIONAL PARK** **PHASE 1 & 2**

### **SITE PLAN 3**

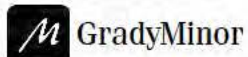
ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODEIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

MUNICIPALITY:  
COLLIER COUNTY  
SBC/TWNSHIP/BRG  
11.13.14/MS/2/E  
DATE:  
MAY 2019  
SUBMITTAL TYPE:  
ACCE  
SCALE:  
1" = 200'  
JOB CODE:  
CC0215P2  
SHEET 7 OF 18





**LEGEND**  
**WETLAND IMPACT AREAS**



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**BIG CORKSCREW ISLAND REGIONAL PARK**  
**PHASE 1 & 2**

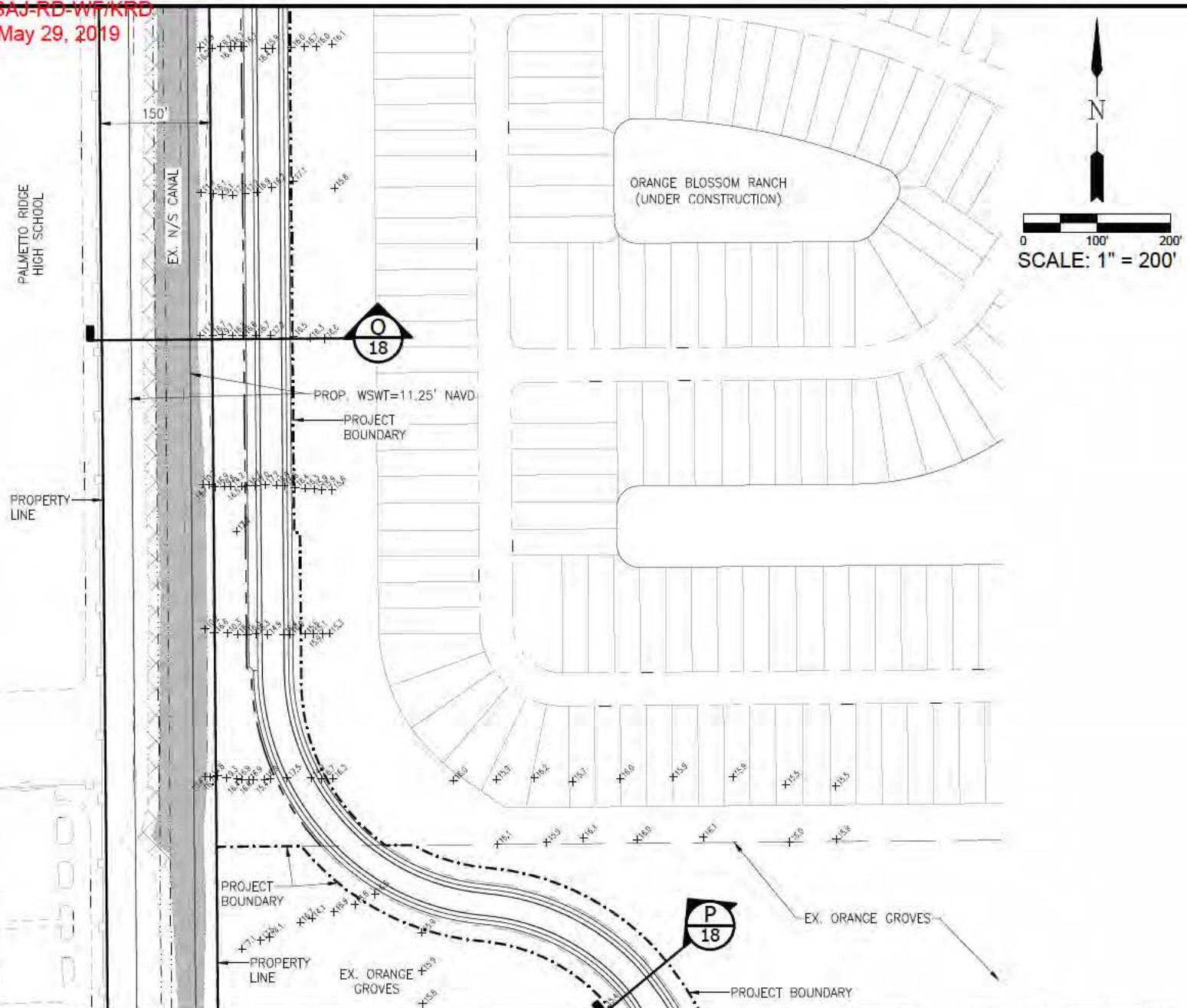
**SITE PLAN 4**

ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODEIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

MUNICIPALITY: COLLIER COUNTY  
SHEET/TOWNSHIP/SECTION: 1, 3, 14/40S/27E  
DATE: MAY 2019  
SUBMITTAL TYPE: ACCE  
SCALE: 1" = 200'  
JOB CODE: CC0215P2  
SHEET 8 OF 18

