

GENERAL SCOPE OF DESIGN PERMITTING AND CONSTRUCTION WORK FOR LAKES RESTORATION

LAKE 8 & 9 RESTORATION PROJECTS

COLLIER COUNTY, NAPLES, FLORIDA



GREGORY W. CORNING, P.E.
FLORIDA PE LICENSE NO. 79293

PROJECT:
CITY OF NAPLES LAKES RESTORATION

City of Naples Florida

CLIENT:
CITY OF NAPLES STREETS & STORMWATER DEPARTMENT
295 RIVERSIDE DRIVE
NAPLES, FL 34102

WSP PROJECT NO:
600843.03

30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 22, 2023

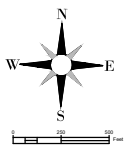
SHEET TITLE:
COVER

SHEET NUMBER:	REV. #
G-001	
SHEET 01 OF 19 SHEETS	

LOCATED IN
SECTION 4 TOWNSHIP 50 SOUTH, RANGE 25 EAST
COLLIER COUNTY, NAPLES, FLORIDA



VICINITY MAP



LEGEND

APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.36 ACRES)

APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.84 ACRES)

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN CHANGED IN SIZE BY REPRODUCTION. THE PLANS SHOULD BE PLOTTED AT 22" X 34" TO OBTAIN SCALED DATA.

GOVERNING SPECIFICATIONS:
THE PROJECT DEVELOPMENT CODE;
CITY OF NAPLES;
COLLIER COUNTY;
FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT);
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP);
SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD);
UNITED STATES ARMY CORPS OF ENGINEERS (USACE);
IN THE EVENT OF A CONFLICT, THE MOST RESTRICTIVE APPLIES.

MAYOR
TERESA HEITMANN

VICE MAYOR
MICHAEL McCABE

CITY COUNCIL
TERRY HUTCHISON
BETH PETRUNOFF
TED BLANKENSHIP
PAUL PERRY
RAYMOND CHRISTMAN

CITY MANAGER
JAY BOODHESHWAR

STREETS AND STORMWATER DIRECTOR
BOB MIDDLETON

PLANS PREPARED FOR:
CITY OF NAPLES
STREETS AND STORMWATER DEPARTMENT
295 RIVERSIDE DRIVE NAPLES, FLORIDA 34102
PHONE: 239-213-5016 FAX: 239-213-5010

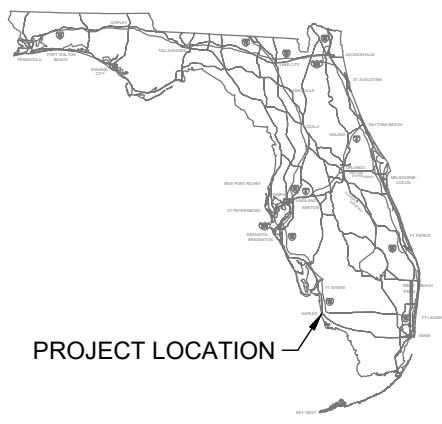
PLANS PREPARED BY:
WSP ENVIRONMENT AND INFRASTRUCTURE, INC.
5845 NW 158TH ST
MIAMI LAKES, FLORIDA 33014
TEL: (305) 826-5588
E-MAIL: greg.corning@wsp.com
ENGINEER OF RECORD: GREGORY CORNING, P.E (FL 79293)

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SUNSHINE STATE ONE CALL OF FLORIDA
CALL BEFORE YOU DIG
1-800-432-4770

- CALL 1-800-432-4770 TWO FULL BUSINESS DAYS (BUT NOT MORE THAN FIVE) BEFORE DIGGING TO FIND OUT WHERE BURIED FACILITIES (ELECTRIC, GAS, TELECOMMUNICATIONS, CABLE WATER, SEWER) ARE LOCATED.
- WAIT THE REQUIRED TIME FOR THE UTILITIES ON SITE TO BE LOCATED AND MARKED WITH COLOR-CODED PAINT, FLAGS OR STAKES AND CONFIRM THAT THE SITE HAS BEEN LOCATED.
- RESPECT AND PROTECT THE MARKS DURING THE PROJECT, IF MARKS ARE DESTROYED, REQUEST A NEW LOCATE TICKET.
- DIG SAFELY, USING EXTREME CAUTION WHEN DIGGING WITHIN 24 INCHES ON EITHER SIDE OF THE MARKS TO AVOID HITTING THE BURIED UTILITY LINES.

NOTE:
THESE PLANS DEPICT 30% LEVEL OF DETAIL WHICH INCLUDES EXISTING CONDITIONS, DATA COLLECTION, AND LAYOUT OF PROPOSED FEATURES. DETAILED CROSS SECTIONS, VOLUMETRIC ANALYSIS, AND DESIGN DETAILS WILL BE PREPARED DURING THE 60% DESIGN SUBMITTAL..



PROJECT LOCATION

PROJECT NUMBER: 600843.03 CITY: TAMPA
F:\PROJECTS-C3D\600843.03 North & South Lake Restoration\2023\Feb_2023\600843.03_N & S Lake Restoration_Cover.dwg LAYOUT: G-001
SAVED: 3/22/2023 10:38 AM PLOTTED: 3/23/2023 4:32 PM DRAWN BY: VIVES, MARTIN

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NOTES:

A. GENERAL

1. PROJECT LOCATIONS:
 - 1.1. LAKE 8 - LAT: 26° 9'55.83"N LONG: 81°47'45.30"W
 - 1.2. LAKE 9 - LAT: 26° 8'22.48"N LONG: 81°48'0.50"W
2. DESCRIPTION: THIS PROJECT CONSISTS OF SITE IMPROVEMENTS, INCLUDING REMOVAL OF INVASIVE EXOTIC VEGETATION, HYDRAULIC AND MECHANICAL DREDGING OF ORGANIC MATERIAL AND SAND FROM THE BOTTOM OF THE LAKES, CONTOURING LAKE BOTTOM AND CONSTRUCTING LITTORAL SHELVES, AND PUBLIC OUTREACH AMENITIES.
3. THE TYPES OF SOIL DISTURBANCE ACTIVITIES INCLUDE: HYDRAULIC DREDGING, GRADING, EXCAVATING AND COMPACTING.
4. THE CONTRACTOR SHALL COMPLETE THE LAKES IN THE FOLLOWING ORDER:
 - 4.1. LAKE 8
 - 4.2. LAKE 9
5. SEQUENCE OF MAJOR ACTIVITIES:
 - (1) INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND MAINTAIN THROUGHOUT PROJECT.
 - (2) CONSTRUCT HYDRAULIC DREDGING AND DEWATERING STAGING AREAS
 - (3) DREDGE ORGANIC MATERIAL, DEWATER, AND HAUL OFFSITE.
 - (4) CONSTRUCT FEATURES ACCORDING TO ENGINEERING DESIGN PLANS AND TECHNICAL SPECIFICATIONS.
 - (5) STABILIZE AREAS AS NEEDED.
 - (6) OBTAIN FINAL APPROVAL, REMOVE EROSION AND SEDIMENTATION CONTROLS AND STABILIZE ANY AREA DISTURBED BY THEIR REMOVAL.
6. AREA ESTIMATES:
 - 6.1. LAKE 8 AND CITY ROADS PLATTED BOUNDARY = 2.36 ACRES
 - 6.2. LAKE 9 AND CITY ROADS PLATTED BOUNDARY = 4.84 ACRES
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP, OBTAIN, AND IMPLEMENT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE EPA NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES, THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES AND ALL OTHER FEDERAL, STATE AND LOCAL REQUIREMENTS.
8. THE CONTRACTOR SHALL SUBMIT A ROW PERMIT APPLICATION THROUGH THE CITY OF NAPLES STREETS AND TRAFFIC DIVISION SHOWING MAINTENANCE OF TRAFFIC AND ANY ROAD OR LANE CLOSURES.
9. THE CONTRACTOR SHALL USE CAUTION TO PROTECT WILDLIFE AND ECOSYSTEM THROUGH THE PROJECT DURATION.
10. THE CITY OF NAPLES, THE ENGINEER OF RECORD, THE CONTRACTOR, AND SFWMD SHALL HAVE A PRE-CONSTRUCTION MEETING TO DISCUSS THE COMPLEXITY AND POTENTIAL PUBLIC CONCERNS WITH THE PROJECT.
11. COORDINATES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM OF 1983, 2011 ADJUSTMENT, PROJECTED IN THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE 901, US SURVEY FEET, AND ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED ON GLOBAL POSITIONING SYSTEM (GPS) MEASUREMENTS TO THE NATIONAL GEODETIC SURVEY (NGS) CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) NETWORK. THE POSITIONS OF THE PROJECT CONTROL STATIONS SHOWN HEREON HAVE A CALCULATED POSITIONAL ACCURACY OF 2 CM OR BETTER BASED UPON THE NGS OPUS ADJUSTMENT REPORT.

B. TEMPORARY EROSION AND SEDIMENT CONTROL

1. CONTRACTOR SHALL INSTALL PRIOR TO AND MAINTAIN DURING CONSTRUCTION ALL SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLANS.
2. EROSION CONTROL MEASURES AND THE OUTFALLS WILL BE INSPECTED AT LEAST DAILY, AFTER EACH RAIN AND REPAIRED BY THE GENERAL CONTRACTOR IF DAMAGED. CLEAN OUT OF SEDIMENT CONTROL STRUCTURES WILL BE PERFORMED BY THE CONTRACTOR WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF (1/2) FULL FOR SILT FENCE, TURBIDITY BARRIERS, AND INLET SEDIMENT TRAPS.
3. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING SEDIMENT AND EROSION CONTROL MEASURES TO PROVIDE OPTIMUM SEDIMENT AND EROSION CONTROL. SEDIMENT AND EROSION CONTROL MEASURES SHALL COMPLY WITH CHAPTER 6 OF THE FLORIDA DEVELOPMENT MANUAL.
4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION OF CITY OF NAPLES DESIGNATED REPRESENTATIVE.
5. THE CONTRACTOR SHALL PROTECT ALL EXISTING DITCHES, WETLAND VEGETATION, STORM DRAIN PIPES, AND INLETS, IN THE VICINITY OF WORK TO BE PERFORMED, FROM DAMAGE OR SILTATION, WHETHER OR NOT SPECIFICALLY IDENTIFIED IN THE PLANS.
6. EROSION CONTROL MEASURES DESCRIBED SHALL BE MAINTAINED UNTIL PERMANENT DRAINAGE FACILITIES HAVE BEEN RECONSTRUCTED AND VEGETATION ON PLANTED SLOPES IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE EROSION DETERRENT.
7. CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD INTO PUBLIC STREETS. IF TRACKING OR FLOW OF MUD OCCURS, CONTRACTOR SHALL CONSTRUCT A SOIL TRACKING PREVENTION DEVICE IN ACCORDANCE WITH FDOT DESIGN STANDARD 2010, INDEX NO. 106.
8. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON ESTABLISHMENT OF PERMANENT VEGETATION OR PROJECT COMPLETION, AS DIRECTED BY THE CITY'S REPRESENTATIVE.
9. SILT FENCE AND TURBIDITY BARRIERS SHALL MEET THE REQUIREMENTS OF FDOT DESIGN STANDARDS 2017-18, INDEX NO. 104.
10. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTROL OF EROSION WITHIN THE WORK SITE AND PREVENTION OF SEDIMENTATION OF ANY ADJACENT OR DOWNSTREAM WATERWAYS. THE EROSION AND SEDIMENTATION CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR'S METHODS OF OPERATION MAY DICTATE ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND INSTALLING ADDITIONAL MEASURES.
11. ANY UNCOVERED DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 20 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

C. DEWATERING

1. DEWATERING ACTIVITIES SHALL ADHERE TO THE SFWMD PERMIT.
2. SEE TECHNICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.

D. EXISTING INFRASTRUCTURE

1. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING EXISTING INFRASTRUCTURE THAT IS IMPACTED DURING CONSTRUCTION TO MATCH EXISTING CONDITIONS.

E. EXISTING UTILITIES

1. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL PERTINENT UTILITIES COMPANIES 48 HOURS PRIOR TO DIGGING FOR LOCATION OF UNDERGROUND UTILITY LINES.
2. IN THE EVENT THE UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL RESTORE TO MATCH EXISTING CONDITIONS AND NOTIFY THE PERTINENT UTILITY COMPANY IMMEDIATELY.



