GENERAL SCOPE OF DESIGN PERMITTING AND **CONSTRUCTION WORK FOR LAKES RESTORATION** LAKE 8 & 9 RESTORATION PROJECTS **COLLIER COUNTY, NAPLES, FLORIDA**

SHEET LIST TABLE					
SHEET NUMBER	SHEET TITLE				
G-001	COVER				
G-002	GENERAL NOTES				
C-101_8	EXISTING SITE PLAN LAKE 8				
C-102_8	EROSION & SEDIMENT CONTROL PLAN LAKE 8				
C-103_8	MAINTENANCE OF TRAFFIC CONTROL PLAN				
C-104_8	PROPOSED SITE PLAN LAKE 8				
C-201_8	LITTORAL PLANTING AND GRADING PLAN AND PROFILE				
C-301_8	CROSS SECTION LOCATION PLAN LAKE 8				
C-101_9	EXISTING SITE PLAN LAKE 9				
C-102_9	EROSION AND SEDIMENT CONTROL PLAN LAKE 9				
C-103_9	MAINTENANCE OF TRAFFIC CONTROL PLAN LAKE 9				
C-104_9	PROPOSED SITE PLAN LAKE 9				
C-201_9	PROFILE VIEW & LOCATION LAKE 9				
C-301_9	CROSS SECTION LOCATION PLAN AND SECTIONS LAKE 9				
C-501	DESIGN DETAILS (1 OF 3)				
C-502	DESIGN DETAILS (2 OF 3)				
C-503	DESIGN DETAILS (3 OF 3)				



- TICKET.
- 4.

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



VICINITY MAP

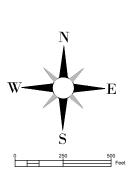
SUNSHINE STATE ONE CALL OF FLORIDA CALL BEFORE YOU DIG 1-800-432-4770

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.

2. 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.

3. RESPECT AND PROTECT THE MARKS DURING THE PROJECT, IF MARKS ARE DESTROYED, REQUEST A NEW LOCATE

DIG SAFELY, USING EXTREME CAUTION WHEN DIGGING WITHIN 24 INCHES ON EITHER SIDE OF THE MARKS TO AVOID HITTING THE BURIED UTILITY LINES.



LEGEND

APPROXIMATE LAKE 8 PROJECT L _ _ J BOUNDARY (2.36 ACRES) APPROXIMATE LAKE 9 PROJECT

BOUNDARY (4.84 ACRES)

SCALED DATA.

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

MAYOR

TERESA HEITMANN

VICE MAYOR

CITY COUNCIL

TERRY HUTCHISON BETH PETRUNOFF TED BLANKENSHIP PAUL PERRY

CITY MANAGER

JAY BOODHESHWAR

PUBLIC WORKS DIRECTOR

BOB MIDDLETON

PLANS PREPARED FOR:

CITY OF NAPLES

PLANS PREPARED BY:

5845 NW 158TH ST MIAMI LAKES, FLORIDA 33014 TEL:(305) 826-5588 E-MAIL: greg.corning@wsp.com



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

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

MICHAEL McCABE

RAYMOND CHRISTMAN

PUBLIC WORKS DEPARTMENT

295 RIVERSIDE DRIVE NAPLES, FLORIDA 34102 PHONE: 239-213-5016 FAX: 239-213-5010

WSP ENVIRONMENT AND INFRASTRUCTURE, INC.

ENGINEER OF RECORD: GREGORY CORNING, P.E (FL 79293)

GREGORY W. CORNING, P.E. FLORIDA PE LICENSE NO. 79293 **PROJECT: CITY OF NAPLES** LAKES RESTORATION STR Ż 0 \mathbf{O} 0 Ο CLIENT: **CITY OF NAPLES PUBLIC WORKS** DEPARTMENT 295 RIVERSIDE DRIVE **NAPLES, FL 34102** WSP PROJECT NO: ш 600843.03 REVISIONS APPROVE DATE BY 3/24/23 GC MV \mathbf{O} GC 6/7/23 GB GC 8/4/23 GB S 9/27/23 GB GC ш % 0 σ D. ATWATER **DESIGNED BY:** M. VIVES **DRAWN BY:** CHECKED BY: T. G. DAVIES **APPROVED BY:** G. CORNING September 27, 202 DATE: SHEET TITLE: COVER SHEET NUMBER: **REV.** # G-001 D SHEET 01 OF 17 SHEETS

NOTES:

A. GENERAL

1. PROPERTY OWNERS NAME AND ADDRESS:

PARCEL ID	LAKE 8 (NORTH LAKE)			
	OWNER NAME	ADDRESS	СІТҮ	STATE
8531040007	THOMAS & MEICHU SNEAD	481 7TH AVE. N.	NAPLES	FL
8531080009	FRANK D. & SHARLENE R. DREIER	485 7TH AVE. N.	NAPLES	FL
8531120008	MARY IRENE BINGHAM	501 7TH AVE. N.	NAPLES	FL
8531160000	JEAN V. KANE REVOCABLE TRUST	507 7TH AVE. N.	NAPLES	FL
8531200009	HEIDI L. ROBAR REV LIV TRUST	527 7TH AVE. N.	NAPLES	FL
8531240001	DANIEL W. TERPSMA TRUST	549 7TH AVE. N.	NAPLES	FL
8531280003	GEORGE REVOCABLE TRUST	565 7TH AVE. N.	NAPLES	FL
8531320002	WILLIAM M. & NANCY DUNLAP JR	579 7TH AVE. N.	NAPLES	FL
8531360004	FRANKLIN & JACQUE L. PAULSON	615 7TH AVE. N.	NAPLES	FL
17911320008	SHRI & VICTORIA PERSAUD	687 BOUGAINVILLE RD	NAPLES	FL
17911280009	DOROTHY M. HARE TRUST	470 7TH AVE. N.	NAPLES	FL
17911240007	LARRY A. & KATHLEEN A. RAMBO	655 BOUGAINVILLE RD	NAPLES	FL
17911200005	PATRICIA K. COLLINS REVOC. TRUST	645 BOUGAINVILLE RD	NAPLES	FL
17911160006	JOHN D. REMINGTON, & JAQUELINE S. REMINGTON	633 BOUGAINVILLE RD	NAPLES	FL
17911120004	CONSTANTINE S. MIHAS REV. TRUST	625 BOUGAINVILLE RD	NAPLES	FL
17911080005	CONNIE H. SPARPE 2018 FL TRUST	605 BOUGAINVILLE RD	NAPLES	FL
17911040003	MARGARET PATTEN SMITH R TRUST	615 BOUGAINVILLE RD	NAPLES	FL
17911000001	LORRAINE M. LONERGAN TRUST	616 BOUGAINVILLE RD	NAPLES	FL
17910960003	SEMPRONE INVESTMENTS LTD	649 BOUGAINVILLE RD	NAPLES	FL
17910920001	MAAAT TRUST	677 BOUGAINVILLE RD	NAPLES	FL
17910900005	PEARL R. STRUMINGER TRUST	689 BOUGAINVILLE RD	NAPLES	FL
17910880002	TERRY & BOBBIE CANERDY	572 7TH AVE. N.	NAPLES	FL
1,51000002				
	LAKE 9 (SOUTH LAKE)			
PARCEL ID	OWNER NAME	ADDRESS	СІТҮ	STATE
17910360001	ELIZABETH A. MIHAS REV TRUST	677 PALM CIR. E.	NAPLES	FL
17910400000	CONSTANTINE S. MIHAS REV. TRUST	659 PALM CIR. E.	NAPLES	FL
17910440002	LINDA LADAMANY REVOC TRUST	649 PALM CIR. E.	NAPLES	FL
17860240006	OTTO W. & JENNIFER J. IMMEL	635 PALM CIR. E.	NAPLES	FL
17860200004	JOHN M. & GERALDINE C. ROEDER	605 PALM CIR. E.	NAPLES	FL
17910480004	DAVID H. & LAURA C. LINDNER	597 PALM CIR. E.	NAPLES	FL
17910520003	GREGORY S. & ROSALIE L. DEVESON	575 PALM CIR. E.	NAPLES	FL
17910560005	JOHN J. & LORI A. RAY III	561 PALM CIR. E.	NAPLES	FL
17910600004	KENNETH C. MC CUBBINS	555 PALM CIR. E.	NAPLES	FL
17910640006	KEVIN & BARBARA ELLEN MORANO	499 PALM CIR. E.	NAPLES	FL
17910680008	JOSEPH G. WHEELER REV TRUST	479 PALM CIR. E.	NAPLES	FL
17910720007	CHRISTOPHER B. LOFGREN	455 PALM CIR. E.	NAPLES	FL
	ROBERT H. & LINDA W. MEADE	411 PALM CIR. E.	NAPLES	FL
17910760009	NODERT HI & EINDA W. MILADE			
			NAPLES	I FI
17910800008	GREGORY D. & KIMBERLEE K. WHITE	410 PALM CIR. W.	NAPLES NAPLES	FL FI
17910800008 17910840000	JOSEPH M. & DIANE R. THOMAS	430 PALM CIR. W.	NAPLES	FL
17910800008 17910840000 17860120003	JOSEPH M. & DIANE R. THOMAS BRIAN M. & DIANNA L KANTER	430 PALM CIR. W. 450 PALM CIR. W.	NAPLES NAPLES	FL FL
17910800008 17910840000 17860120003 17860080004	JOSEPH M. & DIANE R. THOMAS BRIAN M. & DIANNA L KANTER FERN LP	430 PALM CIR. W. 450 PALM CIR. W. 476 PALM CIR. W.	NAPLES NAPLES NAPLES	FL FL FL
17910800008 17910840000 17860120003 17860080004 17910040004	JOSEPH M. & DIANE R. THOMAS BRIAN M. & DIANNA L KANTER FERN LP FRED C. & SUE C. SCHULTE	430 PALM CIR. W. 450 PALM CIR. W. 476 PALM CIR. W. 490 PALM CIR. W.	NAPLES NAPLES NAPLES NAPLES	FL FL FL FL
17910800008 17910840000 17860120003 17860080004 17910040004 17910080006	JOSEPH M. & DIANE R. THOMAS BRIAN M. & DIANNA L KANTER FERN LP FRED C. & SUE C. SCHULTE JOHN P. CARDILLO, LINDA CARDILLO & JOHN THOMAS CADILLO	430 PALM CIR. W. 450 PALM CIR. W. 476 PALM CIR. W. 490 PALM CIR. W. 510 PALM CIR. W.	NAPLES NAPLES NAPLES NAPLES NAPLES	FL FL FL FL FL
17910800008 17910840000 17860120003 17860080004 17910040004 17910080006 17910120005	JOSEPH M. & DIANE R. THOMAS BRIAN M. & DIANNA L KANTER FERN LP FRED C. & SUE C. SCHULTE JOHN P. CARDILLO, LINDA CARDILLO & JOHN THOMAS CADILLO EJC REVOCABLE TRUST & EDWARD J. CAWLEY	430 PALM CIR. W. 450 PALM CIR. W. 476 PALM CIR. W. 490 PALM CIR. W. 510 PALM CIR. W. 542 PALM CIR. W.	NAPLES NAPLES NAPLES NAPLES NAPLES NAPLES	FL FL FL FL FL FL FL
17910800008 17910840000 17860120003 17860080004 17910040004 17910080006 17910120005 17910160007	JOSEPH M. & DIANE R. THOMAS BRIAN M. & DIANNA L KANTER FERN LP FRED C. & SUE C. SCHULTE JOHN P. CARDILLO, LINDA CARDILLO & JOHN THOMAS CADILLO EJC REVOCABLE TRUST & EDWARD J. CAWLEY ROBERT J. SULLIVAN & JENNIFER SPROUL SULLIVAN	430 PALM CIR. W. 450 PALM CIR. W. 476 PALM CIR. W. 490 PALM CIR. W. 510 PALM CIR. W. 542 PALM CIR. W. 570 PALM CIR. W.	NAPLES NAPLES NAPLES NAPLES NAPLES NAPLES NAPLES	FL FL FL FL FL FL FL FL
17910760009 17910800008 17910840000 17860120003 17860080004 17910040004 17910080006 17910120005 17910160007 17910200006	JOSEPH M. & DIANE R. THOMAS BRIAN M. & DIANNA L KANTER FERN LP FRED C. & SUE C. SCHULTE JOHN P. CARDILLO, LINDA CARDILLO & JOHN THOMAS CADILLO EJC REVOCABLE TRUST & EDWARD J. CAWLEY ROBERT J. SULLIVAN & JENNIFER SPROUL SULLIVAN LEE K. & HELEN C. ANDERSON	430 PALM CIR. W. 450 PALM CIR. W. 476 PALM CIR. W. 490 PALM CIR. W. 510 PALM CIR. W. 542 PALM CIR. W. 570 PALM CIR. W. 590 PALM CIR. W.	NAPLES NAPLES NAPLES NAPLES NAPLES NAPLES NAPLES NAPLES	FL FL FL FL FL FL FL FL FL
17910800008 17910840000 17860120003 17860080004 17910040004 17910080006 17910120005 17910160007	JOSEPH M. & DIANE R. THOMAS BRIAN M. & DIANNA L KANTER FERN LP FRED C. & SUE C. SCHULTE JOHN P. CARDILLO, LINDA CARDILLO & JOHN THOMAS CADILLO EJC REVOCABLE TRUST & EDWARD J. CAWLEY ROBERT J. SULLIVAN & JENNIFER SPROUL SULLIVAN	430 PALM CIR. W. 450 PALM CIR. W. 476 PALM CIR. W. 490 PALM CIR. W. 510 PALM CIR. W. 542 PALM CIR. W. 570 PALM CIR. W.	NAPLES NAPLES NAPLES NAPLES NAPLES NAPLES NAPLES	FL FL FL FL FL FL FL FL

PROJECT LOCATION: LAKE 8 - LAT: 26° 9' 19"N LONG: 81°48' 8"W LAKE 9 - LAT: 26° 9' 10"N LONG: 81°48' 10"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. 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.

5. AREA ESTIMATES:

- 5.1. LAKE 8 AND CITY ROADS PLATTED BOUNDARY = 2.36 ACRES
- 5.2. LAKE 9 AND CITY ROADS PLATTED BOUNDARY = 4.84 ACRES
- 6. 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.
- 7. 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.
- 8. THE CONTRACTOR SHALL USE CAUTION TO PROTECT WILDLIFE AND ECOSYSTEM THROUGH THE PROJECT DURATION.
- 9. 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.
- 10. 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONTROL OF EROSION WITHIN 10. 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

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

D. EXISTING INFRASTRUCTURE

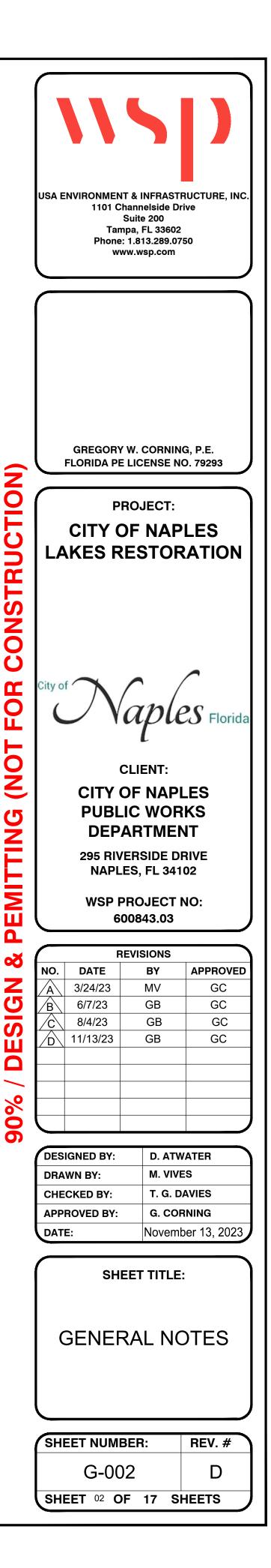
E. EXISTING UTILITIES

- 1 UTILITY LINES.
- IMMEDIATELY.

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

THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL PERTINENT UTILITIES COMPANIES 48 HOURS PRIOR TO DIGGING FOR LOCATION OF UNDERGROUND

IN THE EVENT THE UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL RESTORE TO MATCH EXISTING CONDITIONS AND NOTIFY THE PERTINENT UTILITY COMPANY