\\ENGINEERING\PROJ-ENR\CC0215P2\TOWNSHIP\SUBMITTAL\TYPE\ACCE\CC0215P2-ACCE-SITE DWG 5/21/2019 11:46 AM

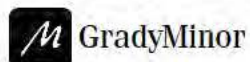




**LEGEND**

**WETLAND IMPACT AREAS**

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	EXISTING GRADE



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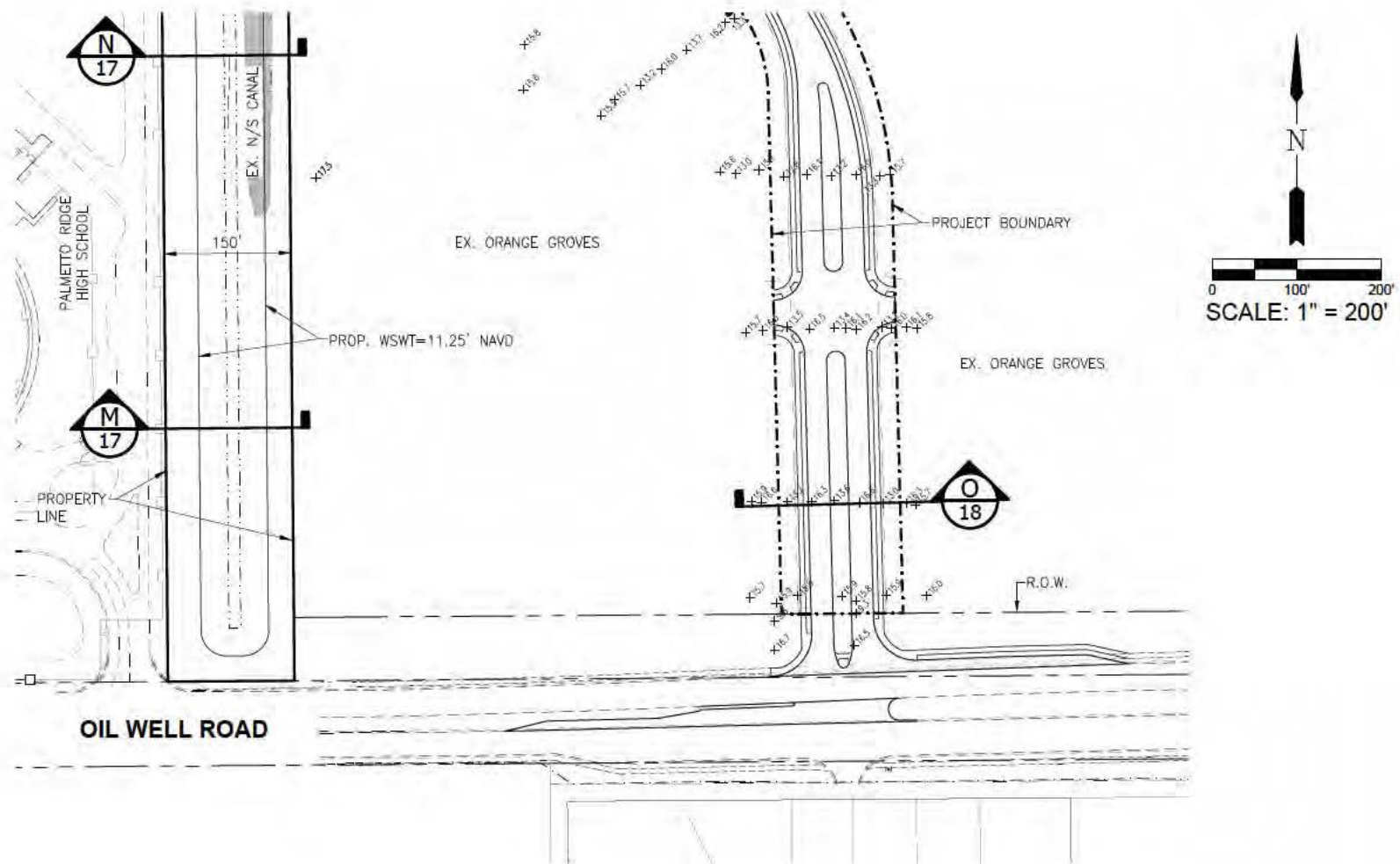
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**BIG CORKSCREW ISLAND REGIONAL PARK**  
**PHASE 1 & 2**




**SITE PLAN 5**


ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODEIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

PROJECT: BIG CORKSCREW ISLAND REGIONAL PARK  
SHEET: 5 OF 18  
DATE: MAY 2019  
SUBMITTAL TYPE: ACCE  
SCALE: 1" = 200'  
JOB CODE: CC0215P2  
SHEET: 5 OF 18



**LEGEND**  
**WETLAND IMPACT AREAS**

	FILL
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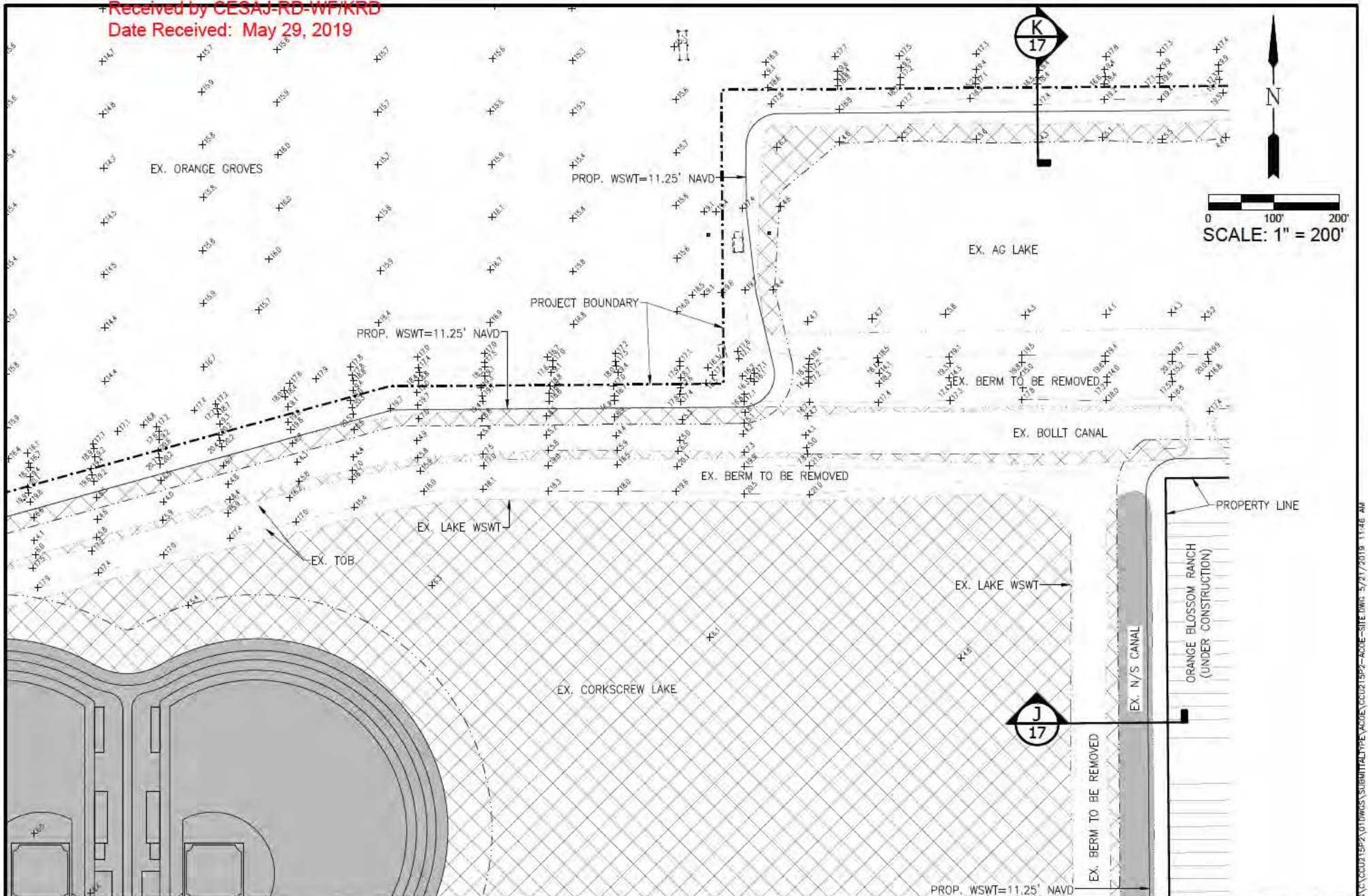
**BIG CORKSCREW ISLAND REGIONAL PARK**  
**PHASE 1 & 2**

## SITE PLAN 6

ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

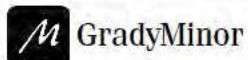
MUNICIPALITY:	COLLIER COUNTY
SUBC/TOWNSHIP/RNG	11, 13, 14/ARS/E/E
DATE:	MAY 2019
SUBMITTAL TYPE	ACOE
SCALE	1" = 200'
JOB CODE:	CCU215P2
SHEET	10 OF 18