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 Suite 200
 Tampa, FL 33602
 Phone: 1.813.289.0750
 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
CITY OF NAPLES
LAKES RESTORATION



CLIENT:
CITY OF NAPLES
STREETS & STORMWATER
DEPARTMENT
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
 600843.03

REVISIONS			
NO.	DATE	BY	APPROVED

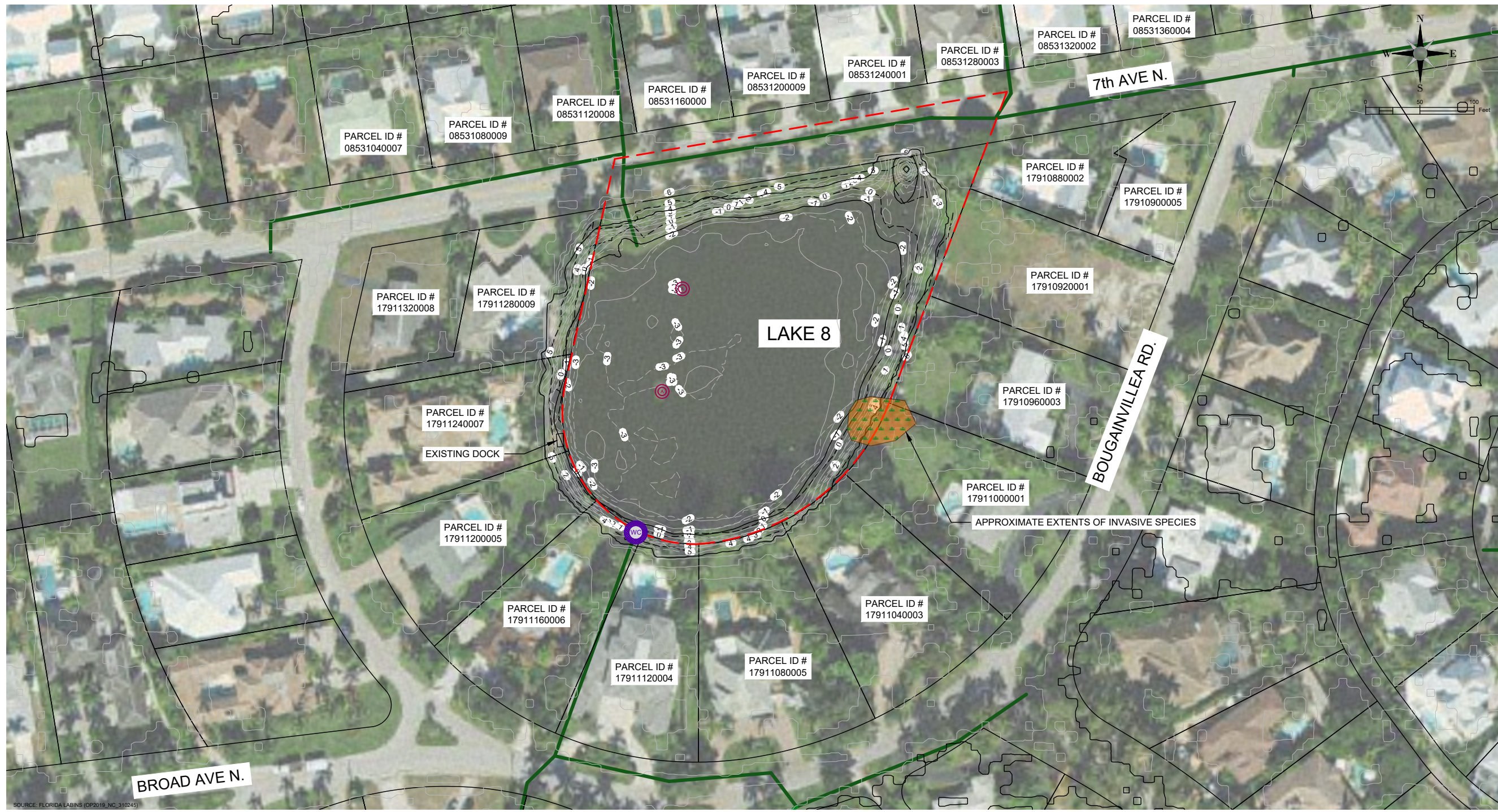
DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	February 21, 2023

SHEET TITLE:
GENERAL NOTES

SHEET NUMBER:	REV. #
G-002	
SHEET 02 OF 19 SHEETS	

30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

PROJECT NUMBER: 600843.03 CITY: TAMPA
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1 EXISTING SITE PLAN - LAKE 8
 Scale: 1"=50'

- LEGEND**
- s --- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - [Red dashed line] APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.56 ACRES)
 - [Black line] COLLIER COUNTY PARCEL BOUNDARY
 - [Purple circle with 'WC'] EXISTING WATER CONTROL STRUCTURE
 - [Red circle with 'A'] EXISTING AERATOR
 - [Green starburst] INVASIVE SPECIES (TO BE REMOVED)
 - [Green hatched box] RAIN GARDEN SWALE

- NOTES:**
1. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 2. THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKE 8 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED ???? YEAR,
 3. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY. IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
 4. THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.



SITE MAP LOCATION

USA ENVIRONMENT & INFRASTRUCTURE, INC.
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 Tampa, FL 33602
 Phone: 1.813.289.0750
 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 STREETS & STORMWATER
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
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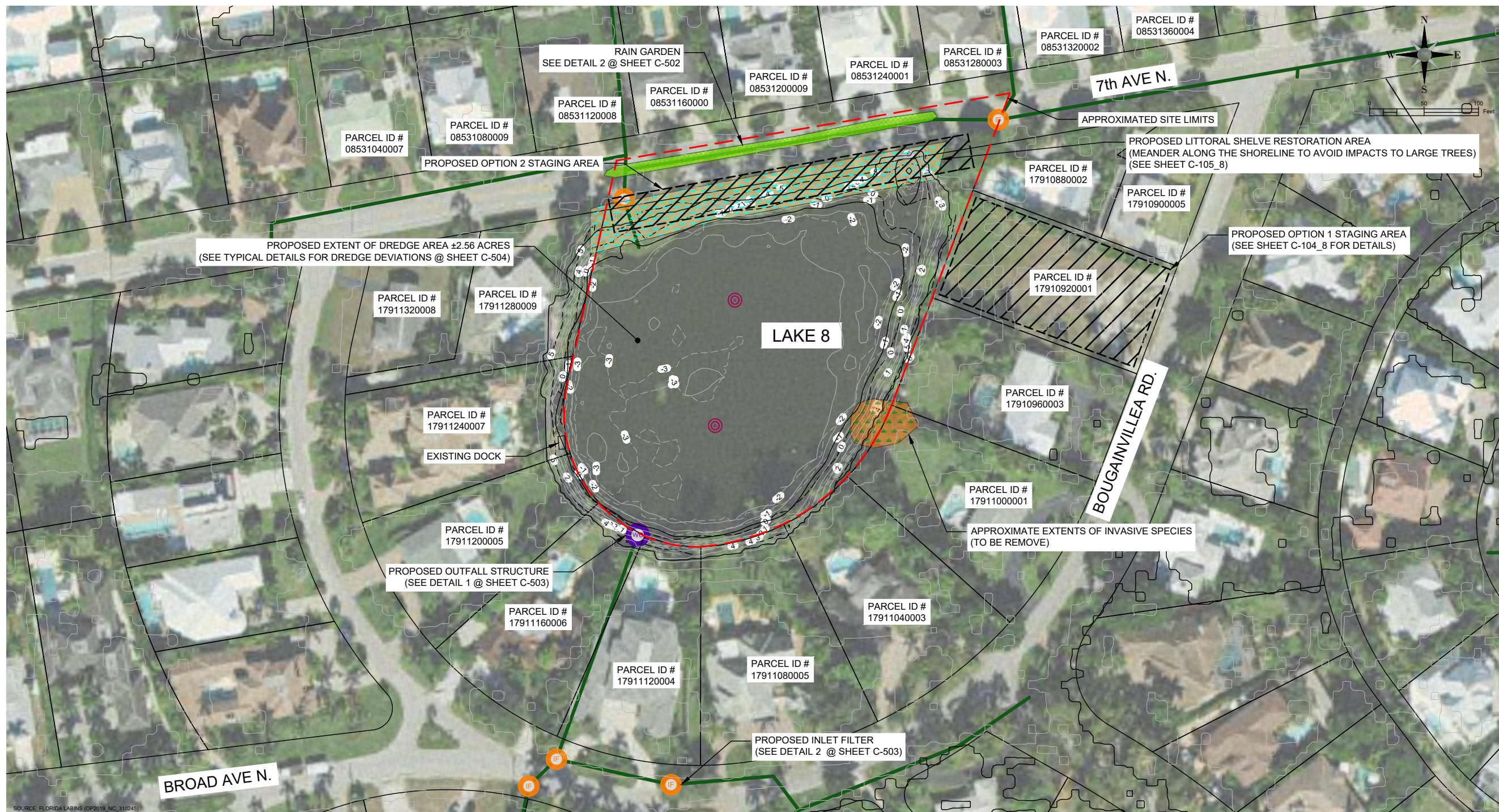
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DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**EXISTING SITE PLAN
 LAKE 8**

SHEET NUMBER:	REV. #
C-101_8	
SHEET 03 OF 19 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
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1 PROPOSED SITE PLAN - LAKE 8
 Scale: 1"=50'

- LEGEND**
- s --- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.56 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - PROPOSED AERATOR

- INVASIVE SPECIES (TO BE REMOVED)
- LITTORAL SHELVE GRADING & PLANTING
- RAIN GARDEN SWALE
- PROPOSED STAGING AREA

- NOTES:**
1. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 2. THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKES 8 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED ???? YEAR,
 3. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY. IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
 4. THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.



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PROJECT:
**CITY OF NAPLES
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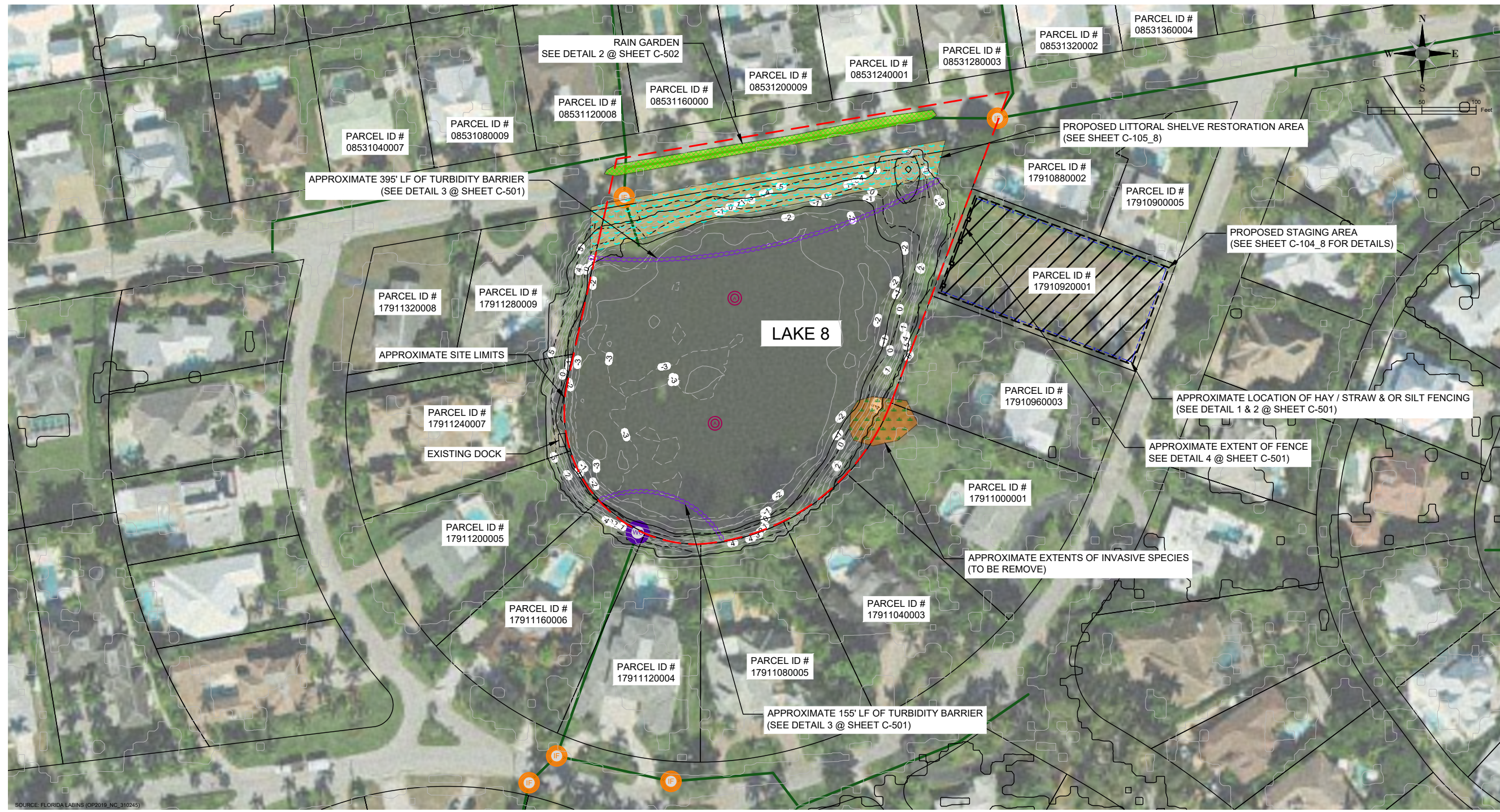
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DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**PROPOSED SITE
 PLAN LAKE 8**

SHEET NUMBER:	REV. #
C-102_8	
SHEET 5 OF 19 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
 F:\PROJECTS\C3D\600843.03 North & South Lake Restoration\2023\Feb_2023\600843.03_N & S Lake Restoration_ESCP_8.dwg LAYOUT: C-103_8 SAVED: 3/23/2023 3:34 PM PLOTSTYLETABLE: CIVIL-MASTER.CTB PLOTTED: 3/23/2023 4:33 PM DRAWN BY: VIVES, MARTIN



1 PROPOSED EROSION AND SEDIMENT CONTROL PLAN - LAKE 8
 Scale: 1"=50'

- LEGEND**
- s --- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.36 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - PROPOSED AERATOR
 - INVASIVE SPECIES (TO BE REMOVED)
 - LITTORAL SHELVE GRADING & PLANTING
 - RAIN GARDEN SWALE
 - FLOATING TURBIDITY BARRIER
 - TEMPORARY FENCING
 - TEMPORARY HAY / STRAW / SILT FENCING

- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ADDITIONAL EROSION SEDIMENT CONTROL MEASURES AS NEEDED TO PREVENT AND MINIMIZE SEDIMENT TRANSFER FROM THE PROJECT SITE. THESE MEASURES INCLUDE BUT NOT LIMITED TO SILT FENCE, FLOATING TURBIDITY CURTAIN AND TRUCK CLEANING STATIONS.
 - CONTRACTOR SHALL ENSURE THE SITE IS KEPT IN GOOD CLEAN WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT INCLUDING PICKING UP/ DISPOSING OF TRASH, SWEEPING ROADWAYS AND CLEANING STORMWATER INLETS, AS NEEDED.