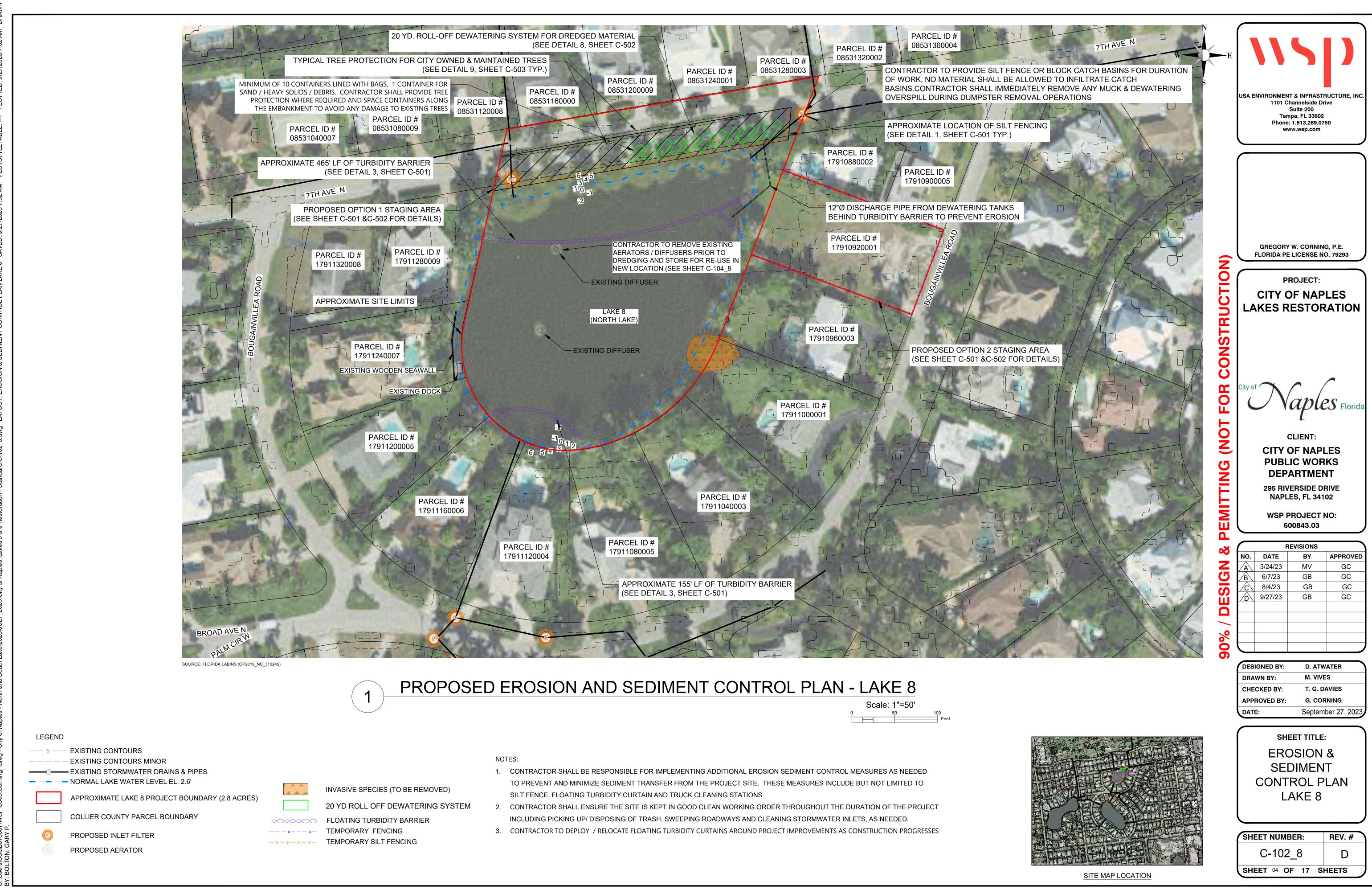




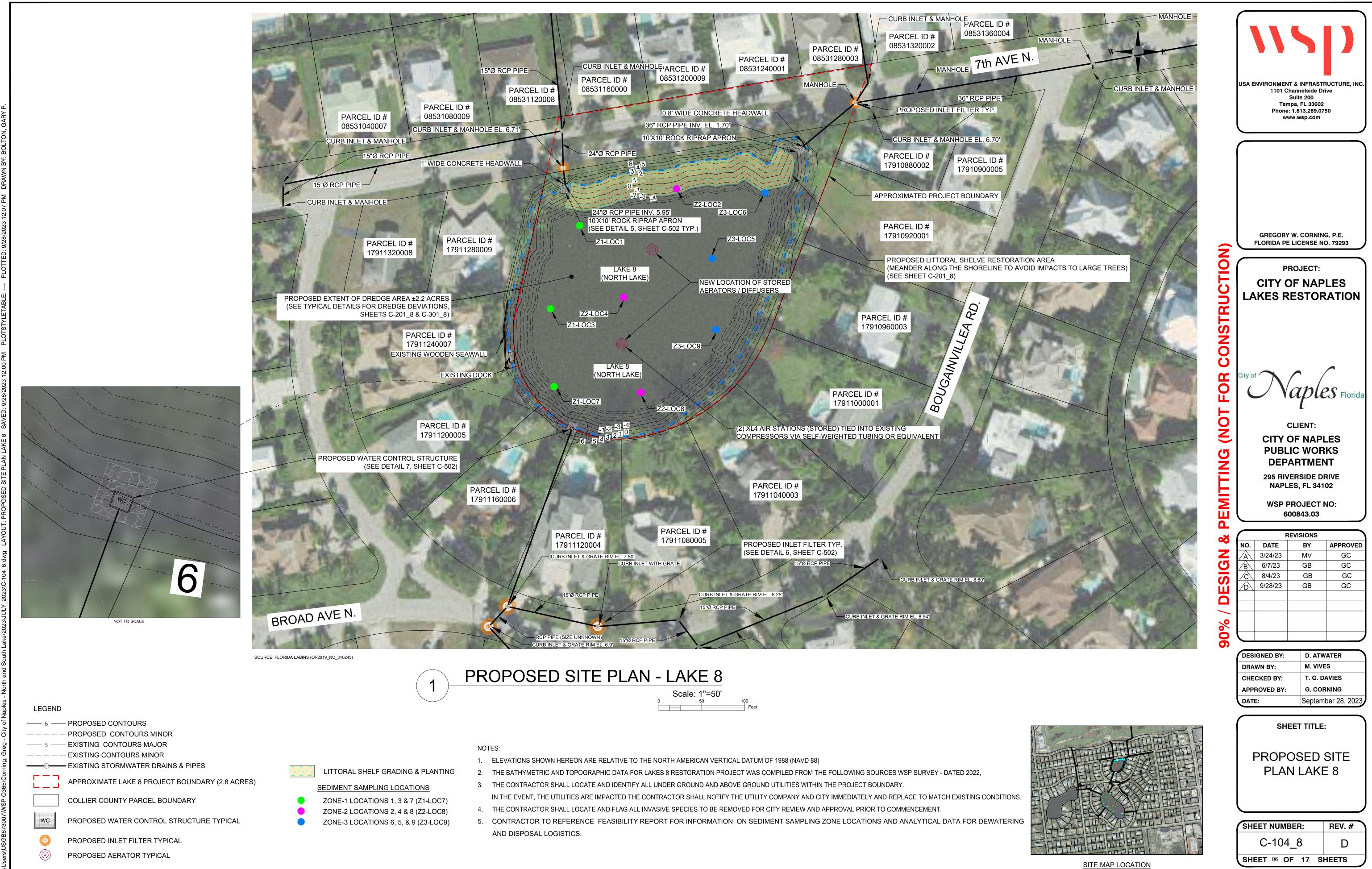
(D)	EXISTING STORI
	NORMAL LAKE V
\bigcirc	CONTROL POINT
	APPROXIMATE L
	COLLIER COUNT
	EXISTING AERAT
. عللد علاد علا علاد علاد علاد	INVASIVE SPECI