# LEGEND WETLAND IMPACT AREAS

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EXCAVATION  
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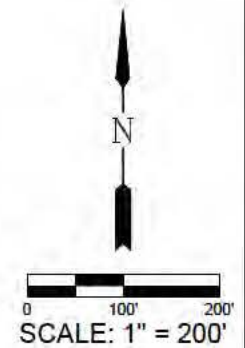
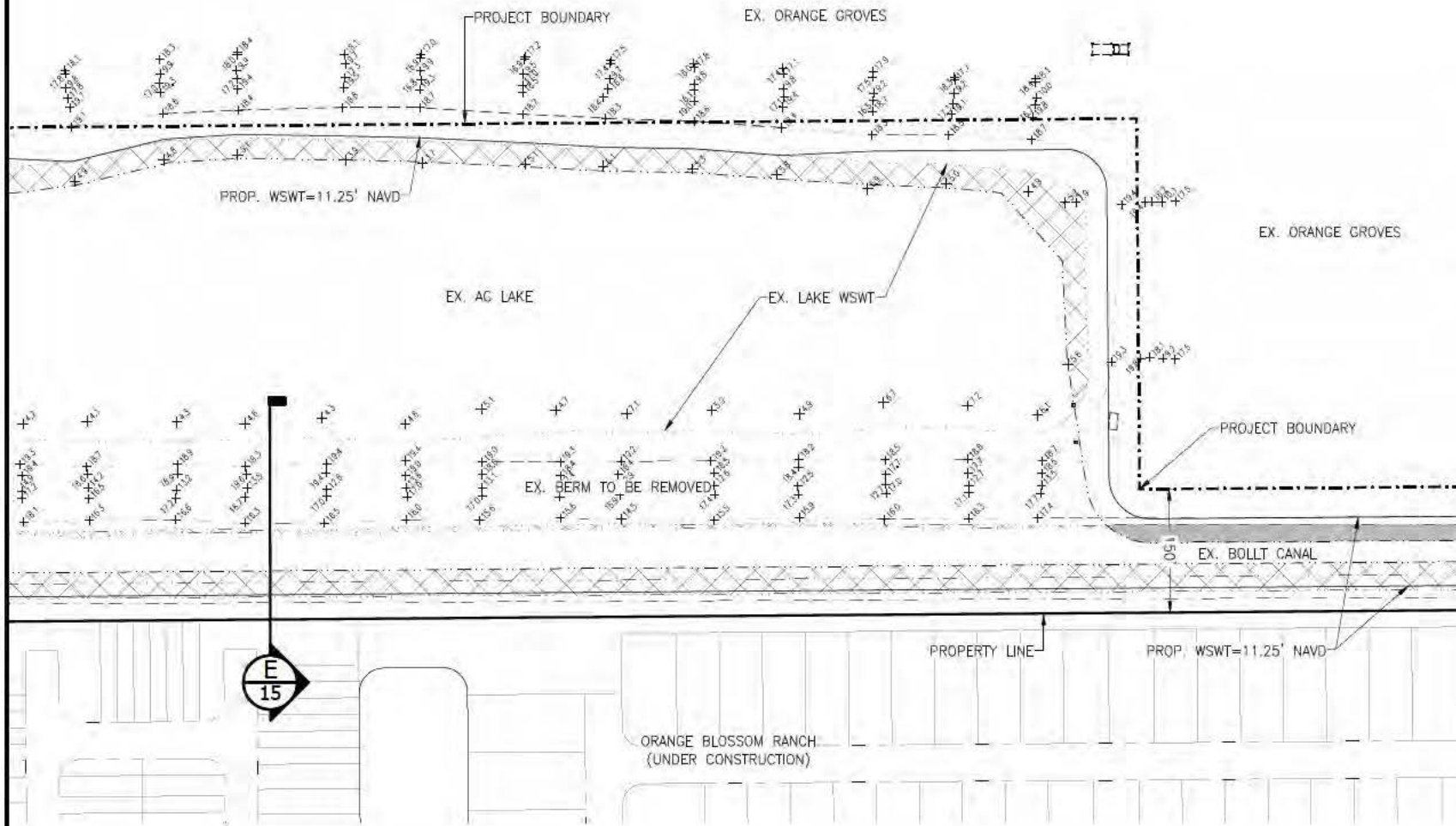
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Bonita Springs, Florida 34134

## BIG CORKSCREW ISLAND REGIONAL PARK PHASE 1 & 2

### SITE PLAN 7

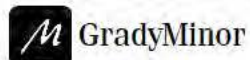
ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODETTIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

MUNICIPALITY:  
COLLIER COUNTY  
SBC/TOWNSHIP/BRG  
11.13.14/005/27E  
DATE:  
MAY 2019  
SUBMITTAL TYPE:  
ACCE  
SCALE:  
1" = 200'  
JOB CODE:  
CC0215P2  
SHEET 11 OF 18



# LEGEND WETLAND IMPACT AREAS

FILL  
EXCAVATION  
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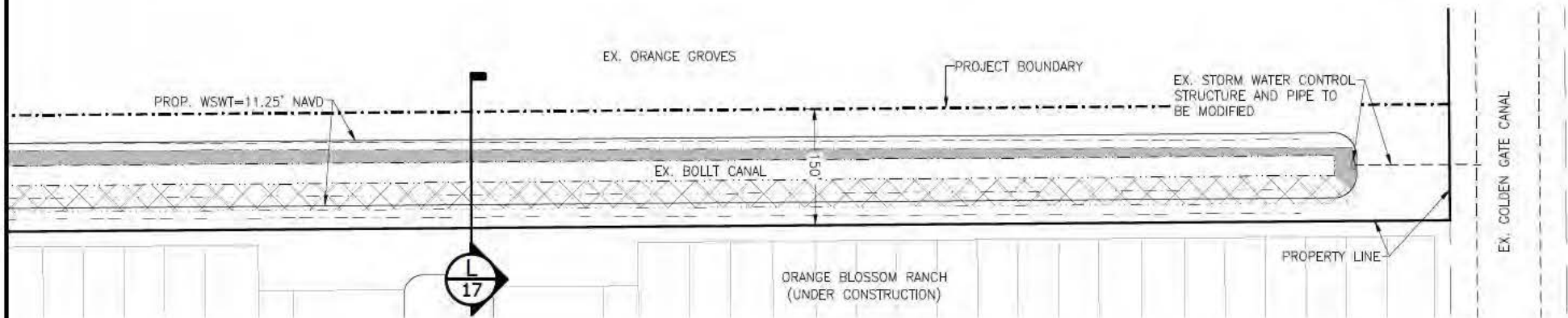
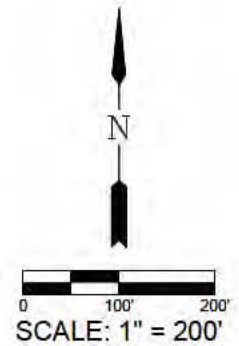
## BIG CORKSCREW ISLAND REGIONAL PARK PHASE 1 & 2