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**CITY OF NAPLES
 LAKES RESTORATION**

City of *Naples* Florida

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 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

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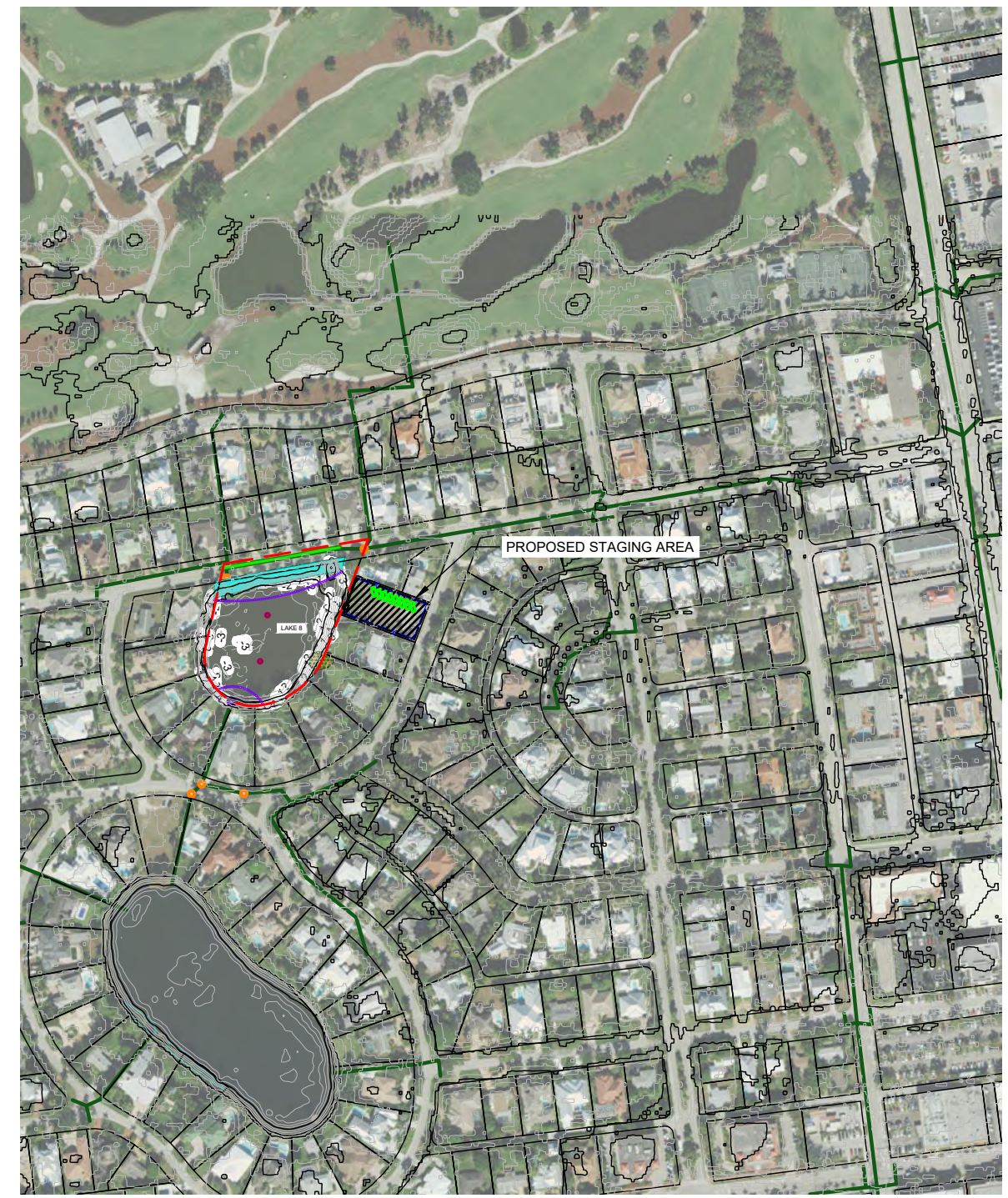
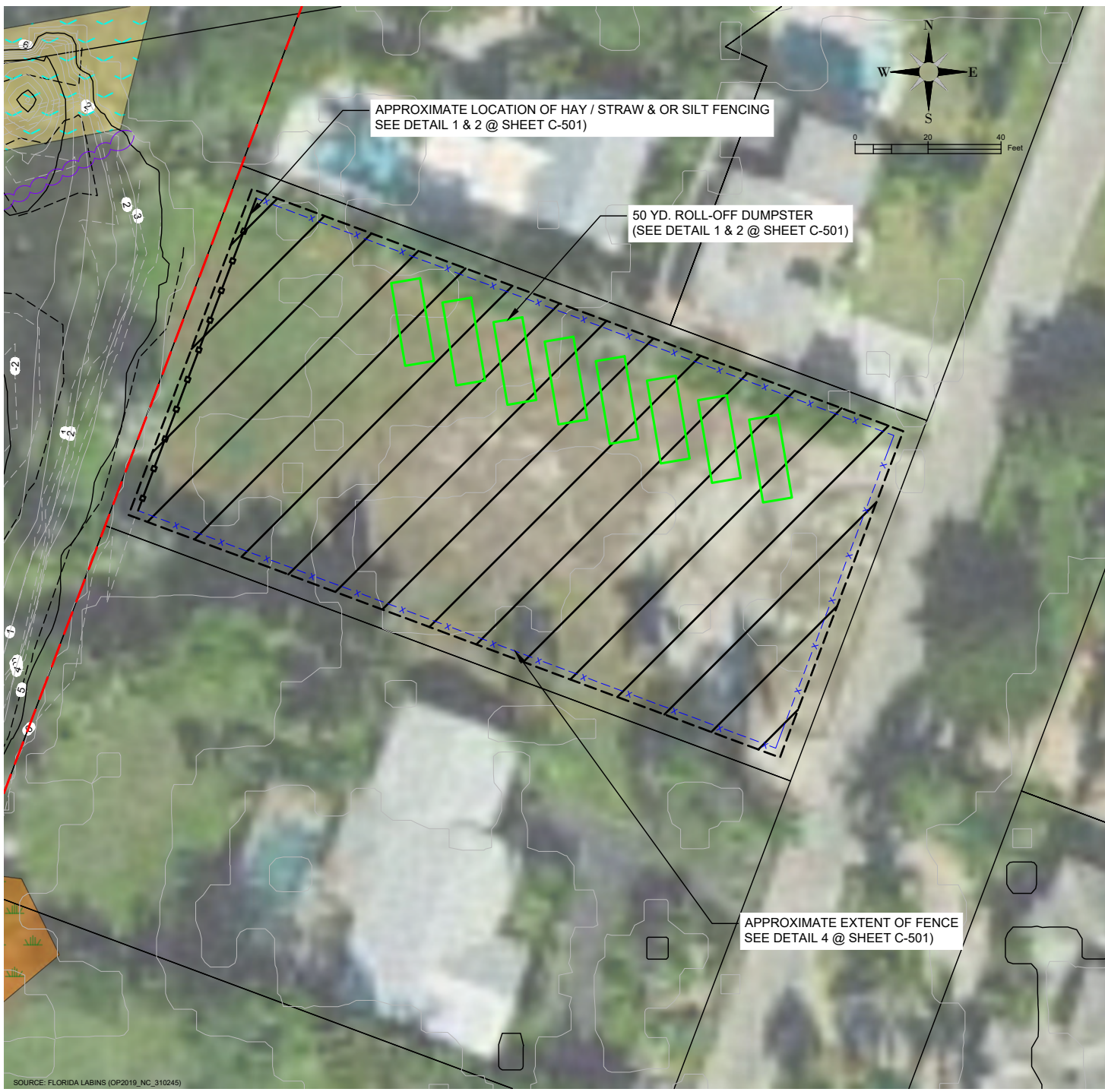
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DRAWN BY:	M. VIVES
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APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**EROSION &
 SEDIMENT
 CONTROL PLAN
 LAKE 8**

SHEET NUMBER:	REV. #
C-103_8	
SHEET 5 OF 19 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
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APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**DREDGE MATERIAL
 MANAGEMENT PLAN
 LAKE 8**

SHEET NUMBER:	REV. #
C-104_8	
SHEET --- OF 19 SHEETS	



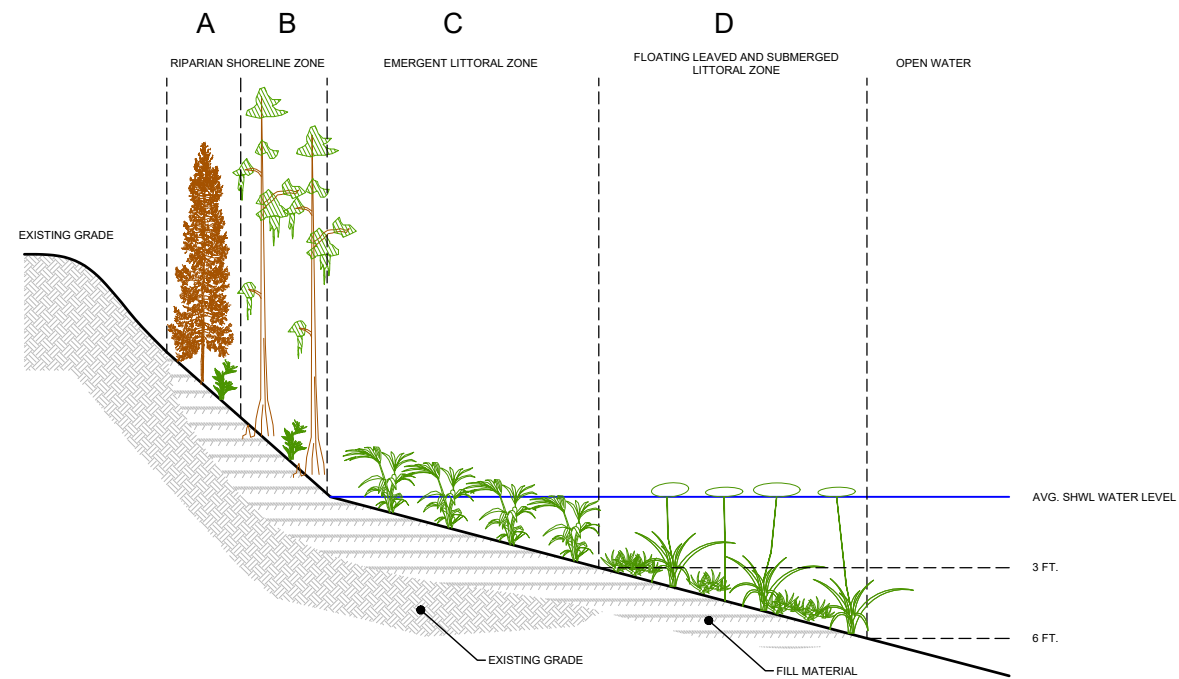
SITE MAP LOCATION

1 PROPOSED MAINTENANCE OF TRAFFIC CONTROL PLAN - LAKE 8

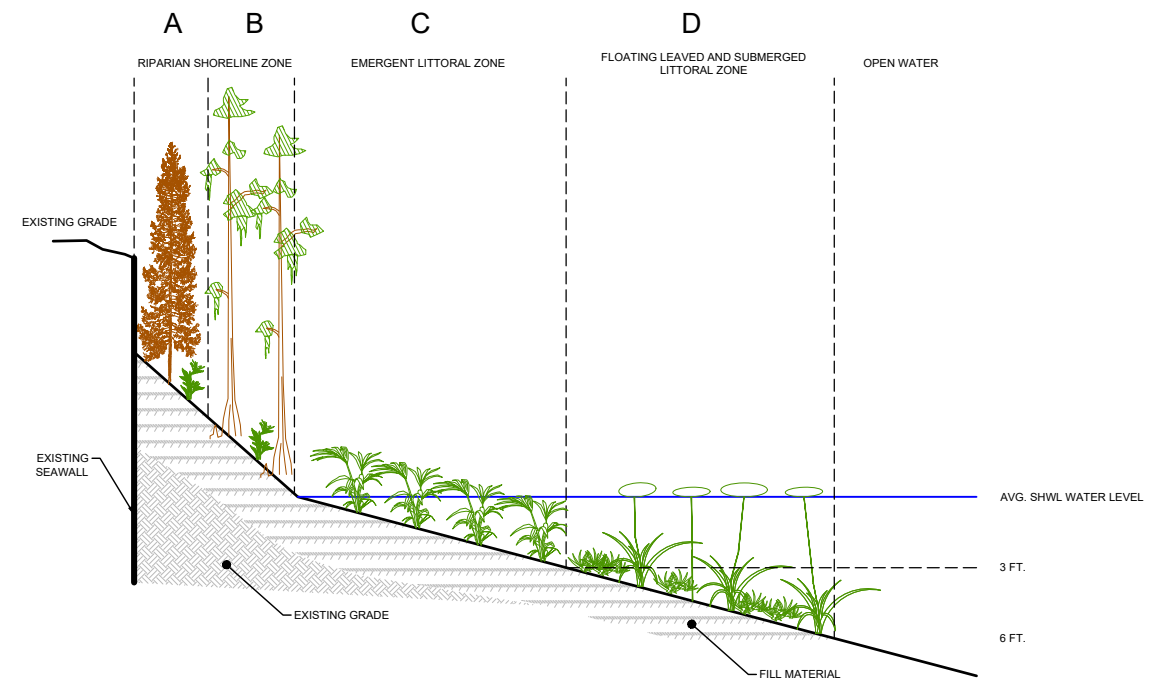
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 - APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.36 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - PROPOSED AERATOR
 - INVASIVE SPECIES (TO BE REMOVED)
 - LITTORAL SHELF GRADING & PLANTING
 - RAIN GARDEN SWALE
 - FLOATING TURBIDITY BARRIER
 - TEMPORARY FENCING
 - TEMPORARY HAY / STRAW / SILT FENCING
 - 50 YD DUMPSTER

- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ADDITIONAL EROSION SEDIMENT CONTROL MEASURES AS NEEDED TO PREVENT AND MINIMIZE SEDIMENT TRANSFER FROM THE PROJECT SITE. THESE MEASURES INCLUDE BUT NOT LIMITED TO SILT FENCE, FLOATING TURBIDITY CURTAIN AND TRUCK CLEANING STATIONS.
 - CONTRACTOR SHALL ENSURE THE SITE IS KEPT IN GOOD CLEAN WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT INCLUDING PICKING UP/ DISPOSING OF TRASH, SWEEPING ROADWAYS AND CLEANING STORMWATER INLETS, AS NEEDED.