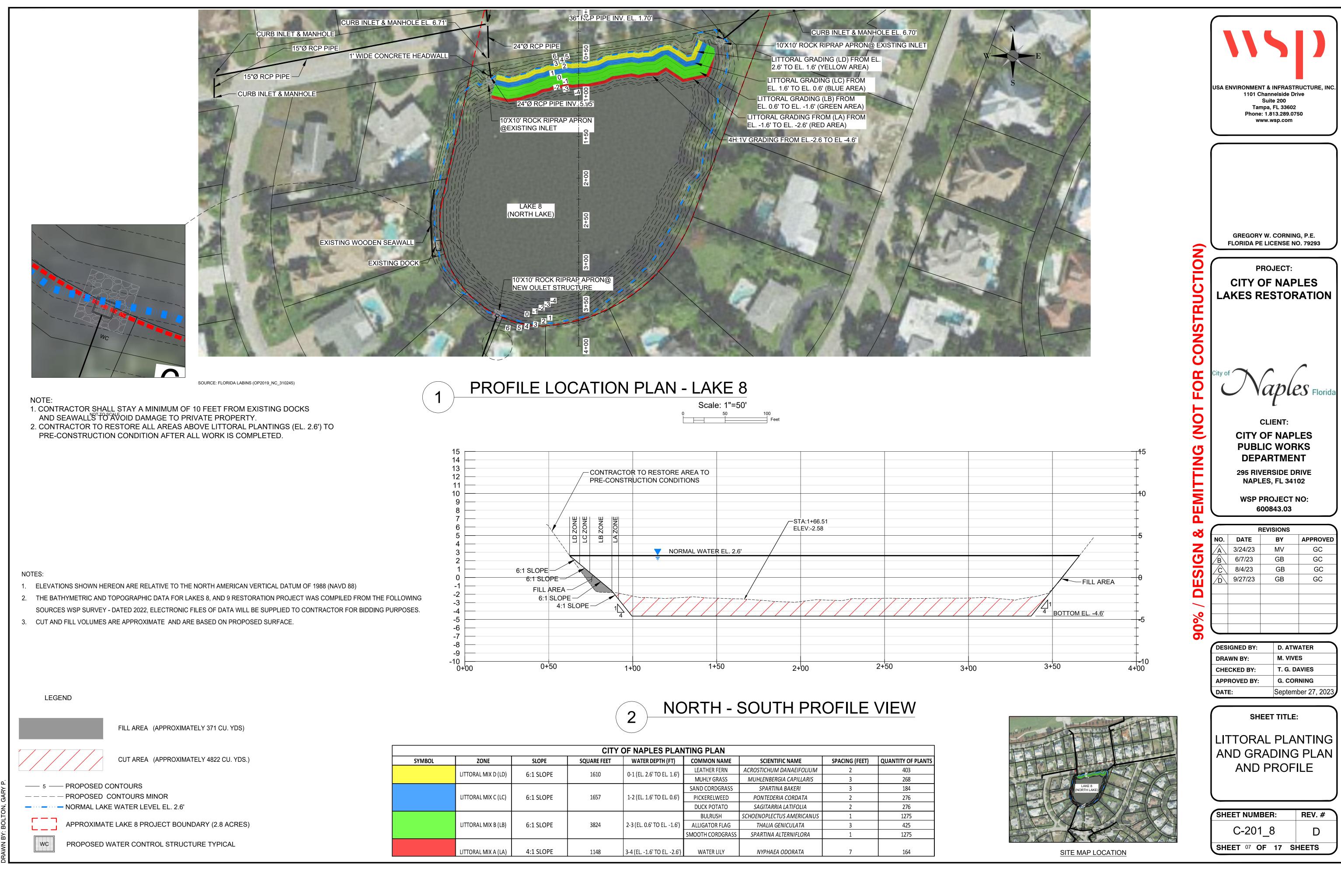
I.D.	NORTHING	EASTING	ELEV.	DESCRIPTION
CP-1	662961.069	393386.528	7.80'	IRON ROD & CAP STAMPED "TRAVERSE"
CP-2	663158.479	393193.812	7.18'	MAG NAIL E.F. GAINES LS 4576
CP-3	663039.773	392599.265	7.43'	DSK NAIL E.F. GAINES LS 4576 NLD
CP-4	662493.003	392492.566	7.18'	DSK NAIL
BM-191	662624.93	396219.28	6.00'	5/8" IRON ROD & CAP
BM-192	662592.66	395943.02	6.20'	5/8" IRON ROD & CAP
BM-204	657635.89	393659.64	3.30'	5/8" IRON ROD & CAP
CP-5	658801.610	395120.238	6.37'	*SSR W/CAP 3" IN BRASS USGS V241 1965 (PID:AD1256)

SITE MAP LOCATION

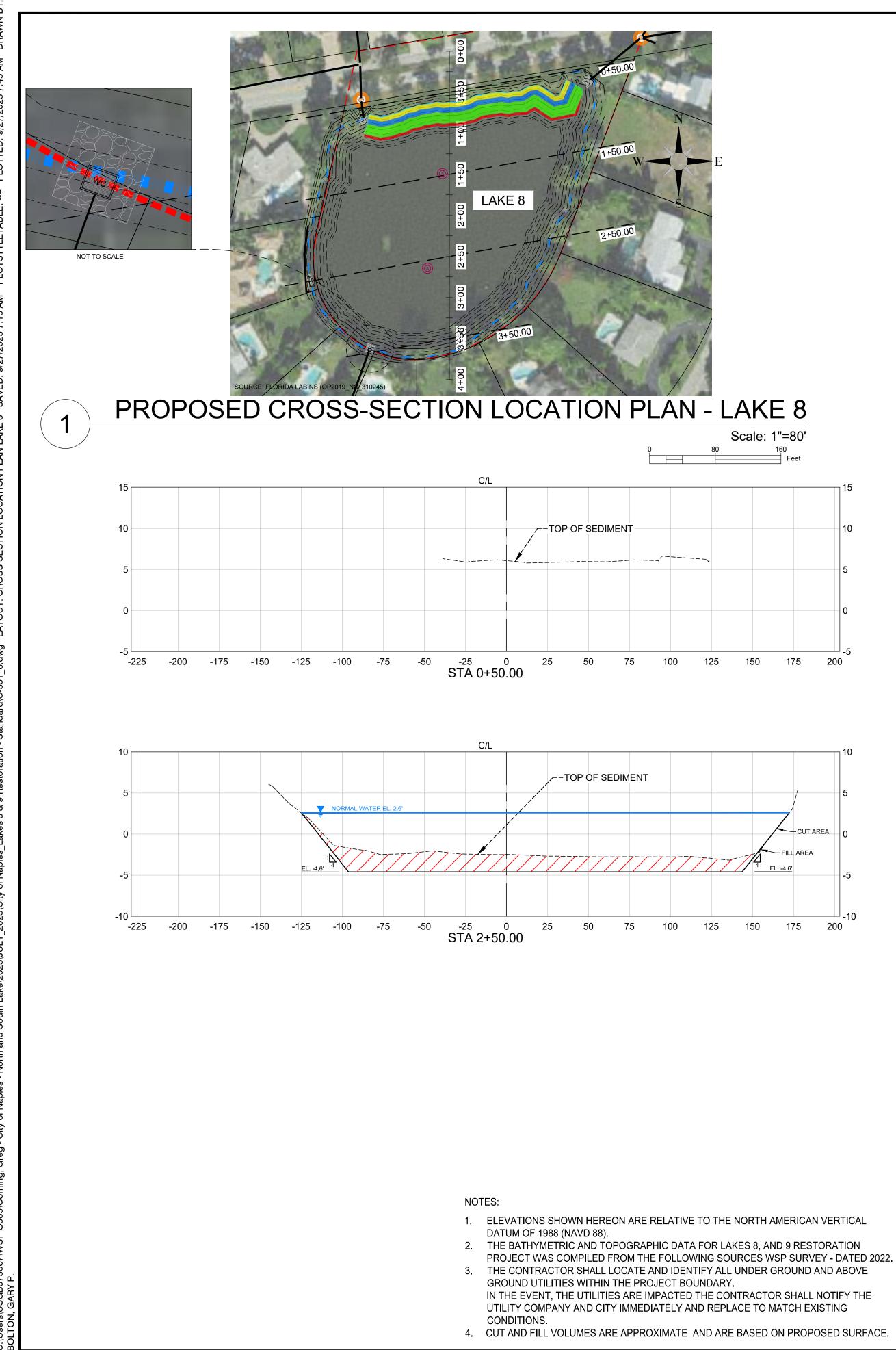




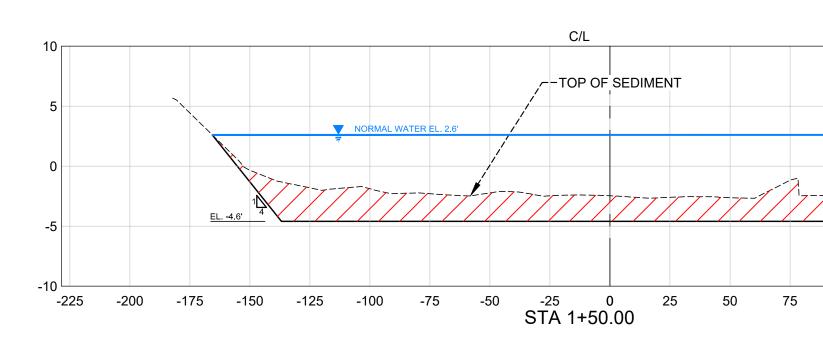


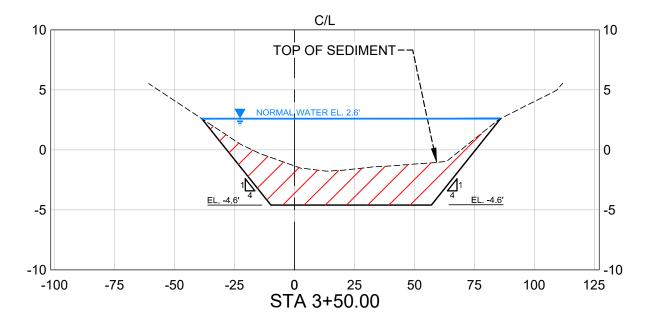


CITY OF NAPLES PLANTING PLAN								
ZONE	SLOPE	SQUARE FEET	WATER DEPTH (FT)	COMMON NAME	SCIENTIFIC NAME	SPACING (FEET)	QUANTITY OF PLANTS	
ITTORAL MIX D (LD)	6:1 SLOPE	1610	0-1 (EL. 2.6' TO EL. 1.6')	LEATHER FERN	ACROSTICHUM DANAEIFOLIUM	2	403	
	0.1 SLOPL	1010	0-1 (EL. 2.0 TO EL. 1.0)	MUHLY GRASS	MUHLENBERGIA CAPILLARIS	3	268	
				SAND CORDGRASS	SPARTINA BAKERI	3	184	
ITTORAL MIX C (LC)	6:1 SLOPE	1657	1-2 (EL. 1.6' TO EL. 0.6')	PICKERELWEED	PONTEDERIA CORDATA	2	276	
				DUCK POTATO	SAGITARRIA LATIFOLIA	2	276	
				BULRUSH	SCHOENOPLECTUS AMERICANUS	1	1275	
ITTORAL MIX B (LB)	6:1 SLOPE	3824	2-3 (EL. 0.6' TO EL1.6')	ALLIGATOR FLAG	THALIA GENICULATA	3	425	
				SMOOTH CORDGRASS	SPARTINA ALTERNIFLORA	1	1275	
ITTORAL MIX A (LA)	4:1 SLOPE	1148	3-4 (EL1.6' TO EL2.6')	WATER LILY	NYPHAEA ODORATA	7	164	