### SITE PLAN 8

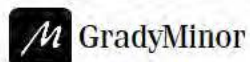
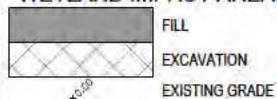
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CONVERSION FACTOR TO NATIONAL GEODEIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

MUNICIPALITY: COLLIER COUNTY  
SBC/TWRRP/BBG  
11.15.14/MS/2/E  
DATE: MAY 2019  
SUBMITAL TYPE: ACCE  
SCALE: 1" = 200'  
JOB CODE: CC0215P2  
SHEET 12 OF 18





**LEGEND**  
**WETLAND IMPACT AREAS**



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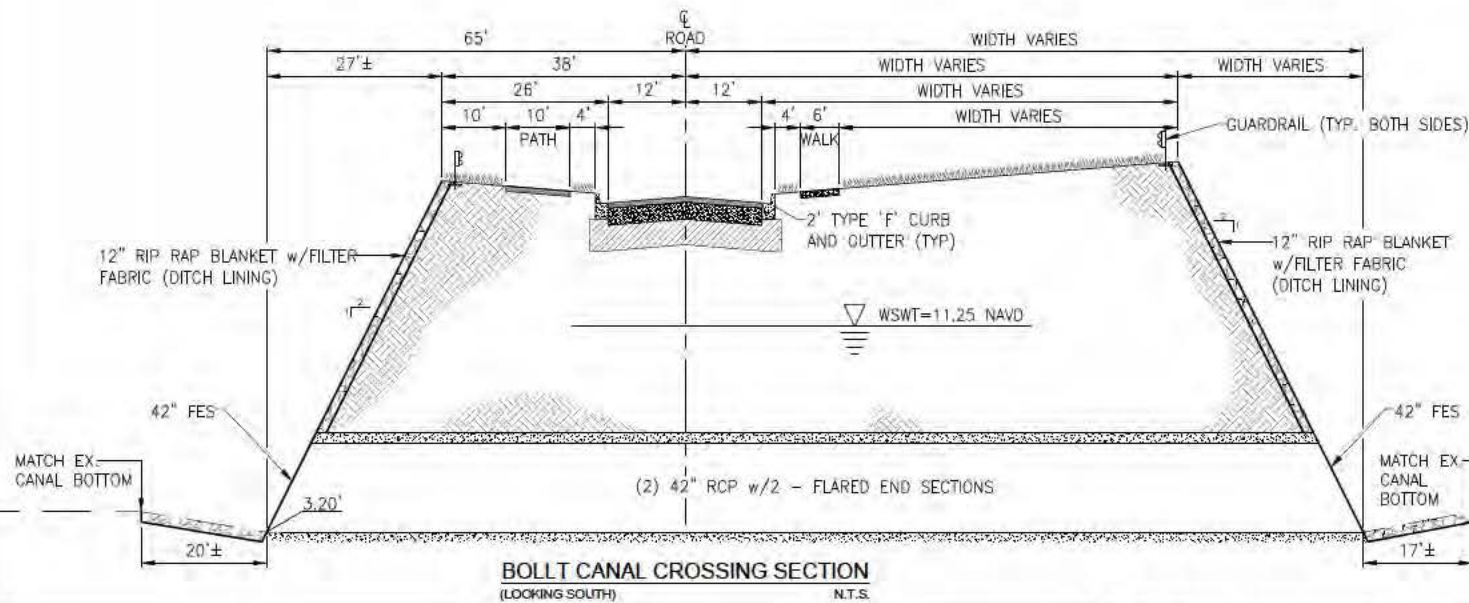
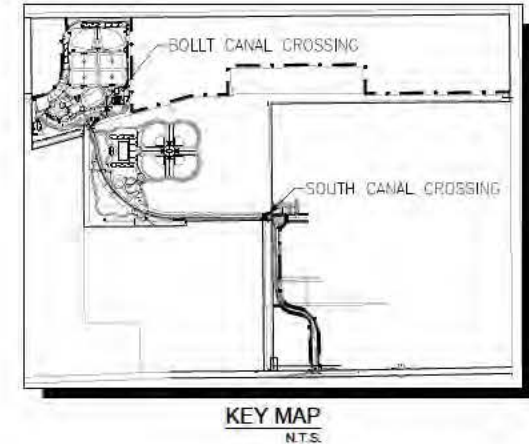
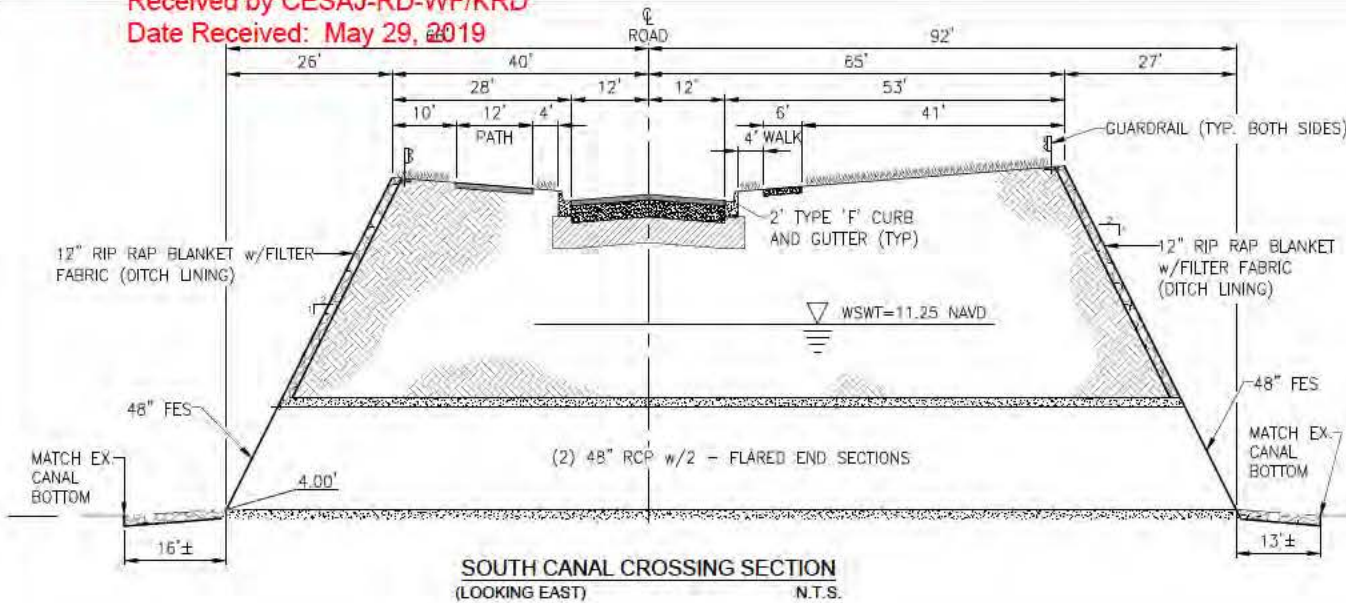
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**BIG CORKSCREW ISLAND REGIONAL PARK**  
**PHASE 1 & 2**