PROJECT NUMBER: 600843.03 CITY: TAMPA
 F:\PROJECTS-C3D\600843.03 North & South Lake Restoration\2023\Feb_2023\600843.03_N & S Lake Restoration_Res Plan.dwg LAYOUT: C-105_8
 SAVED: 3/23/2023 10:09 AM PLOTSTYLETABLE: CIVIL-MASTER.CTB PLOTTED: 3/23/2023 4:33 PM DRAWN BY: VIVES, MARTIN



1 **OPTION 1**
 NOT TO SCALE



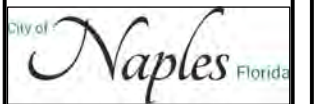
2 **OPTION 2**
 NOT TO SCALE



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 1101 Channelside Drive
 Suite 200
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 Phone: 1.813.289.0750
 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 STREETS & STORMWATER
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

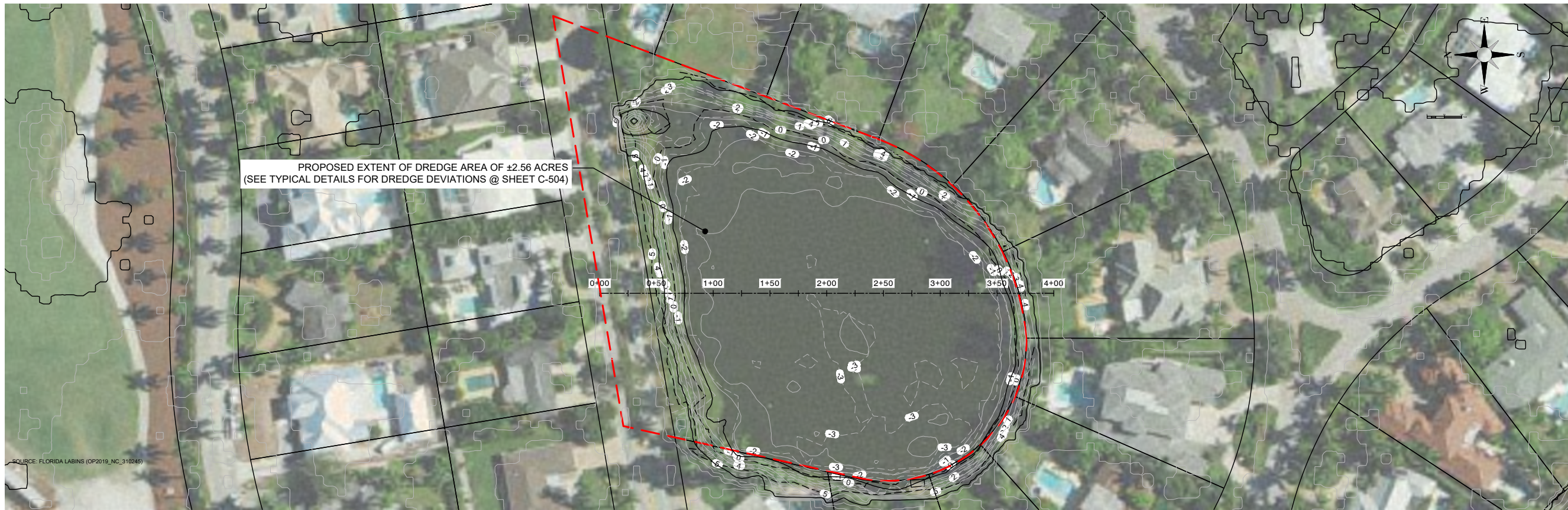
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**RESTORATION
 PLANTS PLAN
 LAKE 8**

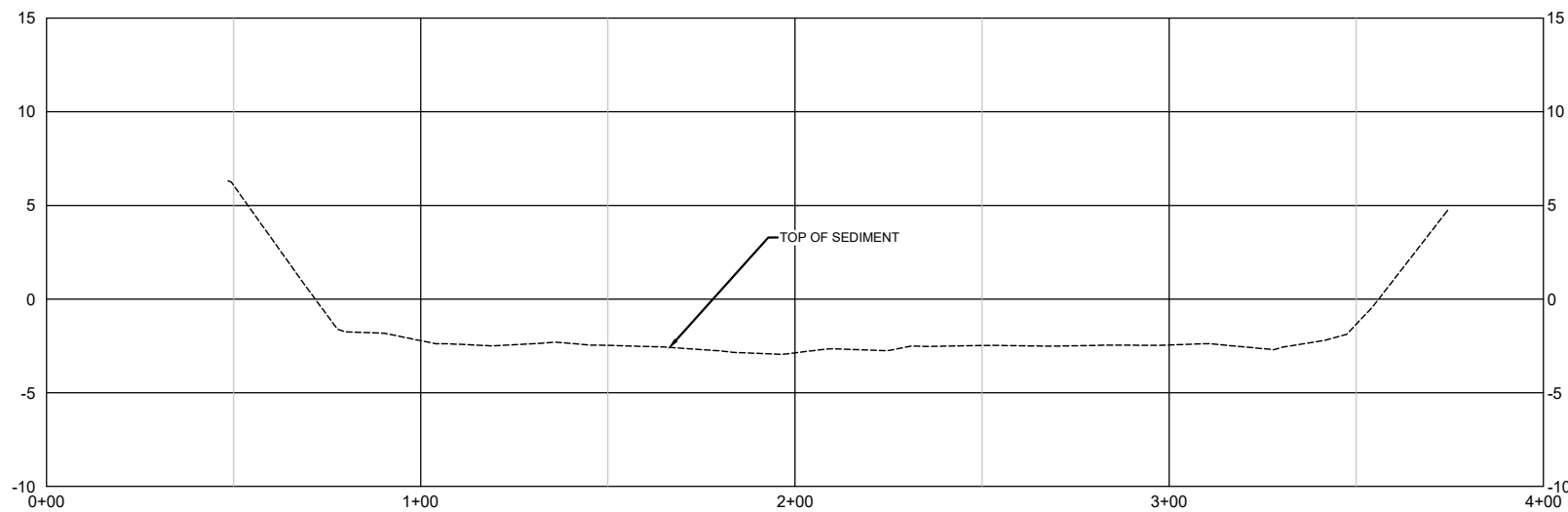
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C-105_8	
SHEET 5 OF 19 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
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PROPOSED EXTENT OF DREDGE AREA OF ±2.56 ACRES
 (SEE TYPICAL DETAILS FOR DREDGE DEVIATIONS @ SHEET C-504)

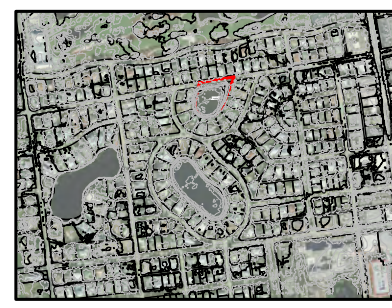
1 PROFILE LOCATION PLAN - LAKE 8
 Scale: 1"=50'



2 NORTH - SOUTH PROFILE VIEW

LEGEND
 --- 5 --- EXISTING CONTOURS
 [Red dashed box] APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.56 ACRES)

NOTES:
 1. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 2. THE BATHYMETRIC DATA FOR PROJECT WAS COMPILED BY WSP IN MONTH YEAR. ELECTRONIC FILES OF DATA WILL BE SUPPLIED TO CONTRACTOR FOR BIDDING PURPOSES.



SITE MAP LOCATION

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GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 STREETS & STORMWATER
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
 600843.03

30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 22, 2023

SHEET TITLE:
**PROFILE VIEW &
 LOCATION LAKE 8**

SHEET NUMBER:	REV. #
C-201_8	
SHEET --- OF 19 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
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GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 STREETS & STORMWATER
 DEPARTMENT**

295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

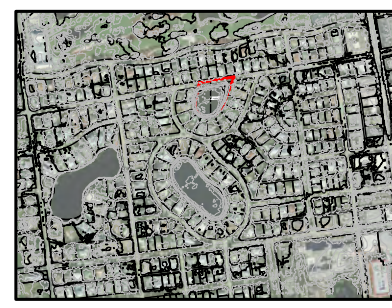
30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 22, 2023

SHEET TITLE:
**CROSS SECTION
 LOCATION PLAN LAKE
 8**

SHEET NUMBER:	REV. #
C-301_8	
SHEET 7 OF 19 SHEETS	



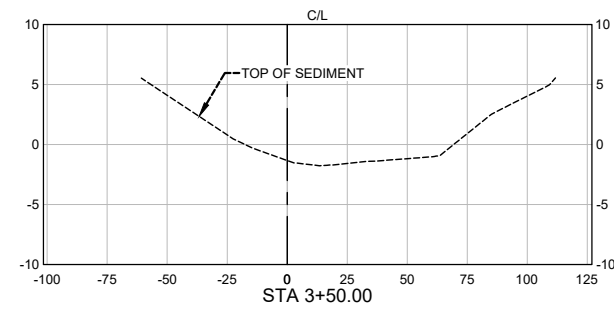
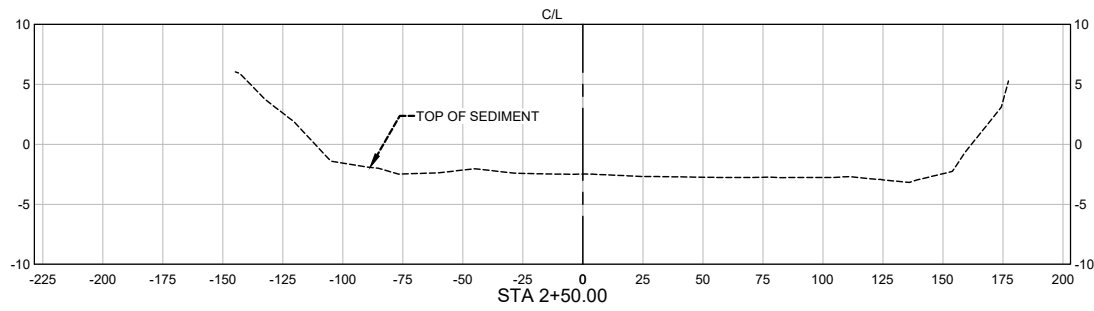
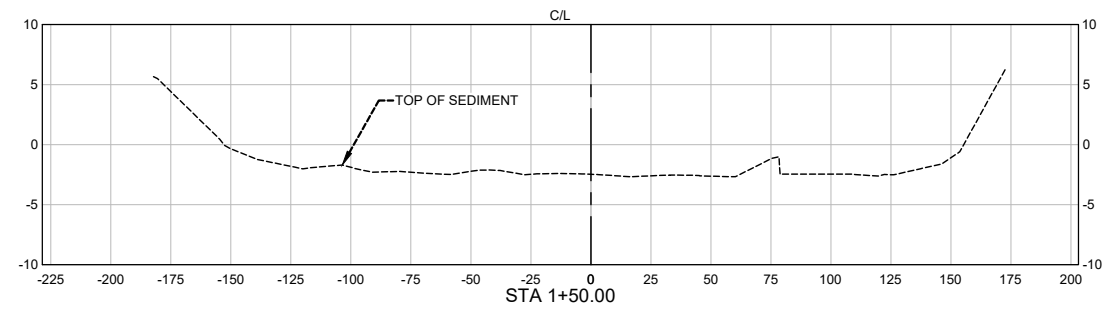
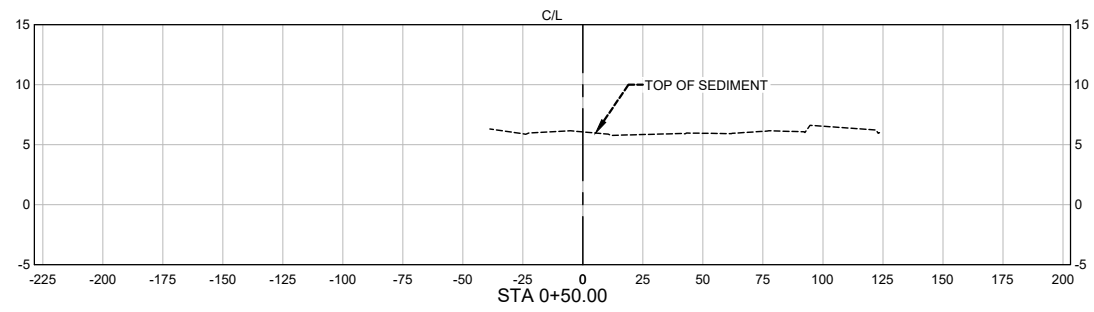
SITE MAP LOCATION

1 PROPOSED CROSS-SECTION LOCATION PLAN - LAKE 8
 Scale: 1"=50'

- LEGEND**
- 5 --- EXISTING CONTOURS
 - [Red dashed box] APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.36 ACRES)

- NOTES:**
1. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 2. THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKES 8, AND 9 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED ??? YEAR.
 3. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY.
 IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
 4. THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.