	CITY OF NAPLES PLANTING PLAN								
SYMBOL	ZONE	SLOPE	SQUARE FEET	WATER DEPTH (FT)	COMMON NAME	SCIENTIFIC NAME			
	LITTORAL MIX D (LD)	6:1 SLOPE	1610	0-1 (EL. 2.6' TO EL. 1.6')	LEATHER FERN	ACROSTICHUM DANAEIFOLIUM			
		0.1 SLOPE	1010	0-1 (EL. 2.0 TO EL. 1.0)	MUHLY GRASS	MUHLENBERGIA CAPILLARIS			
					SAND CORDGRASS	SPARTINA BAKERI			
	LITTORAL MIX C (LC)	6:1 SLOPE	1657	1-2 (EL. 1.6' TO EL. 0.6')	PICKERELWEED	PONTEDERIA CORDATA			
					DUCK POTATO	SAGITARRIA LATIFOLIA			
					BULRUSH	SCHOENOPLECTUS AMERICANUS			
	LITTORAL MIX B (LB)	6:1 SLOPE	3824	2-3 (EL. 0.6' TO EL1.6')	ALLIGATOR FLAG	THALIA GENICULATA			
					SMOOTH CORDGRASS	SPARTINA ALTERNIFLORA			
	LITTORAL MIX A (LA)	4:1 SLOPE	1148	3-4 (EL1.6' TO EL2.6')	WATER LILY	NYPHAEA ODORATA			





LEGEND



FILL AREA (APPROXIMATELY 371 CU. YDS)



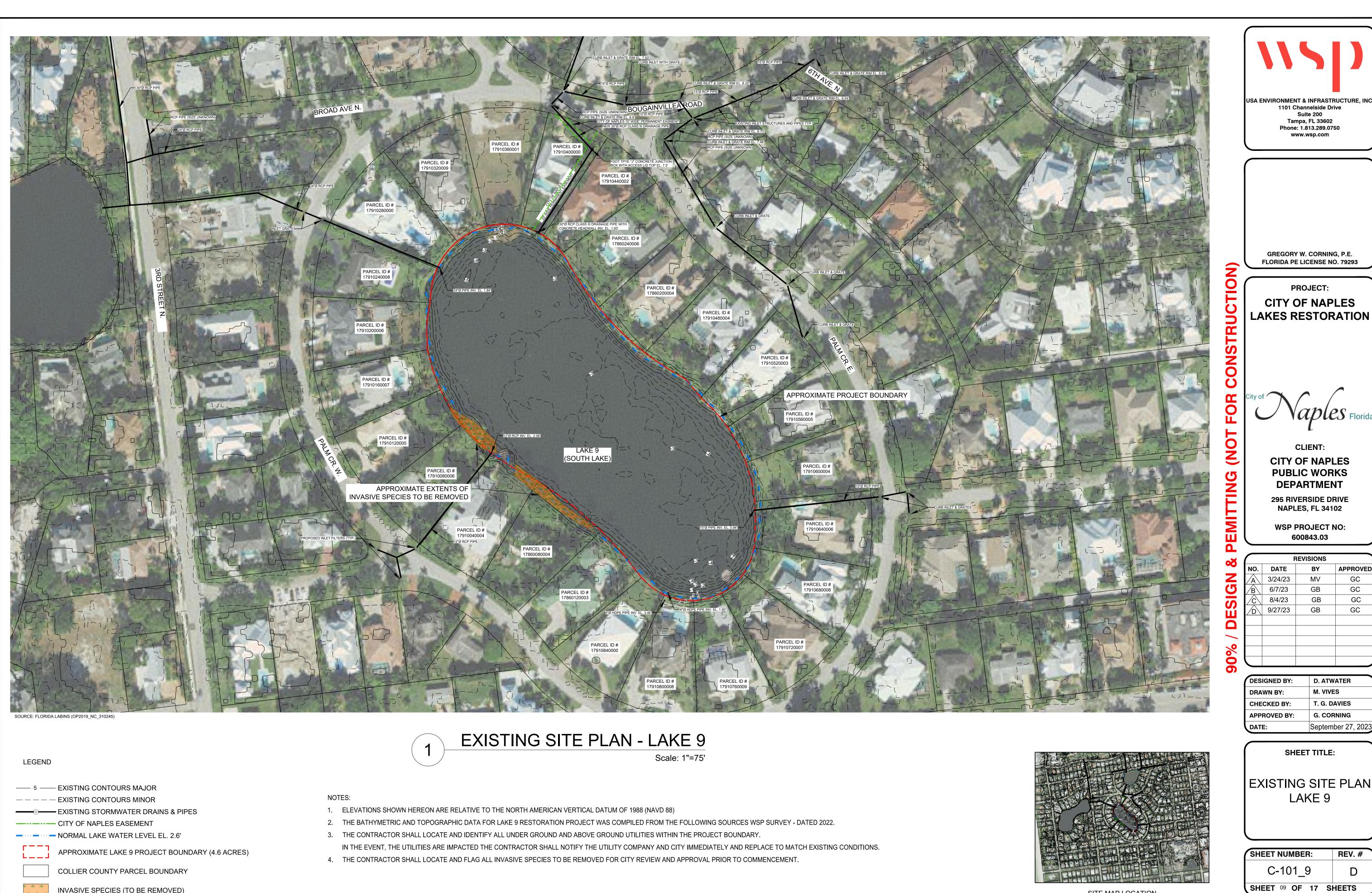
CUT AREA (APPROXIMATELY 4822 CU. YDS.)

5
 -
WC
F

 \bigcirc

PROPOSED CONTOURS PROPOSED CONTOURS MINOR NORMAL LAKE WATER LEVEL EL. 2.6' APPROXIMATE LAKE 8 PROJECT BOUNDARY (2.8 ACRES) PROPOSED WATER CONTROL STRUCTURE PROPOSED INLET FILTER TYPICAL PROPOSED AERATOR

ME EIFOLIUM PILLARIS ERI	SPACING (FEET) 2 3 3 3	QUANTITY OF PLANTS 403 268 184 276			Tam Phone:	T & INFRAST nannelside D Suite 200 pa, FL 33602 1.813.289.0 /w.wsp.com	Drive
DATA FOLIA	2	276 276		(\frown
IERICANUS .ATA	1 3	1275 425					
IFLORA	1	1275					
ATA	7	164					
75 10		Image: mail of the second system 10 5 0 5 -5 50 175 200	PEMITTING (NOT FOR CONSTRUCTION)		FLORIDA PE PI CITY C LAKES R City of O CITY C PUBL DEP 295 RIV NAPL WSP P	ROJECT: OF NAF ESTOI	PLES RATION CS Florida
			જ	ð f	NO. DATE	EVISIONS BY	APPROVED
			Z		A 3/24/23	MV	GC
			ESIGN	2	B 6/7/23	GB	GC
			C.	?	C 8/4/23 D 9/27/23	GB GB	GC GC
			L C	5 t			
			/ %06	e			
			Č				
			O	,	DESIGNED BY:		WATER
				f	DESIGNED BY:	M. VIV	
				ŀ	CHECKED BY:		DAVIES
				ŀ	APPROVED BY:		ORNING
				t	DATE:		mber 27, 2023
					=		
K C-				(SHE	EET TITLE	⊧)
	TUTTT		TTT P		CROSS		
					LOCA	FION F	PLAN
	HE	うての法理			L	AKE 8	
	U BO					_ •	
田下	THEE		曲百二	l			ļ
TK	大田町	A State	E	1			
	YA AHHR	KUVAILL		(SHEET NUME	BER:	REV. #
					C-301	8	D
			I				_
	SITE M	IAP LOCATION		ļ	SHEET 08 O	F 17 S	SHEETS



INVASIVE SPECIES (TO BE REMOVED)