**SITE PLAN 9**

ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODEIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

MUNICIPALITY: COLLIER COUNTY  
SBC/TWRRP/BRG  
1.3.14/MS/2/E  
DATE: MAY 2019  
SUBMITTAL TYPE: ACCE  
SCALE: 1" = 200'  
JOB CODE: CC0215P2  
SHEET 13 OF 18



**LEGEND**



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**BIG CORKSCREW ISLAND REGIONAL PARK**  
**PHASE 1 & 2**

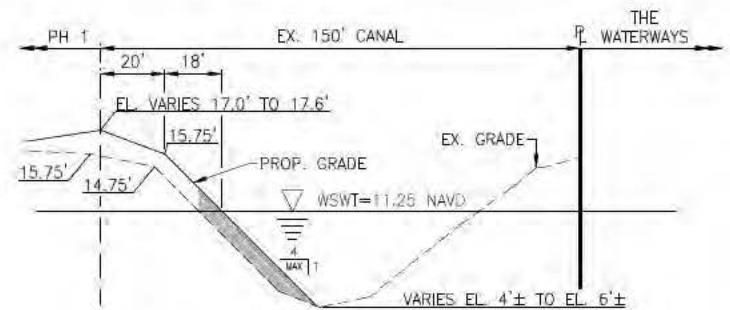
**TYPICAL CROSSING SECTIONS 1**

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CONVERSION FACTOR TO NATIONAL GEODEIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

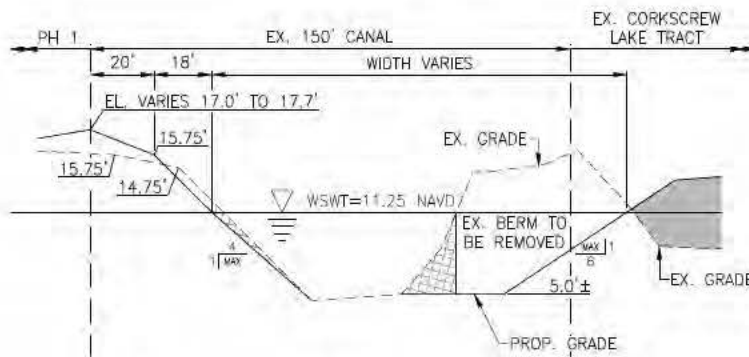
MUNICIPALITY: COLLIER COUNTY  
SHEET: 14 OF 18  
DATE: MAY 2019  
SUBMITTAL TYPE: ACCE  
SCALE: 1" = 30' (HORIZ.)  
JOB CODE: CC0215P2  
SHEET 14 OF 18



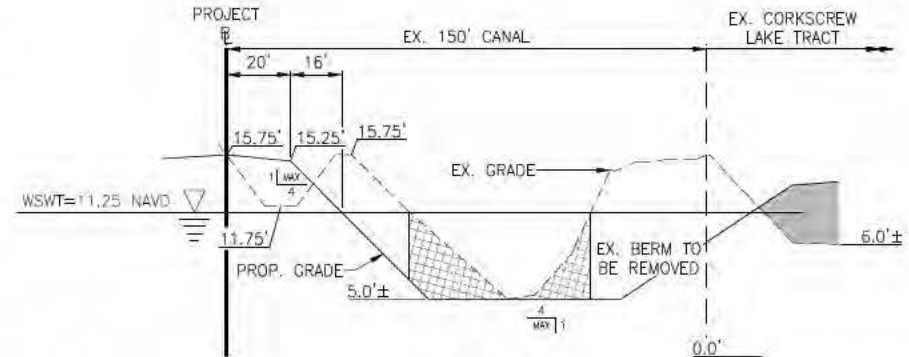
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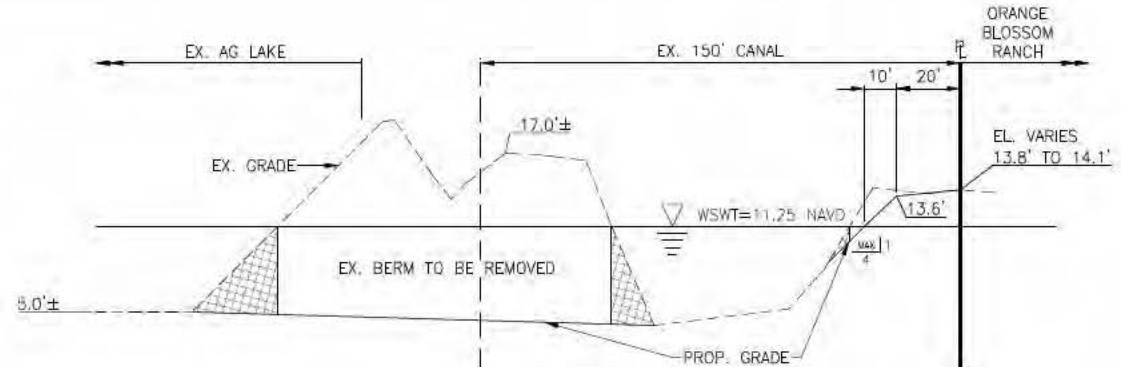
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SECTION C  
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SECTION D  
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SECTION E  
N.T.S.

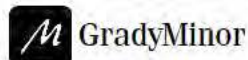
NOTE:

EX. GRADE REPRESENTS PREVIOUSLY PERMITTED OR EX. CONDITIONS AS APPLICABLE.