PROJECT NUMBER: 600843.03 CITY: TAMPA
 F:\PROJECTS-C3D\600843.03 North & South Lake Restoration\2023\Feb_2023\600843.03_N & S Lake Restoration_X-SEC.dwg LAYOUT: C-302_8
 DRAWN BY: VIVES, MARTIN
 PLOTTED: 3/23/2023 4:34 PM
 PLOTSTYLETABLE: CIVIL-MASTER.CTB
 SAVED: 3/22/2023 4:30 PM



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GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 STREETS & STORMWATER
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 22, 2023

SHEET TITLE:
**CROSS SECTIONS
 LAKE 8**

SHEET NUMBER:	REV. #
C-302_8	
SHEET 8 OF 19 SHEETS	

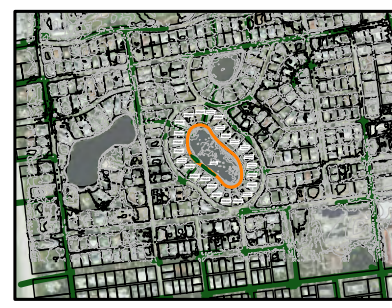
PROJECT NUMBER: 600843.03 CITY: TAMPA
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1 EXISTING SITE PLAN - LAKE 9
 Scale: 1"=50'

- LEGEND**
- s --- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.6 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY

- NOTES:**
1. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 2. THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKE 9 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED ????, YEAR,
 3. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY. IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
 4. THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.




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PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 STREETS & STORMWATER
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
 600843.03

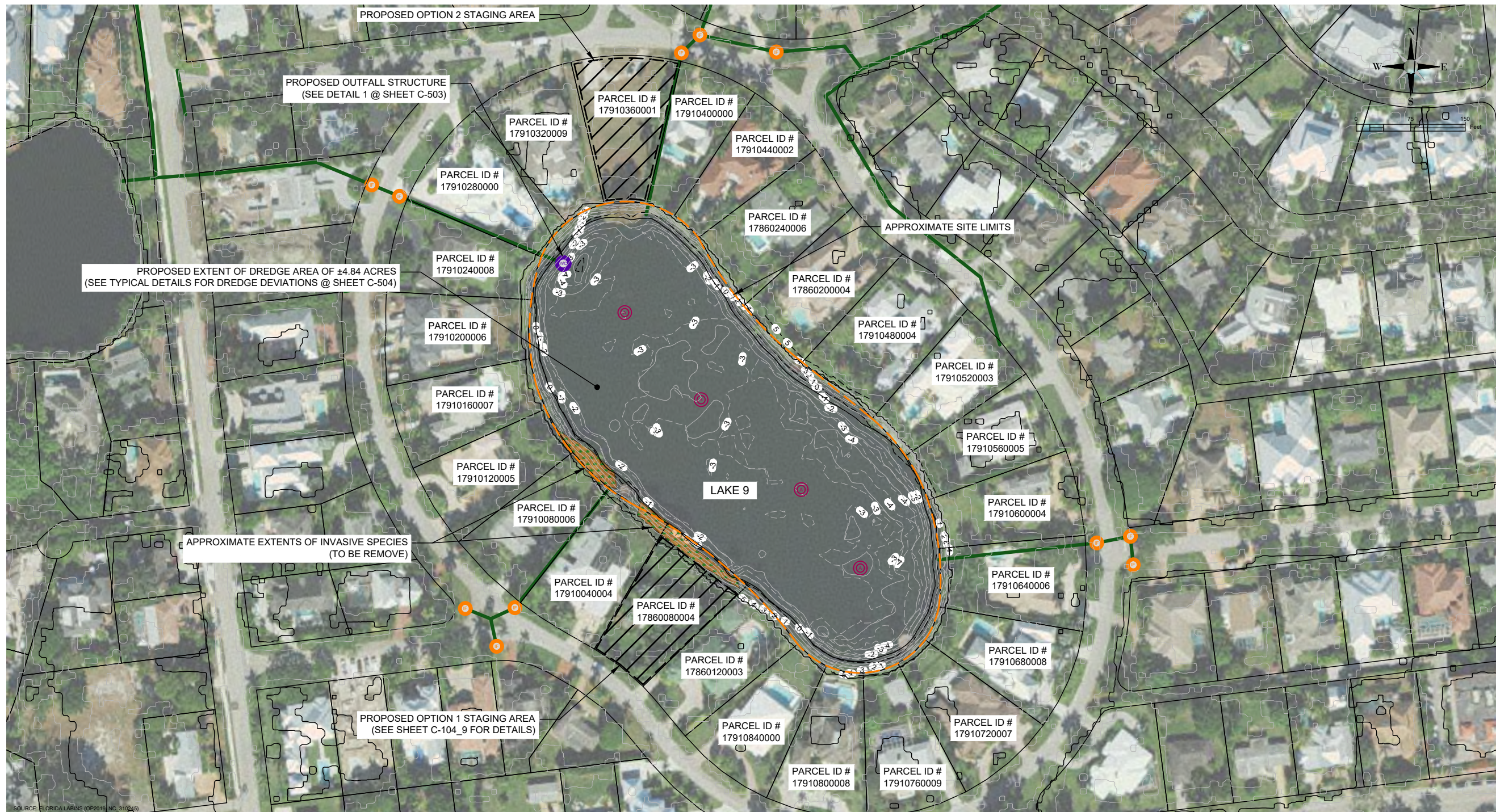
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**EXISTING SITE PLAN
 LAKE 9**

SHEET NUMBER:	REV. #
C-101_9	
SHEET 04 OF 19 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
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1 PROPOSED SITE PLAN - LAKE 9
 Scale: 1"=50'

- LEGEND**
- 5 --- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.6 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - PROPOSED AERATOR
 - INVASIVE SPECIES (TO BE REMOVED)
 - PROPOSED STAGING AREA

- NOTES:**
1. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
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 4. THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.
 5. THE CONTRACTOR SHALL PROTECT THE CYPRESS TREES AND FEET ALONG THE NORTHERN BOUNDARY DURING CONSTRUCTION.



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 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**

City of *Naples* Florida

CLIENT:
**CITY OF NAPLES
 STREETS & STORMWATER
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
 600843.03

REVISIONS			
NO.	DATE	BY	APPROVED

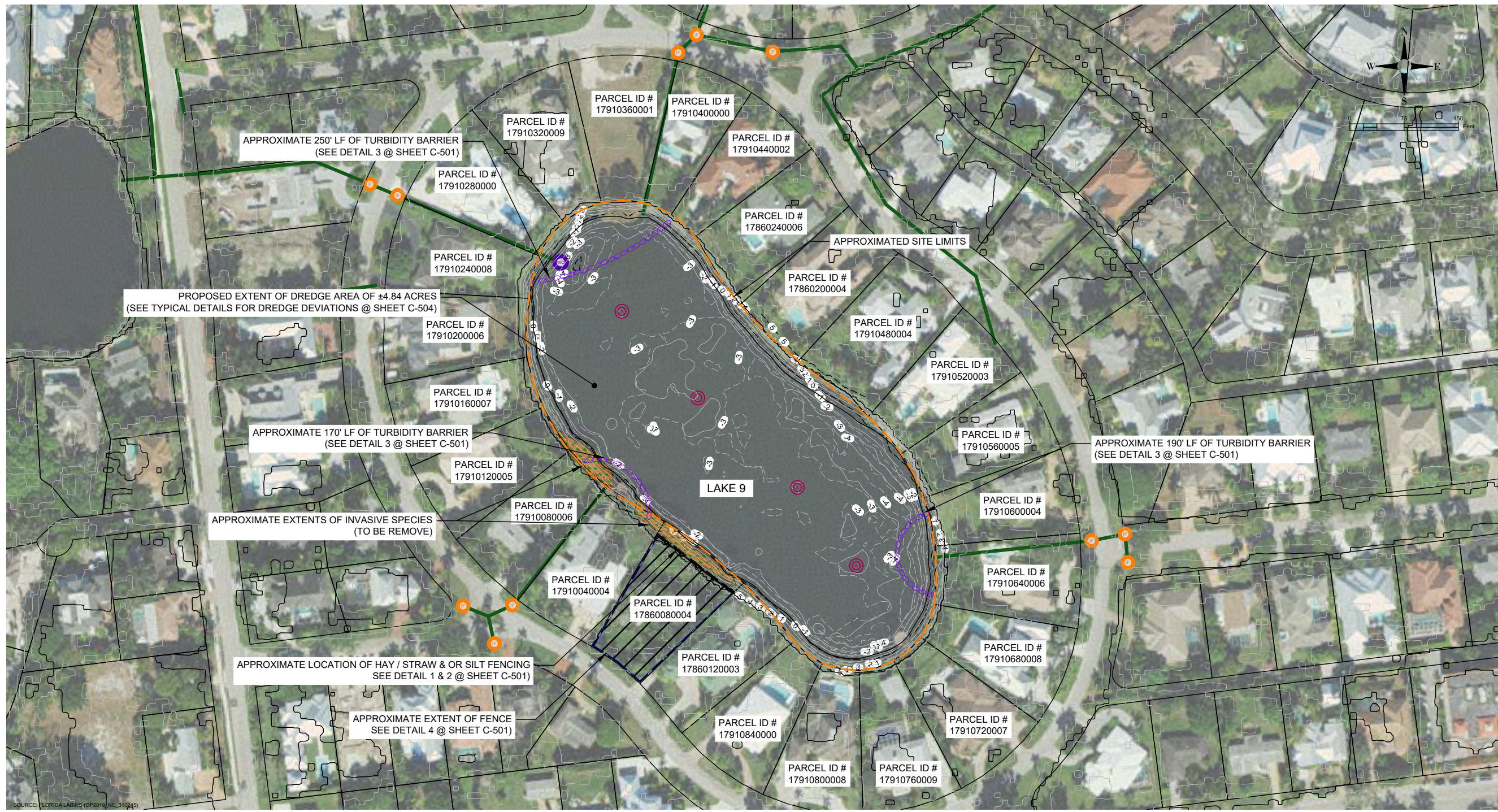
DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**PROPOSED
 SITE PLAN
 LAKE 9**

SHEET NUMBER:	REV. #
C-102_9	
SHEET 04 OF 19 SHEETS	

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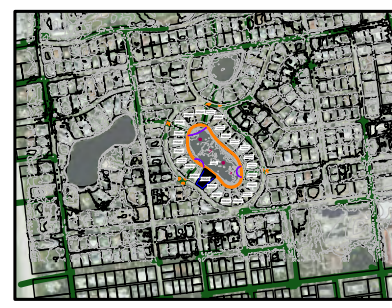
PROJECT NUMBER: 600843.03 CITY: TAMPA
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1 PROPOSED EROSION AND SEDIMENT CONTROL PLAN - LAKE 9
 Scale: 1"=50'

- LEGEND**
- 5 --- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.6 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - PROPOSED AERATOR
 - INVASIVE SPECIES (TO BE REMOVED)
 - FLOATING TURBIDITY BARRIER
 - x --- x --- TEMPORARY FENCING
 - o --- o --- TEMPORARY HAY / STRAW / SILT FENCING

- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ADDITIONAL EROSION SEDIMENT CONTROL MEASURES AS NEEDED TO PREVENT AND MINIMIZE SEDIMENT TRANSFER FROM THE PROJECT SITE. THESE MEASURES INCLUDE BUT NOT LIMITED TO SILT FENCE, FLOATING TURBIDITY CURTAIN AND TRUCK CLEANING STATIONS.
 - CONTRACTOR SHALL ENSURE THE SITE IS KEPT IN GOOD CLEAN WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT INCLUDING PICKING UP/ DISPOSING OF TRASH, SWEEPING ROADWAYS AND CLEANING STORMWATER INLETS, AS NEEDED.