SITE MAP LOCATION

LO Flori

APPROVED

GC

GC

GC

GC

BY

GB

GB

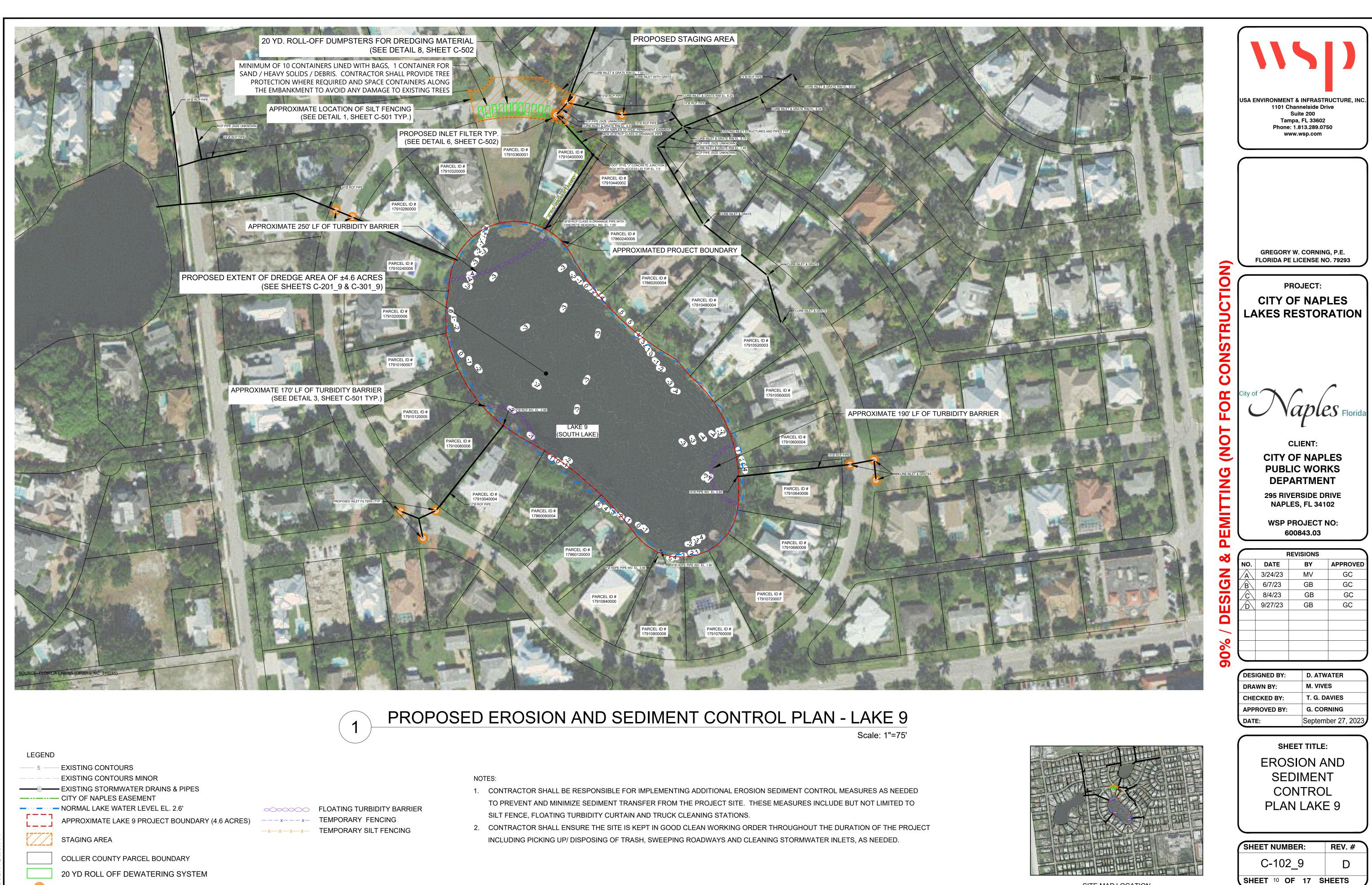
M. VIVES

T. G. DAVIES

G. CORNING

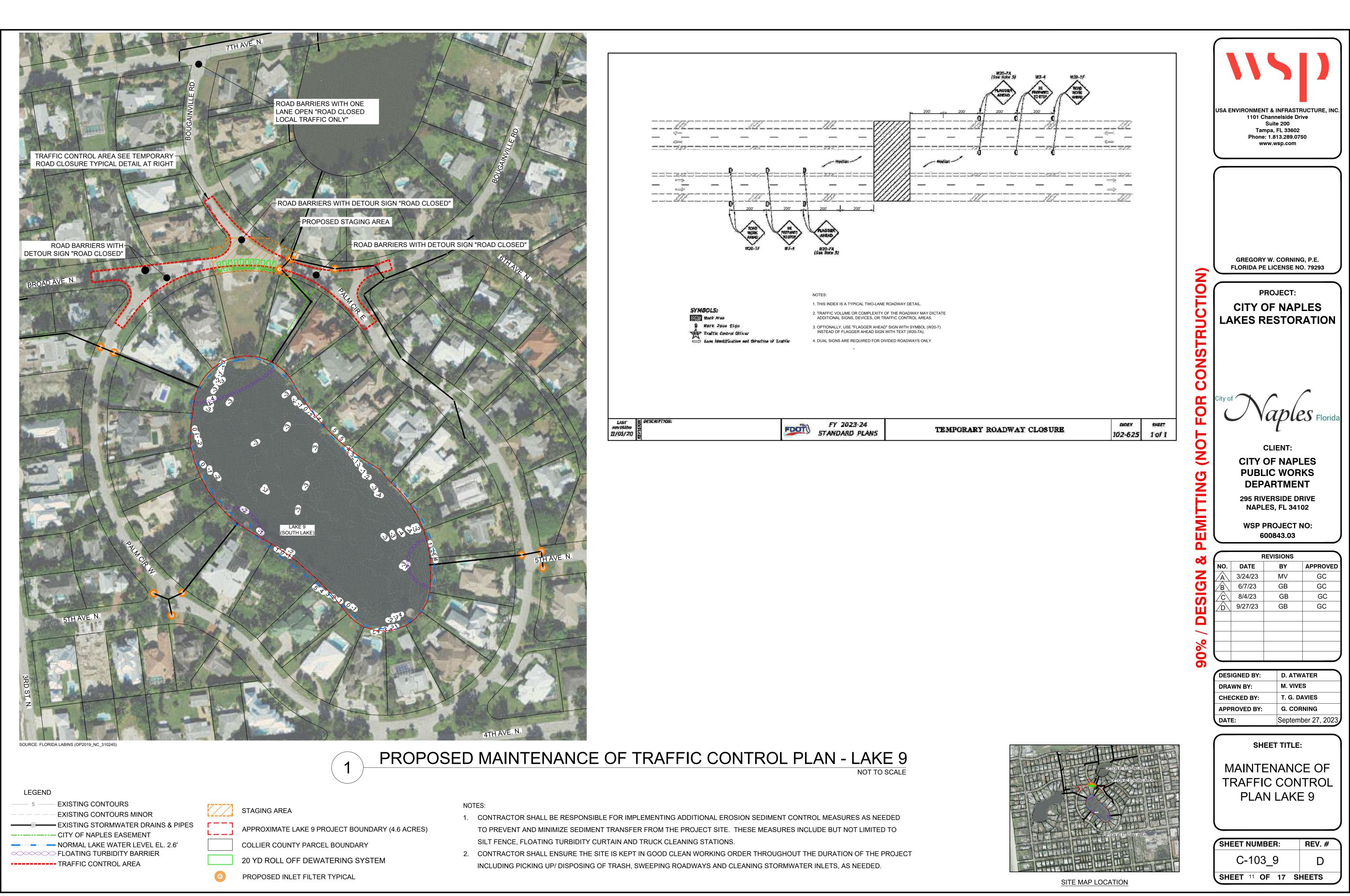