LEGEND

WETLAND IMPACT AREAS

	FILL WITHIN SURFACE WATERS
	EXCAVATION BELOW WSWT



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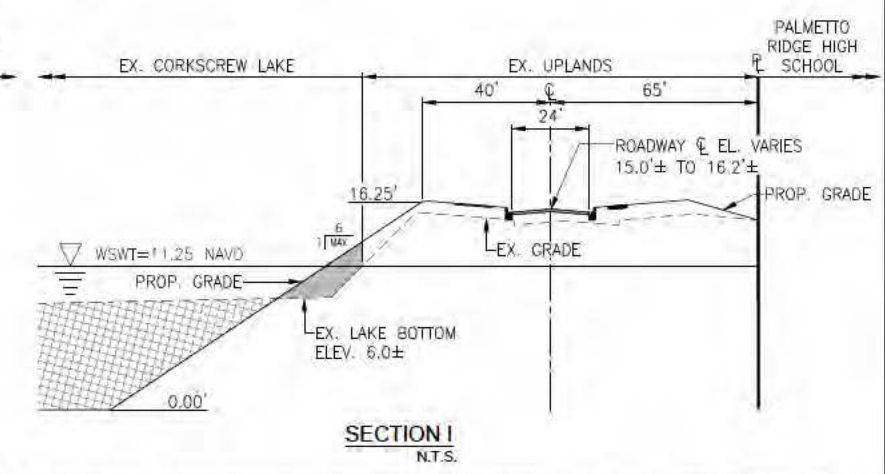
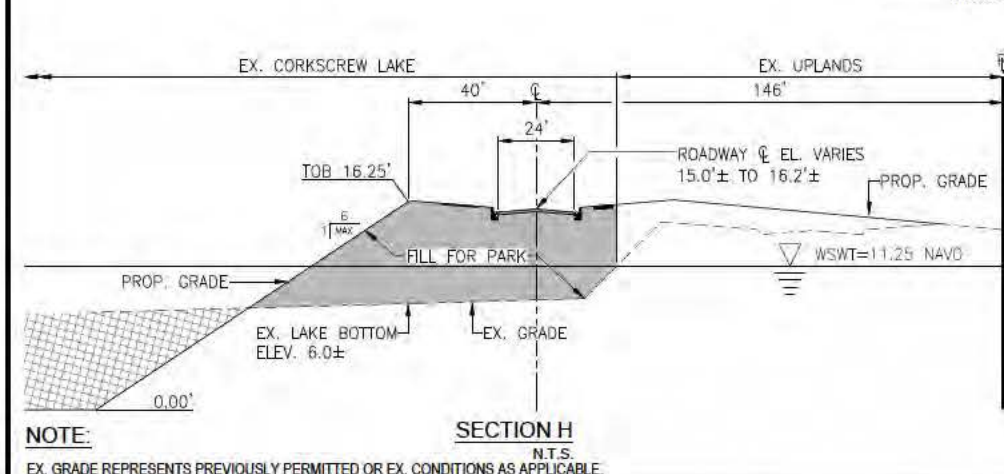
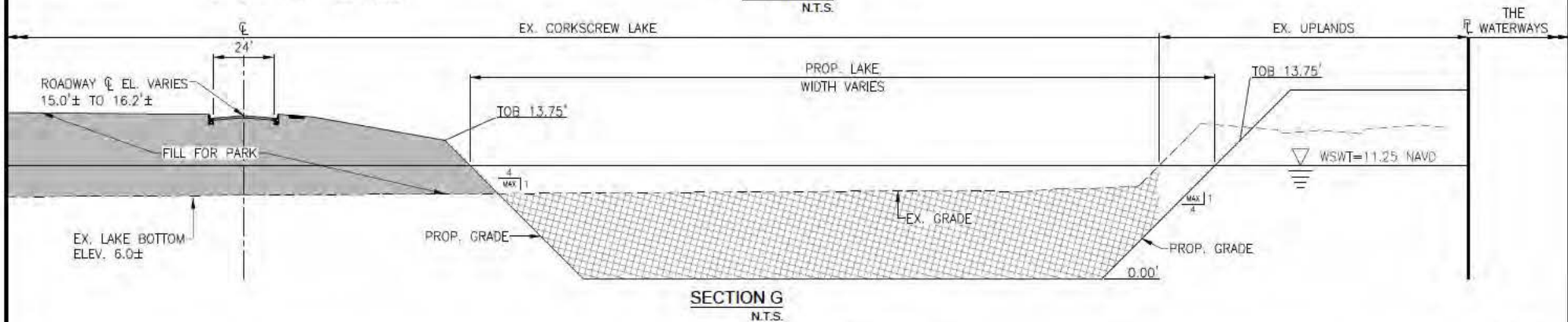
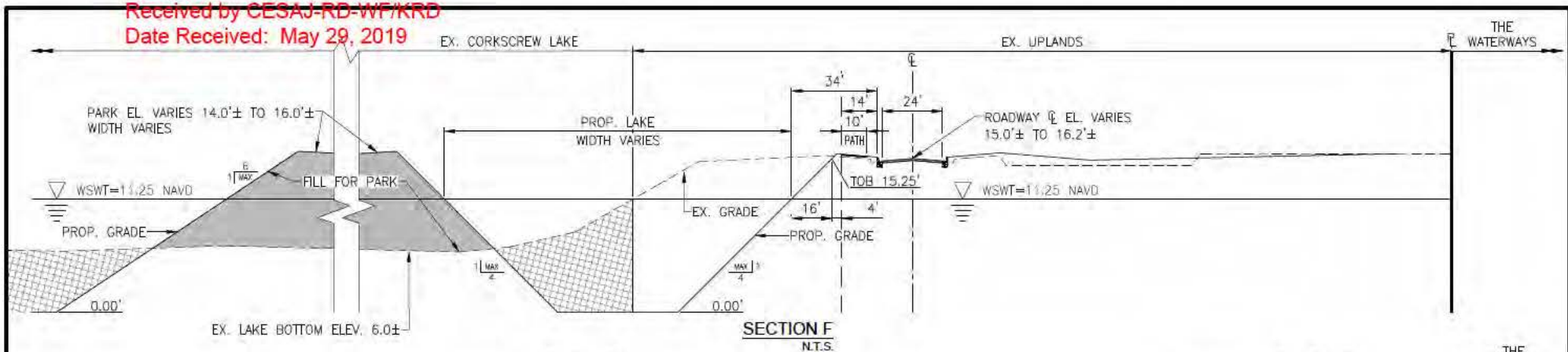
BIG CORKSCREW ISLAND REGIONAL PARK  
PHASE 1 & 2

TYPICAL CROSS SECTIONS 2

ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODEIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

PROJECT: COLLEGE COUNTY  
SHEET: 15 OF 18  
DATE: MAY 2019  
SUBMITTAL TYPE: ACCE  
SCALE: 1" = 40' (HORIZ.)  
JOB CODE: CC0215P2  
SHEET: 15 OF 18





NOTE:  
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#### LEGEND

##### WETLAND IMPACT AREAS

	FILL WITHIN SURFACE WATERS
	EXCAVATION BELOW WSWT



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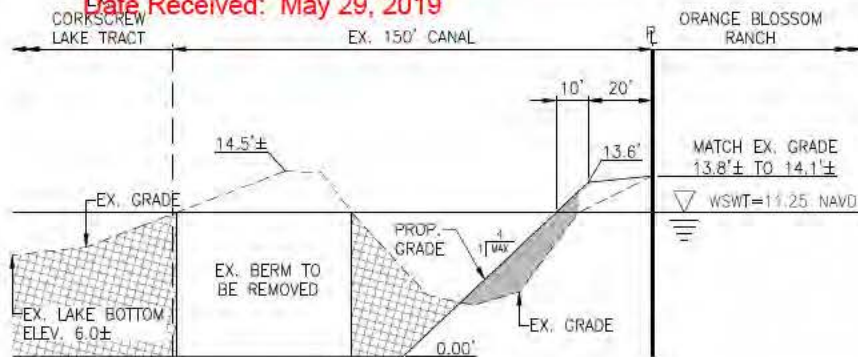
#### BIG CORKSCREW ISLAND REGIONAL PARK PHASE 1 & 2