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GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**

City of *Naples* Florida

CLIENT:
**CITY OF NAPLES
 STREETS & STORMWATER
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
 600843.03

REVISIONS

NO.	DATE	BY	APPROVED

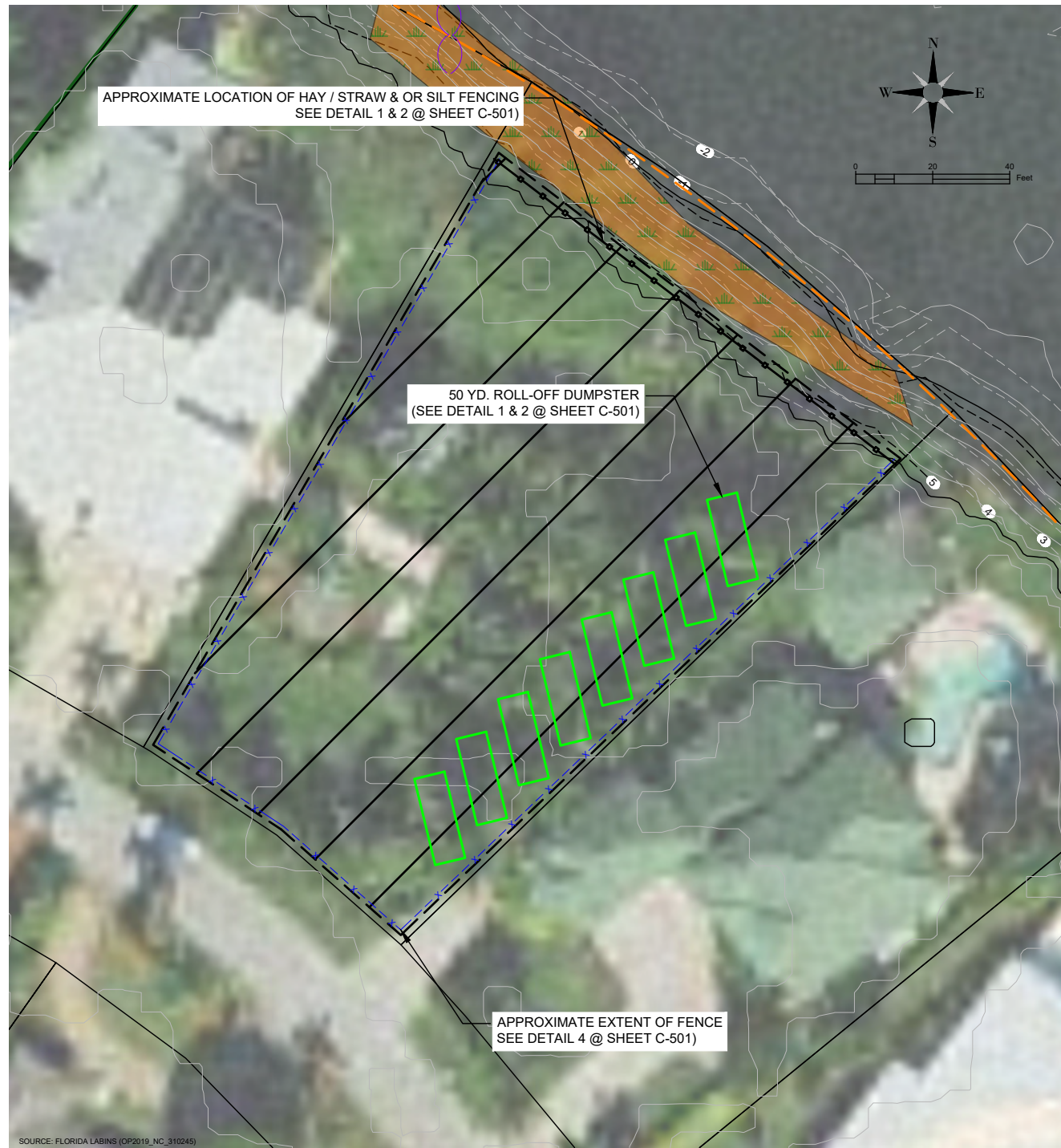
DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**EROSION &
 SEDIMENT
 CONTROL
 PLAN LAKE 9**

SHEET NUMBER:	REV. #
C-103_9	
SHEET --- OF 19 SHEETS	

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PROJECT NUMBER: 600843.03 CITY: TAMPA
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**CITY OF NAPLES
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City of *Naples* Florida

CLIENT:
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 STREETS & STORMWATER
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

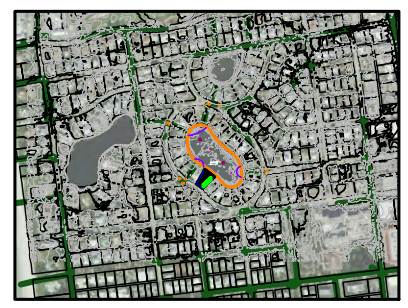
WSP PROJECT NO:
 600843.03

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**DREDGE MATERIAL
 MANAGEMENT PLAN
 LAKE 9**

SHEET NUMBER:	REV. #
C-104_9	
SHEET --- OF 19 SHEETS	



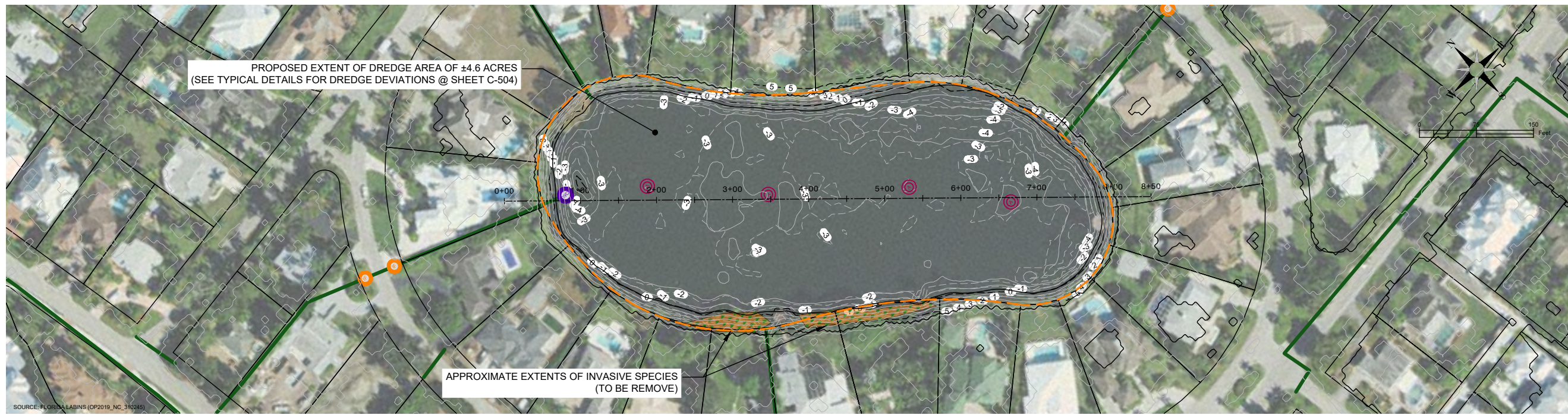
SITE MAP LOCATION

1 PROPOSED MAINTENANCE OF TRAFFIC CONTROL PLAN - LAKE 9

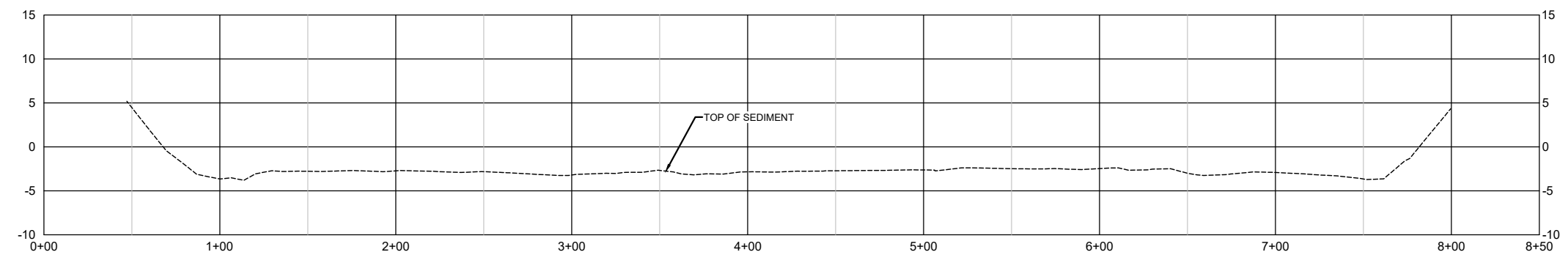
- LEGEND**
- EXISTING CONTOURS
 - EXISTING STORMWATER PIPES
 - APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.6 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - PROPOSED AERATOR
 - INVASIVE SPECIES (TO BE REMOVED)
 - FLOATING TURBIDITY BARRIER
 - TEMPORARY FENCING
 - TEMPORARY HAY / STRAW / SILT FENCING

- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ADDITIONAL EROSION SEDIMENT CONTROL MEASURES AS NEEDED TO PREVENT AND MINIMIZE SEDIMENT TRANSFER FROM THE PROJECT SITE. THESE MEASURES INCLUDE BUT NOT LIMITED TO SILT FENCE, FLOATING TURBIDITY CURTAIN AND TRUCK CLEANING STATIONS.
 - CONTRACTOR SHALL ENSURE THE SITE IS KEPT IN GOOD CLEAN WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT INCLUDING PICKING UP/ DISPOSING OF TRASH, SWEEPING ROADWAYS AND CLEANING STORMWATER INLETS, AS NEEDED.

PROJECT NUMBER: 600843.03 CITY: TAMPA
 F:\PROJECTS-C3D\600843.03 North & South Lake Restoration\2023\Feb_2023\600843.03_N & S Lake Restoration_X-SEC_9.dwg LAYOUT: C-201_9 SAVED: 3/23/2023 4:29 PM PLOTSTYLETABLE: PLOTTED: 3/23/2023 4:36 PM DRAWN BY: VIVES, MARTIN



1 PROFILE LOCATION PLAN - LAKE 9
 Scale: 1"=75'



2 NORTHWEST - SOUTHEAST PROFILE VIEW

- LEGEND**
- 5 --- MAJOR TOPOGRAPHIC CONTOUR
 - EXISTING STORMWATER PIPES
 - APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.84 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - PROPOSED AERATOR
 - INVASIVE SPECIES (TO BE REMOVED)

- NOTES:**
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 - THE BATHYMETRIC DATA FOR PROJECT WAS COMPILED BY WSP IN MONTH YEAR. ELECTRONIC FILES OF DATA WILL BE SUPPLIED TO CONTRACTOR FOR BIDDING PURPOSES.



SITE MAP LOCATION

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GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 STREETS & STORMWATER
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
 600843.03

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**PROFILE VIEW
 & LOCATION
 LAKE 9**

SHEET NUMBER:	REV. #
C-102_9	
SHEET 04 OF 19 SHEETS	

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PROJECT NUMBER: 600843.03 CITY: TAMPA
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**CITY OF NAPLES
 LAKES RESTORATION**

City of *Naples* Florida

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**CITY OF NAPLES
 STREETS & STORMWATER
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**CROSS
 SECTION
 LOCATION
 PLAN LAKE 9**

SHEET NUMBER:	REV. #
C-301_9	
SHEET --- OF 19 SHEETS	

1 PROPOSED CROSS SECTION LOCATION PLAN - LAKE 9
 Scale: 1"=75'

LEGEND

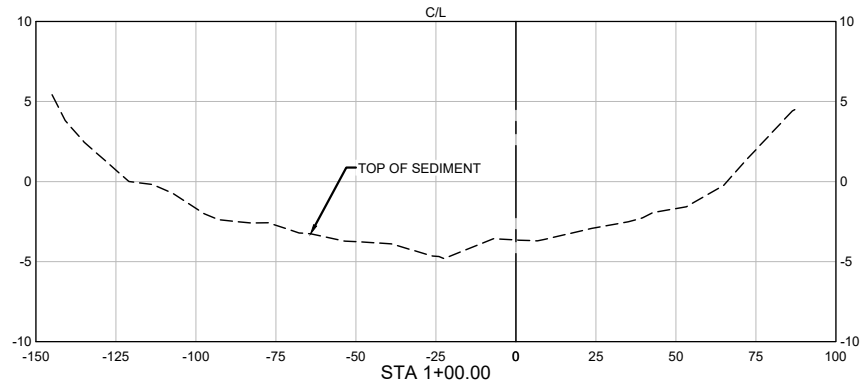
- 5 --- MAJOR TOPOGRAPHIC CONTOUR
- 3 --- MINOR TOPOGRAPHIC CONTOUR
- EXISTING STORMWATER PIPES
- APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.84 ACRES)
- COLLIER COUNTY PARCEL BOUNDARY
- PROPOSED WATER CONTROL STRUCTURE
- PROPOSED INLET FILTER
- PROPOSED AERATOR
- INVASIVE SPECIES (TO BE REMOVED)

- NOTES:**
- ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 - THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKE 9 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED ???? YEAR.
 - THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY. IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
 - THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.
 - THE CONTRACTOR SHALL PROTECT THE CYPRESS TREES AND FEET ALONG THE NORTHERN BOUNDARY DURING CONSTRUCTION.