REV. #

D

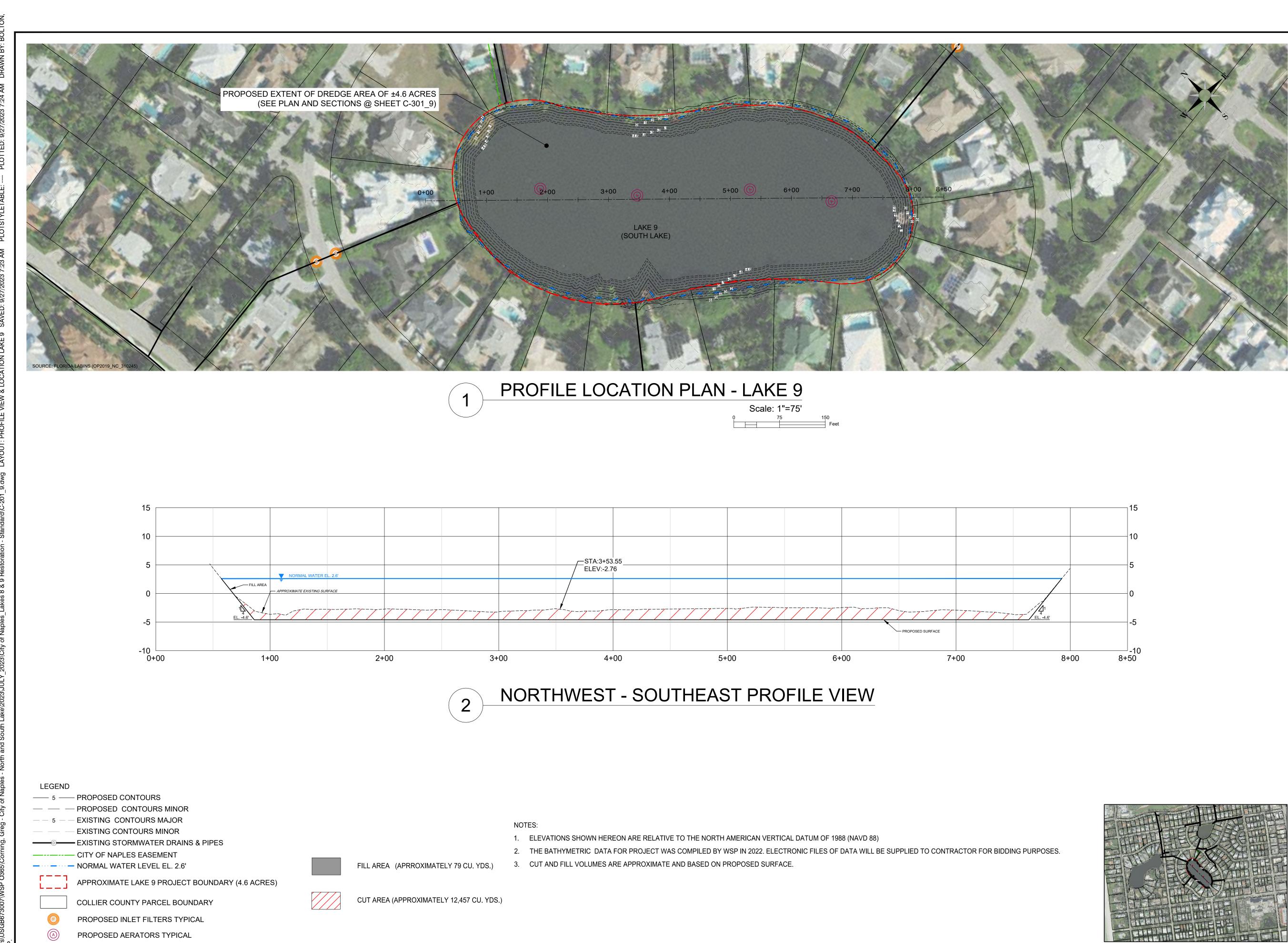


PROPOSED INLET FILTER TYPICAL

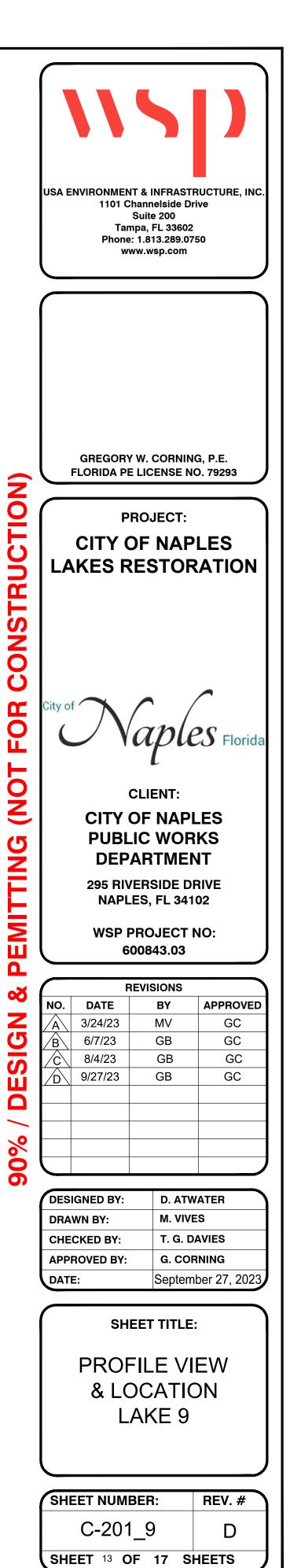
SITE MAP LOCATION