##### TYPICAL CROSS SECTIONS 3

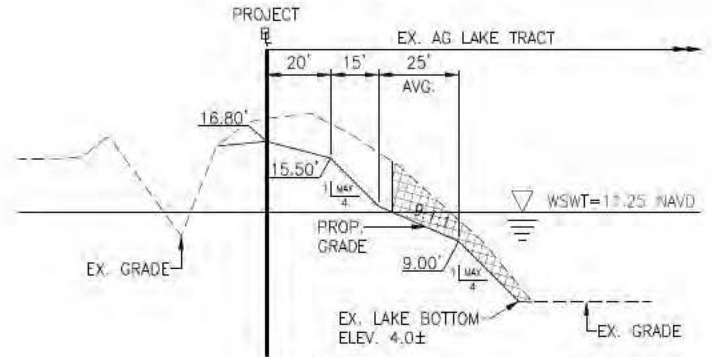
ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODEIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

PROJECT: BIG CORKSCREW ISLAND REGIONAL PARK  
SHEET: 15 OF 18  
DATE: MAY 2019  
SUBMITTAL TYPE: ACCE  
SCALE: 1" = 60' (HORIZ.)  
JOB CODE: CC0215P2

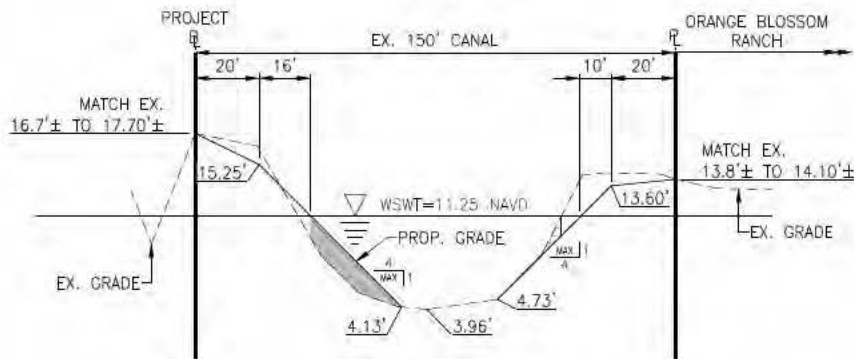




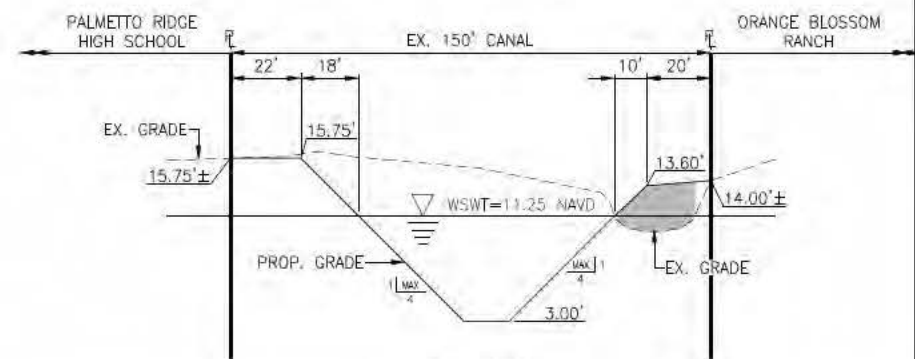
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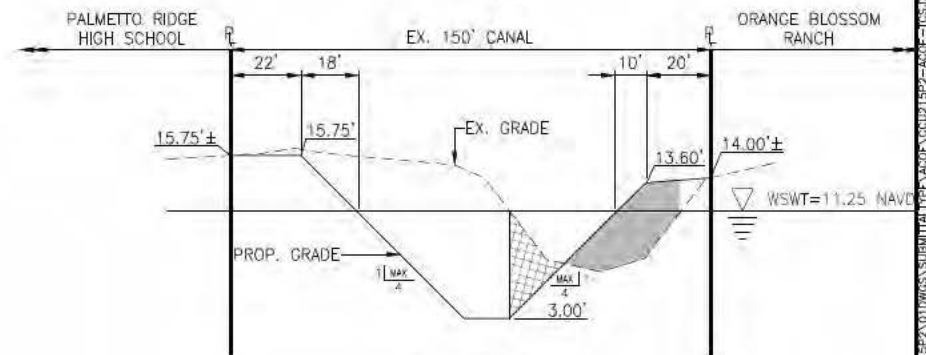
SECTION K  
N.T.S.



SECTION L  
N.T.S.



SECTION M  
N.T.S.



SECTION N  
N.T.S.