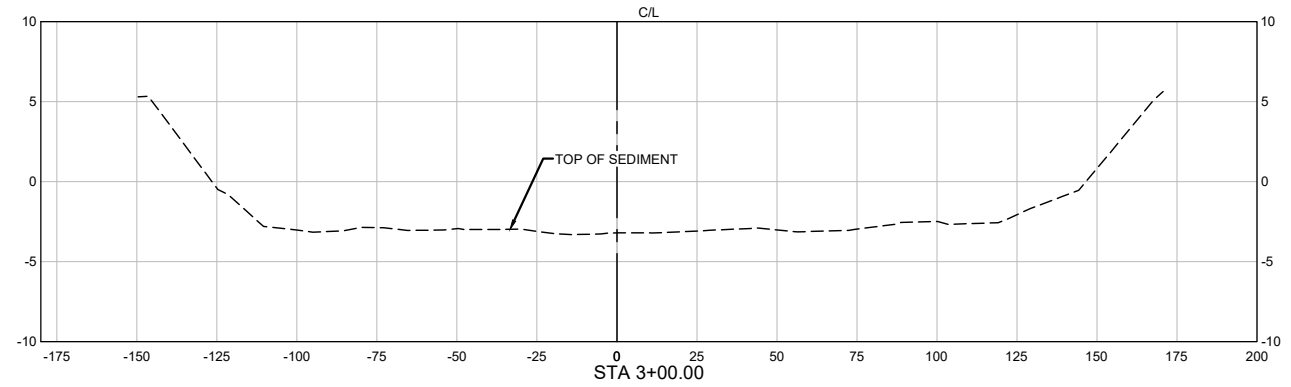


SITE MAP LOCATION

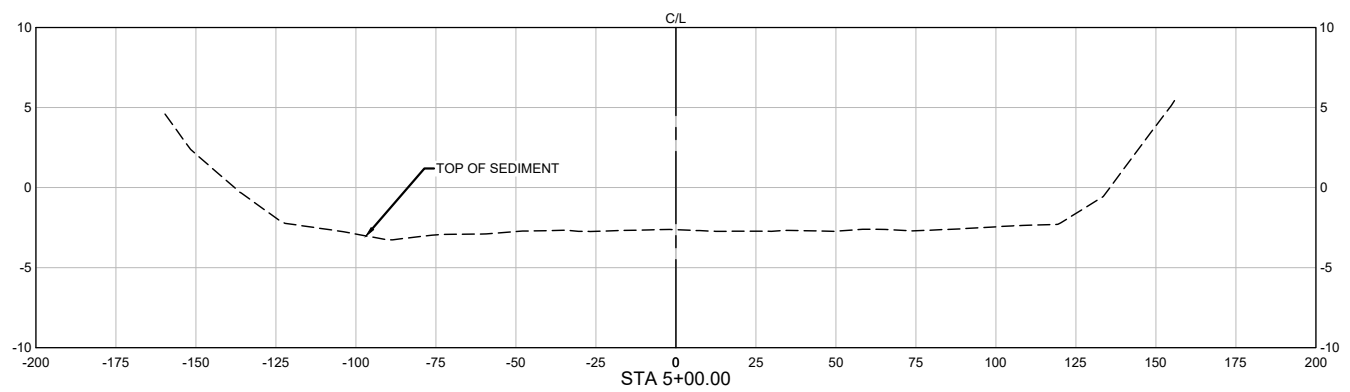
PROJECT NUMBER: 600843.03 CITY: TAMPA
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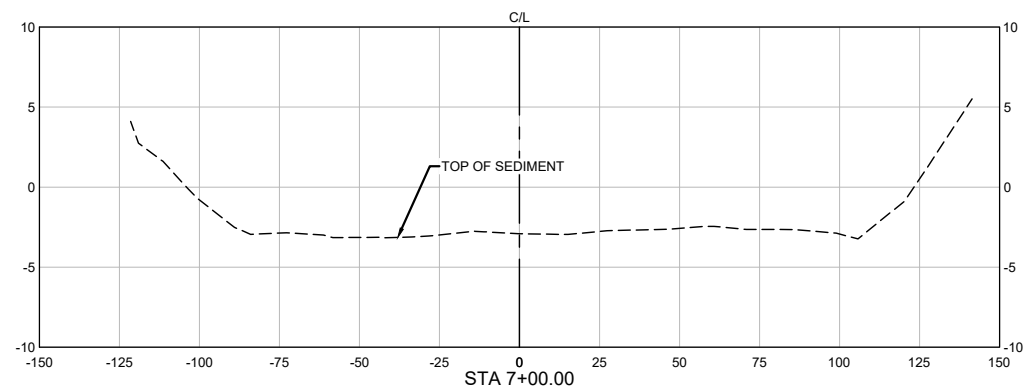
1 CROSS SECTION STA 1+00.00



2 CROSS SECTION STA 3+00.00



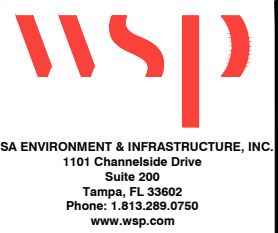
3 CROSS SECTION STA 5+00.00



4 CROSS SECTION STA 7+00.00

- LEGEND**
- 5 --- MAJOR TOPOGRAPHIC CONTOUR
 - 3 --- MINOR TOPOGRAPHIC CONTOUR
 - — — EXISTING STORMWATER PIPES
 - APPROXIMATE LAKE 9 PROJECT BOUNDARY (4.84 ACRES)
 - COLLIER COUNTY PARCEL BOUNDARY
 - PROPOSED WATER CONTROL STRUCTURE
 - PROPOSED INLET FILTER
 - PROPOSED AERATOR
 - INVASIVE SPECIES (TO BE REMOVED)

- NOTES:**
1. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
 2. THE BATHYMETRIC AND TOPOGRAPHIC DATA FOR LAKE 9 RESTORATION PROJECT WAS COMPILED FROM THE FOLLOWING SOURCES WSP SURVEY - DATED ??? YEAR.
 3. THE CONTRACTOR SHALL LOCATE AND IDENTIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES WITHIN THE PROJECT BOUNDARY. IN THE EVENT, THE UTILITIES ARE IMPACTED THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY AND CITY IMMEDIATELY AND REPLACE TO MATCH EXISTING CONDITIONS.
 4. THE CONTRACTOR SHALL LOCATE AND FLAG ALL INVASIVE SPECIES TO BE REMOVED FOR CITY REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.
 5. THE CONTRACTOR SHALL PROTECT THE CYPRESS TREES AND FEET ALONG THE NORTHERN BOUNDARY DURING CONSTRUCTION.



GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
 STREETS & STORMWATER
 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

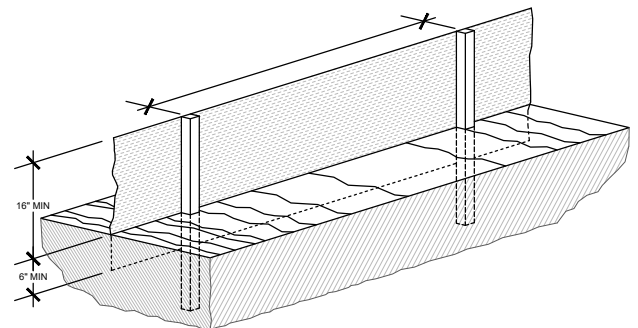
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

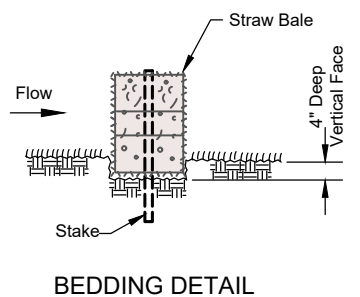
SHEET TITLE:
**CROSS
 SECTIONS
 LAKE 9**

SHEET NUMBER:	REV. #
C-302_9	
SHEET --- OF 19 SHEETS	

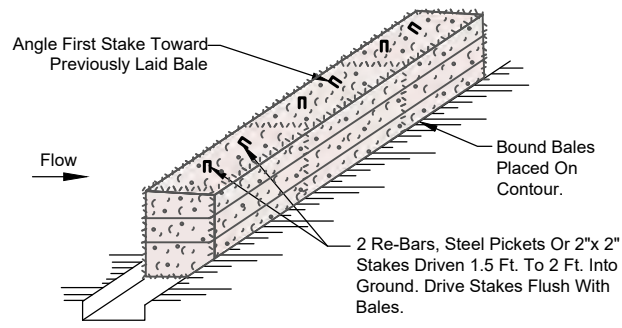
PROJECT NUMBER: 600843.03 CITY: TAMPA
 F:\PROJECTS-C3D\600843.03 North & South Lake Restoration\2023\Feb_2023\600843.03_N & S Lake Restoration_Details 1.dwg LAYOUT: C-501
 SAVED: 3/8/2023 4:06 PM PLOTTED: 3/23/2023 4:36 PM DRAWN BY: VIVES, MARTIN



1 **TYPICAL SILT FENCE DETAIL**
 Not To Scale

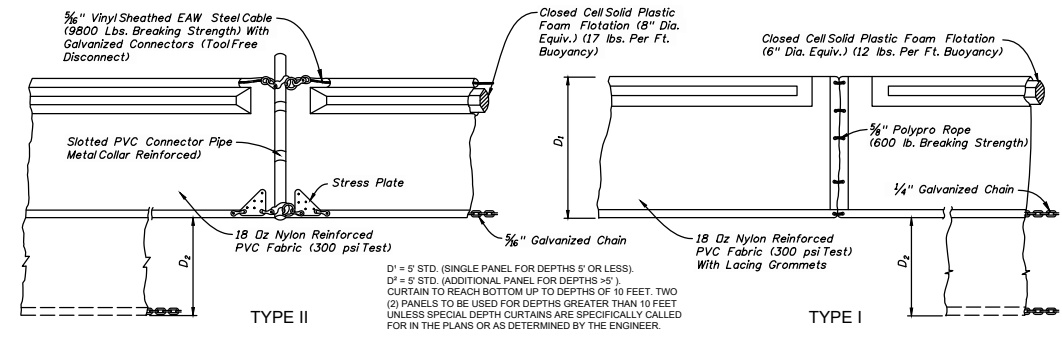


BEDDING DETAIL

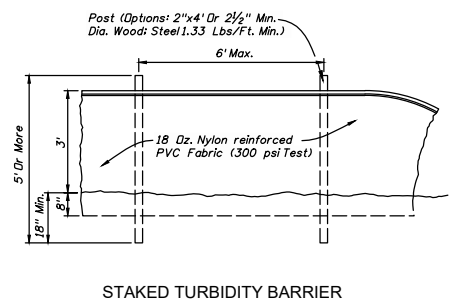


ANCHORING DETAIL

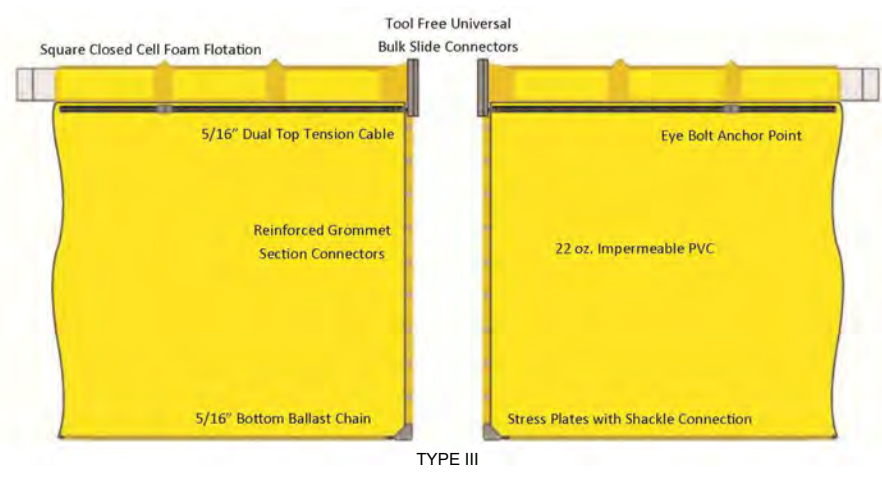
2 **TYPICAL HAY/STAW BALE DETAIL**
 Not To Scale



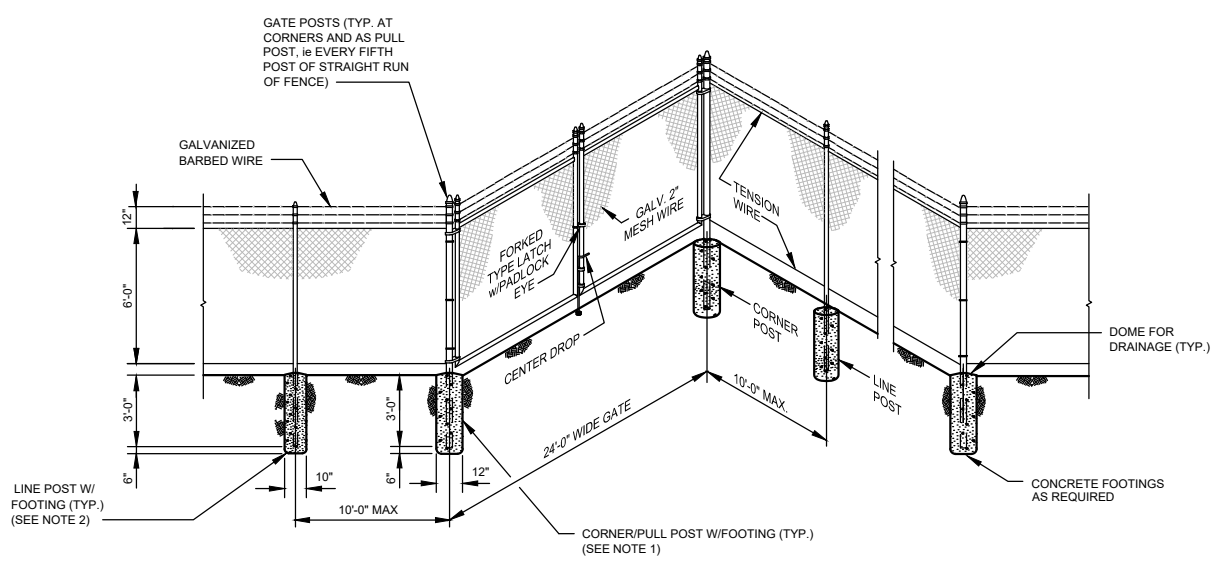
FLOATING TURBIDITY BARRIERS



STAKED TURBIDITY BARRIER



3 **TURBIDITY BARRIERS DETAIL**
 Not To Scale



4 **TYPICAL FENCE / GATE DETAIL**
 Not To Scale

USA ENVIRONMENT & INFRASTRUCTURE, INC.
 1101 Channelside Drive
 Suite 200
 Tampa, FL 33602
 Phone: 1.813.289.0750
 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
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 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