**NOTE:**

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**LEGEND**

**WETLAND IMPACT AREAS**



FILL WITHIN SURFACE WATERS

EXCAVATION BELOW WSWT



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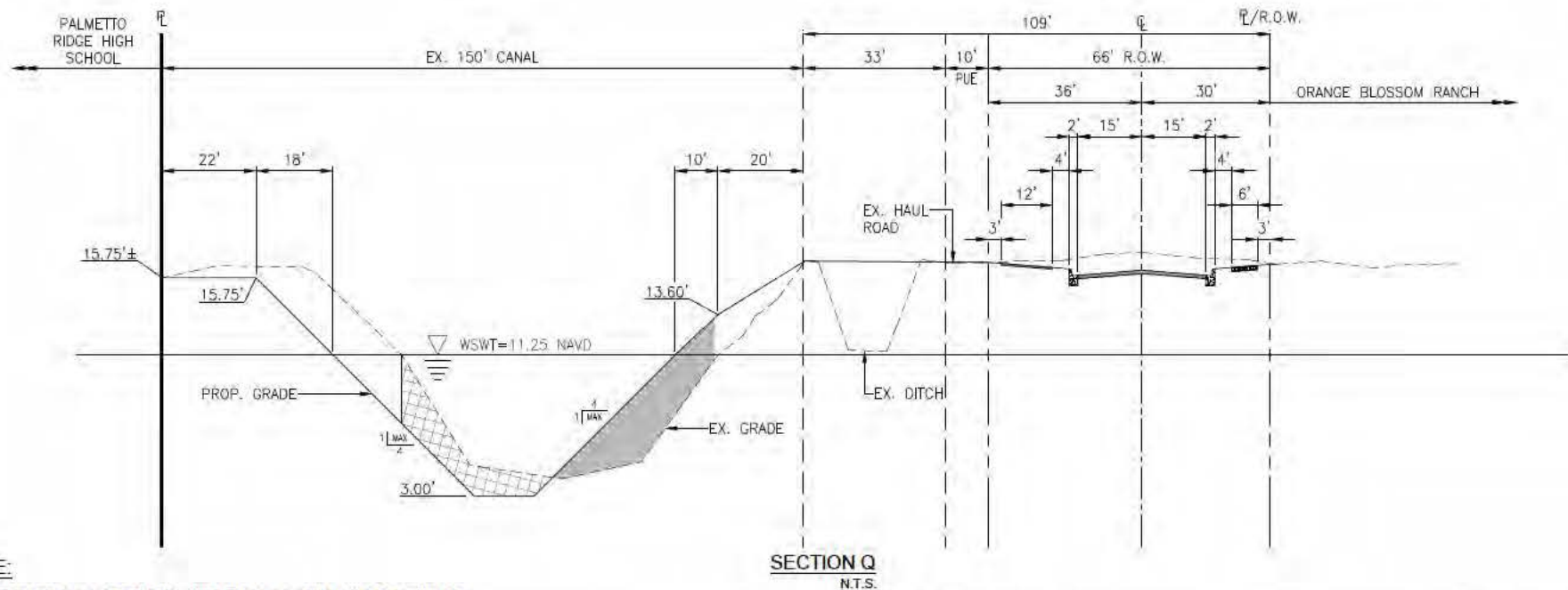
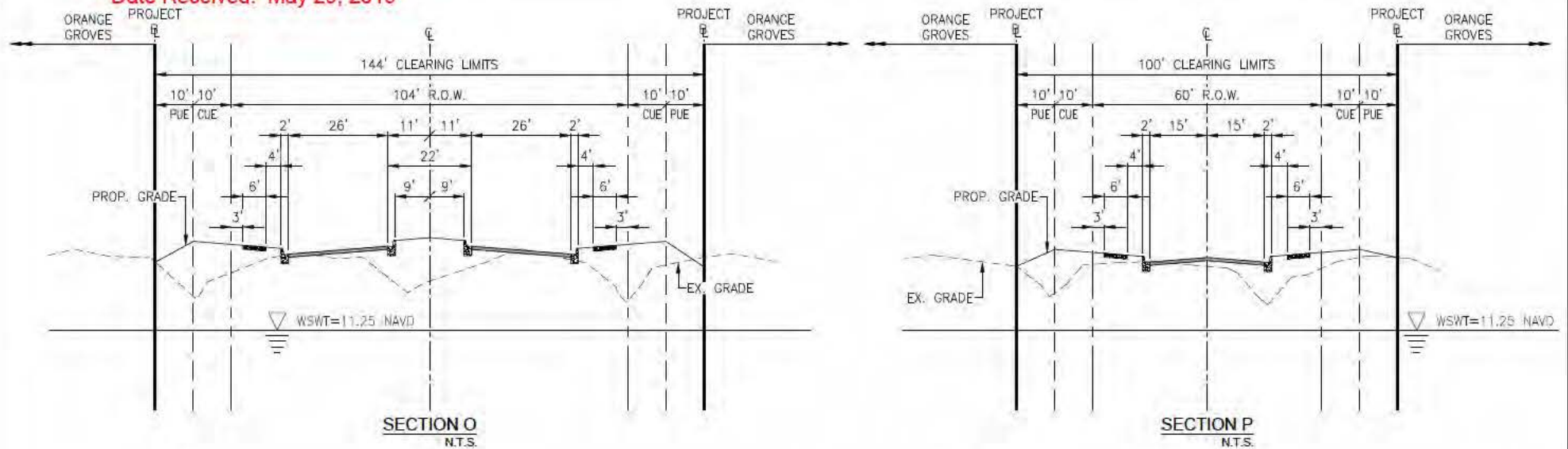
Fort Myers: 239.690.4380

**BIG CORKSCREW ISLAND REGIONAL PARK  
PHASE 1 & 2**

**TYPICAL CROSS SECTIONS 4**

ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
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MUNICIPALITY:  
COLLIER COUNTY  
SBC/TWRRP/BBG  
11.13.14/MS/2/E  
DATE:  
MAY 2019  
SUBMITTAL TYPE  
ACCE  
SCALE:  
1" = 40' (HORIZ.)  
JOB CODE:  
CC0215P2  
SHEET 17 OF 18



**NOTE:**

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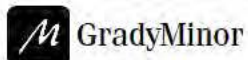
**LEGEND**

**WETLAND IMPACT AREAS**



FILL WITHIN SURFACE WATERS

EXCAVATION BELOW WSWT



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**BIG CORKSCREW ISLAND REGIONAL PARK  
PHASE 1 & 2**

**TYPICAL CROSS SECTIONS 5**

ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD '88)  
CONVERSION FACTOR TO NATIONAL GEODETTIC VERTICAL DATUM 1929 (NGVD '29) IS (+)1.257

MUNICIPALITY: COLLIER COUNTY  
SBC/TWRRP/BRG  
1.3.14/MS/2/E  
DATE: MAY 2019  
SUBMITTAL TYPE: ACCE  
SCALE: 1" = 40' (HORIZ.)  
JOB CODE: CC0215P2  
SHEET 18 OF 18



## ACOE Areas

### Existing FLUCCS Areas Breakdown - May 13, 2019

	FLUCCS Bdy Area	Citrus Grove	Water Area	Lake Bank & Open Space	ROW w/in OBR	Check Sub- Total
Phase 1 Park *	47.83	47.83	0	0	0	47.83
Ag Lake	22.21	0	15.6	6.61	0	22.21
Canal	40.42	0	19.3	21.12	0	40.42
Corkscrew Lake	97.23	0	93.9	3.33	0	97.23
Ph 2 Stovepipe	9.8	9.8	0	0	0	9.8
Ph 2 E-W Parcel	2.98	0	0	2.98	0	2.98
ROW within OBR	7.68	0	0	0	7.68	7.68
<b>TOTAL</b>	<b>228.15</b>	<b>57.63</b>	<b>128.8</b>	<b>34.04</b>	<b>7.68</b>	<b>228.15</b>

\* This is not the Ph1 ACOE area which is 68 acres.

### Proposed Areas Breakdown - May 13, 2019

	Area	Park	Water Area	Lake Bank & Open Space	ROW w/in OBR	Check Sub- Total
Phase 1 Park *	47.83	47.83	0	0		47.83
Phase 2	180.32	60.43	101.96	10.25	7.68	180.32
						0
<b>TOTAL</b>	<b>228.15</b>	<b>108.26</b>	<b>101.96</b>	<b>10.25</b>		<b>228.15</b>

can be included with Park

26.84 ac net decrease in water area

Total of 48.7 ac of fill will be placed in the existing lakes/canals.

Total of 59.6 ac of excavation will be done in the existing lakes/canals.

	Fill	Excavation
Ag Lake (ac)	0	1.72
Corkscrew Lake (ac)	42.4	51.56
Canals (ac)	6.26	6.34
<b>Total</b>	<b>48.66</b>	<b>59.62</b>

Fill 520,000 cy  
EXCAVATION 1,250,000 cy

### Phase 1 ACOE Permit Areas

From Permit	Area	Fill Area	Cut Area
Phase 1 Park =	47.83	0	0
Lake/Canal/Upland =	20.17	7.3	2.8
<b>Total (ac) =</b>	<b>68.0</b>	<b>7.3</b>	<b>2.8</b>

Corkscrew Lake Fill = 5.02  
Canal Fill = 2.25  
**Total (ac) = 7.27 59,840 CY**

Canal Excavation = 0.65  
Ag Lake Excavation = 2.1  
**Total (ac) = 2.75 26,200 CY**