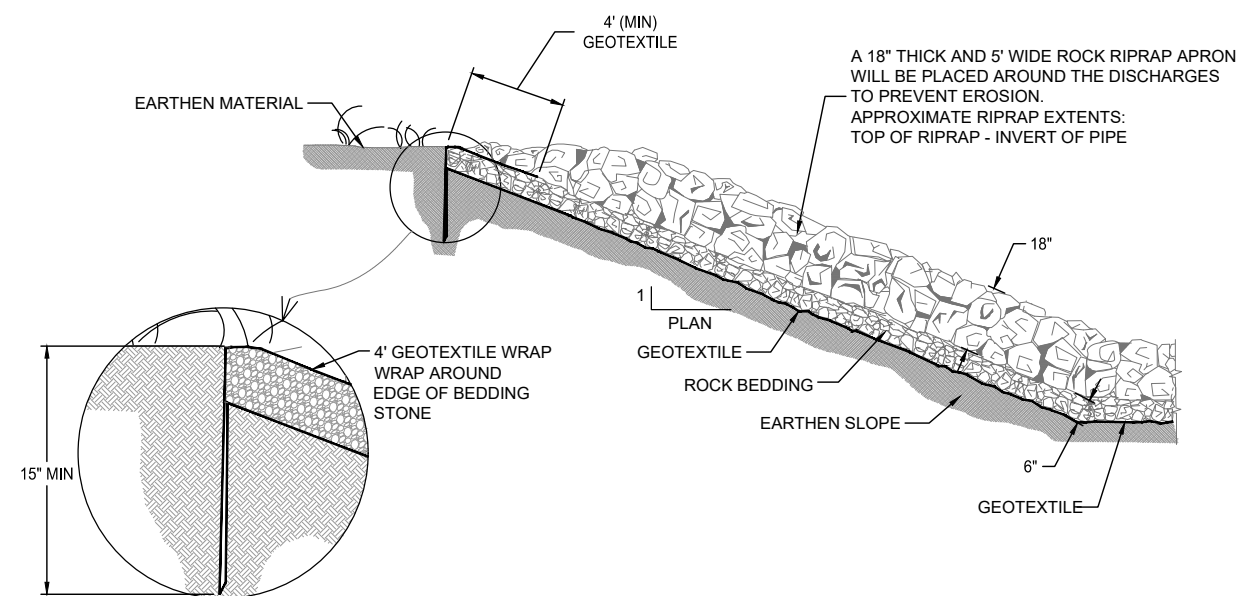
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 8, 2023

SHEET TITLE:
**DESIGN DETAILS
 (1 OF 2)**

SHEET NUMBER:	REV. #
C-501	
SHEET 7 OF 19 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
 F:\PROJECTS-C3D\600843.03 North & South Lake Restoration\2023\Feb_2023\600843.03_N & S Lake Restoration_Details 2.dwg LAYOUT: C-502 SAVED: 3/23/2023 4:30 PM PLOTSTYLETABLE: ... PLOTTED: 3/23/2023 4:36 PM DRAWN BY: VIVES, MARTIN



1 TYPICAL ROCK RIPRAP DETAIL
 NOT TO SCALE

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PROJECT:
**CITY OF NAPLES
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CLIENT:
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 DEPARTMENT**
 295 RIVERSIDE DRIVE
 NAPLES, FL 34102
 WSP PROJECT NO:
 600843.03

30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**DESIGN DETAILS
 (2 OF 3)**

SHEET NUMBER:	REV. #
C-502	
SHEET --- OF 19 SHEETS	



WEIRS

Features

- Customizable outlet orifice profile
- Monitoring devices available
- Easy-to-install pre-assembled vault

How It Works

At its simplest, a weir is no more than an obstruction placed in a channel over which water flows. The obstruction is a specially shaped notch or opening set above the floor of the channel. Weirs can be used for flow restriction and/or measuring flow. The flow rate over a weir is determined by measuring the liquid depth in the pool upstream of the weir.



Weirs

Stormwater runoff can be overwhelming to a stormwater drainage system if a large area is being drained to one discharge location. It is often beneficial to temporarily detain large amounts of runoff in a pond or other detention structure by installing a storm-water weir at the outlet. Weirs retain fluid using a baffle with area openings, which are calculated and designed to restrict outlet flow rates based on the level of the fluid, or head pressure.



1

INLET FILTER DETAILS

NOT TO SCALE

PROJECT NUMBER: 600843.03 CITY: TAMPA
 F:\PROJECTS-C3D\600843.03 North & South Lake Restoration\2023\Feb_2023\600843.03_N & S Lake Restoration_Details 2.dwg LAYOUT: C-503 SAVED: 3/23/2023 4:30 PM PLOTSTYLETABLE: ... PLOTTED: 3/23/2023 4:39 PM DRAWN BY: VIVES, MARTIN



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 Phone: 1.813.289.0750
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PROJECT:
**CITY OF NAPLES
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CLIENT:
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 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

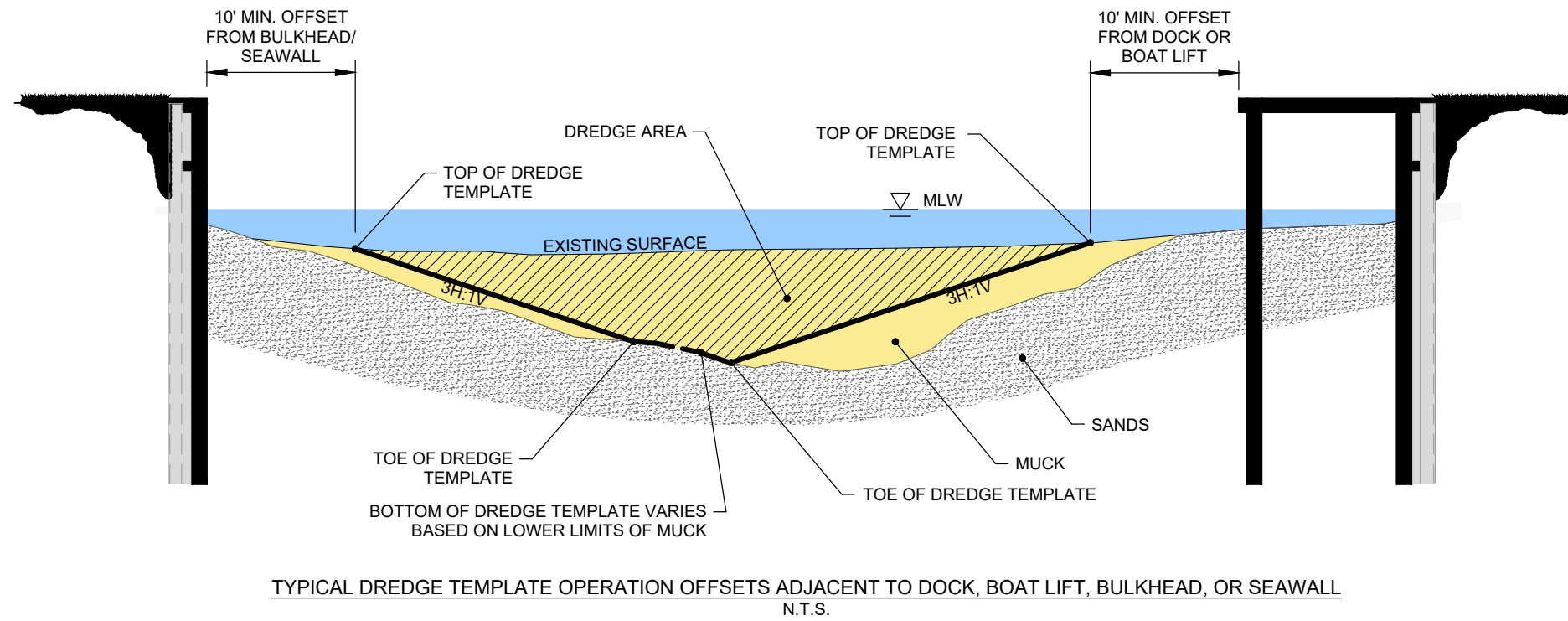
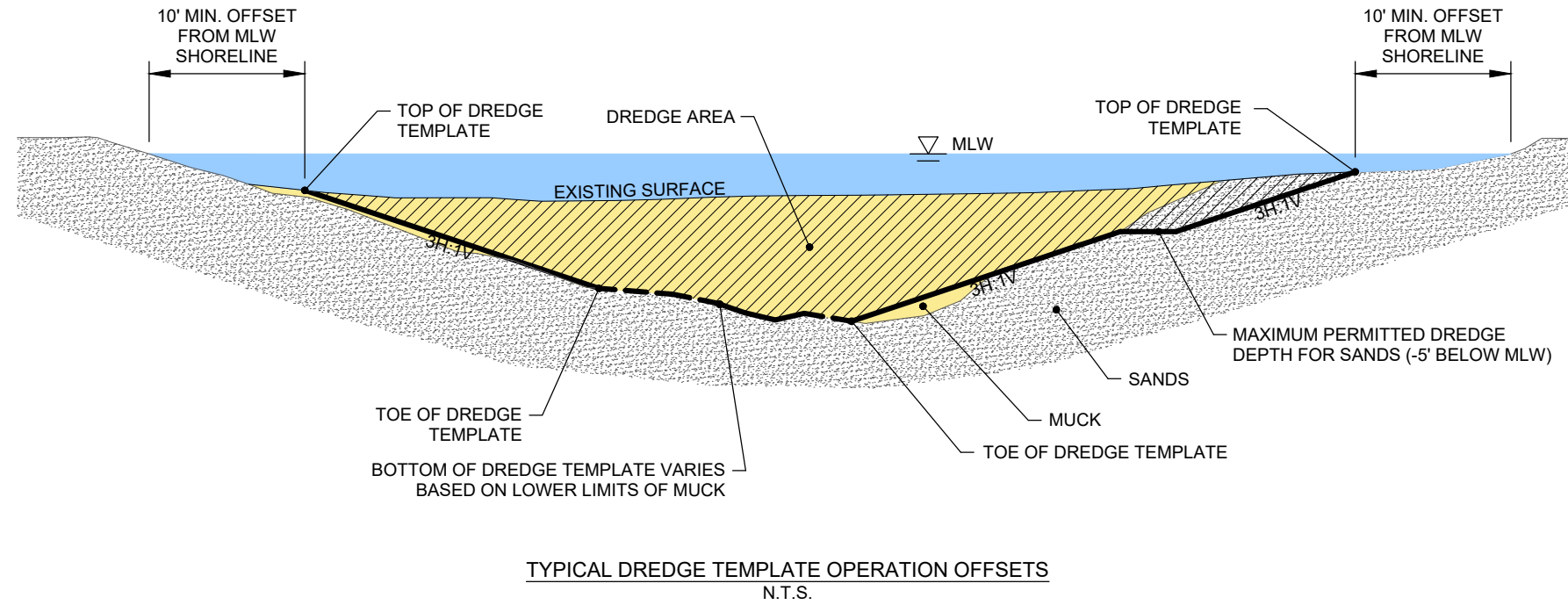
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**DESIGN DETAILS
 (3 OF 3)**

SHEET NUMBER:	REV. #
C-503	
SHEET --- OF 19 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
 F:\PROJECTS-C3D\600843.03 North & South Lake Restoration\2023\Feb_2023\600843.03 N & S Lake Restoration_Dredge Template.dwg LAYOUT: C-504
 PLOTTED: 3/23/2023 4:37 PM DRAWN BY: VIVES, MARTIN
 PLOTSTYLETABLE: CIVIL-MASTER.CTB
 SAVED: 3/21/2023 3:13 PM



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 1101 Channelside Drive
 Suite 200
 Tampa, FL 33602
 Phone: 1.813.289.0750
 www.wsp.com

GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
 LAKES RESTORATION**



CLIENT:
**CITY OF NAPLES
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 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
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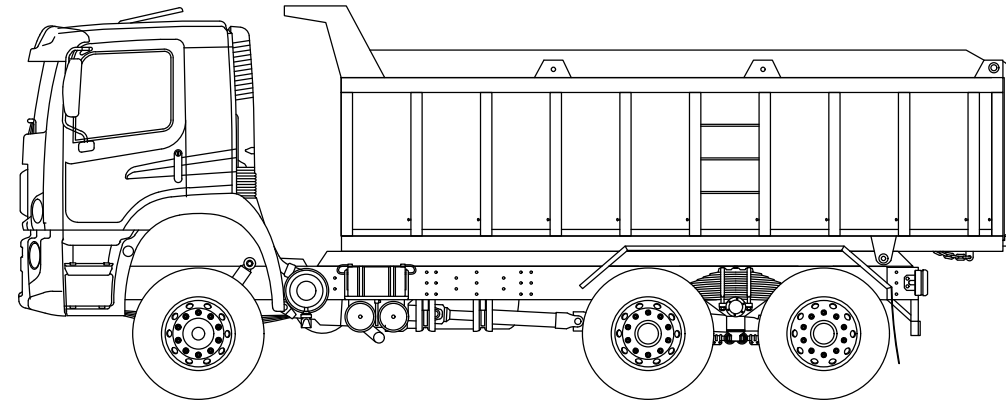
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 21, 2023

SHEET TITLE:
**TYPICAL DREDGE
 TEMPLATES**

SHEET NUMBER:	REV. #
C-504	
SHEET --- OF 19 SHEETS	

PROJECT NUMBER: 600843.03 CITY: TAMPA
 F:\PROJECTS-C3D\600843.03 North & South Lake Restoration\2023\Feb_2023\600843.03_N & S Lake Restoration_MTCP_Details_8.dwg LAYOUT: C-505
 SAVED: 3/23/2023 10:25 AM PLOTTED: 3/23/2023 4:37 PM DRAWN BY: VIVES, MARTIN



1 DUMPSTER TRUCK
 Not To Scale



2 50 Yd. DUMPSTER DIMENSIONS
 Not To Scale

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 Tampa, FL 33602
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GREGORY W. CORNING, P.E.
 FLORIDA PE LICENSE NO. 79293

PROJECT:
**CITY OF NAPLES
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CLIENT:
**CITY OF NAPLES
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 295 RIVERSIDE DRIVE
 NAPLES, FL 34102

WSP PROJECT NO:
 600843.03

30% / DESIGN & PERMITTING (NOT FOR CONSTRUCTION)

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	D. ATWATER
DRAWN BY:	M. VIVES
CHECKED BY:	T. G. DAVIES
APPROVED BY:	G. CORNING
DATE:	March 23, 2023

SHEET TITLE:
**ROLL-OFF
 CONTAINERS
 DETAILS**

SHEET NUMBER:	REV. #
C-505	
SHEET --- OF 19 SHEETS	