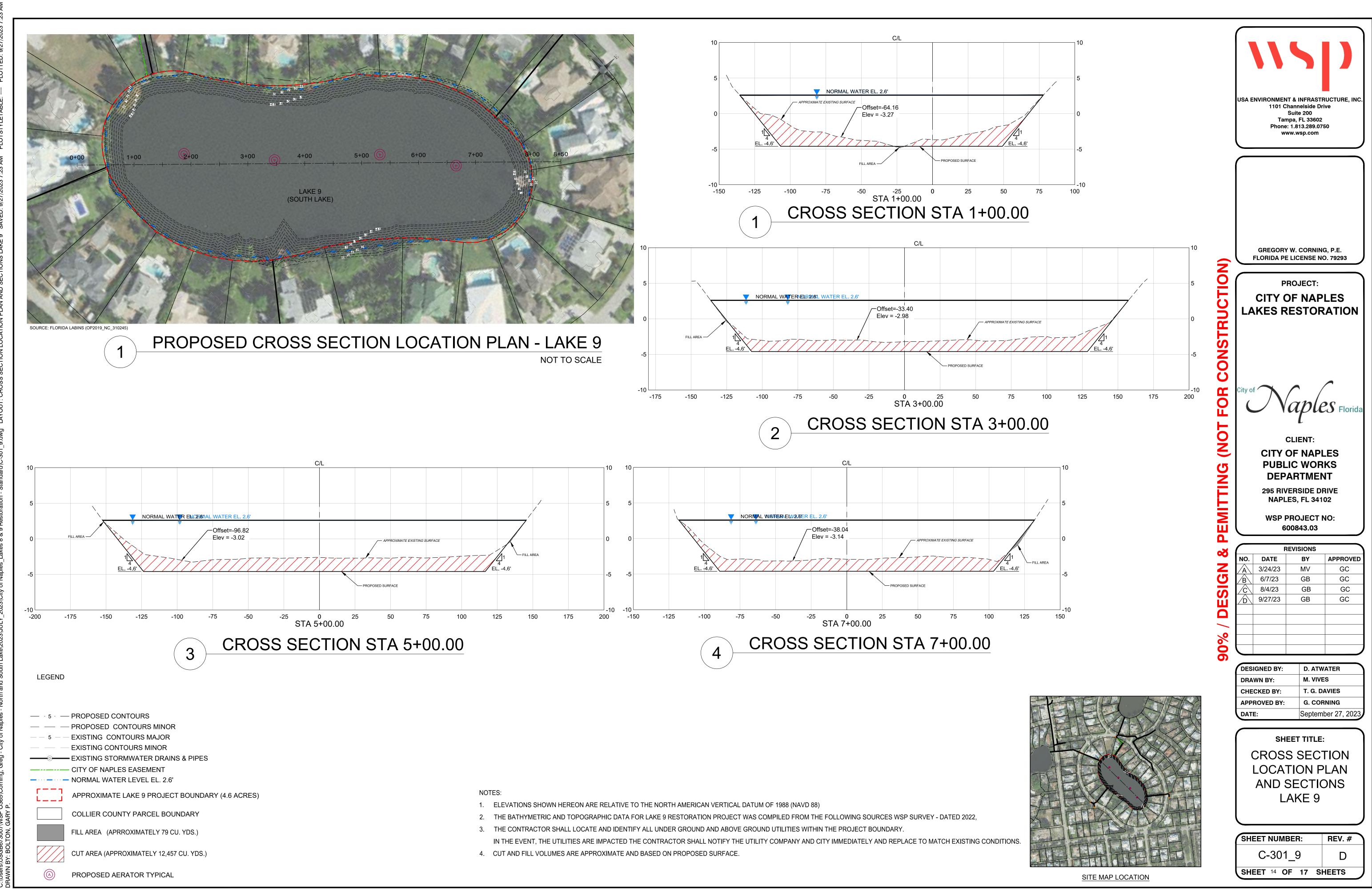


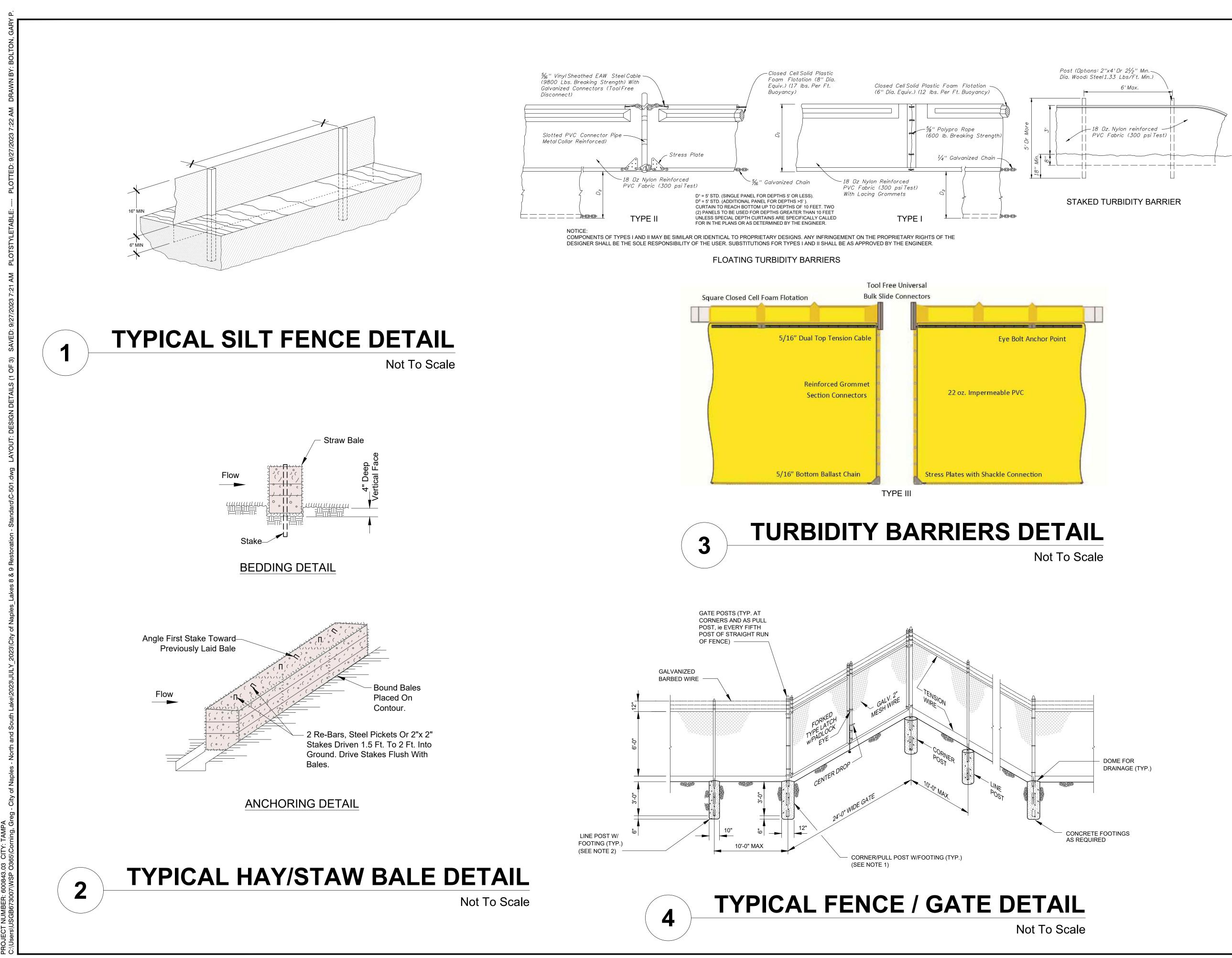


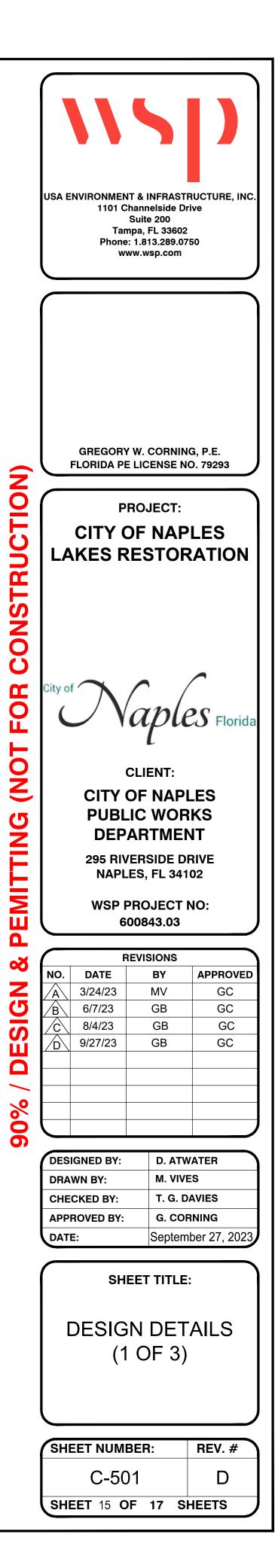


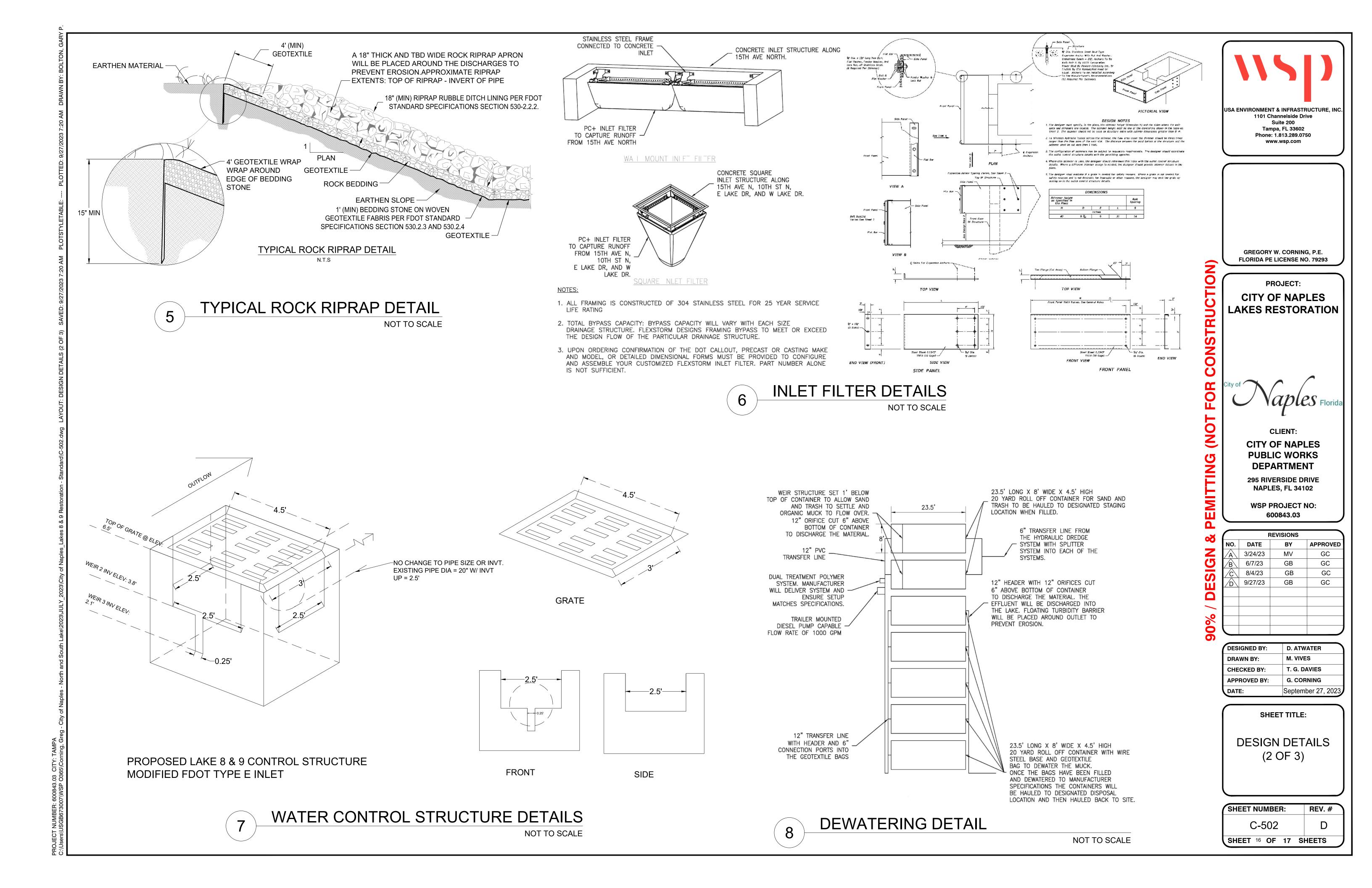
SITE MAP LOCATION

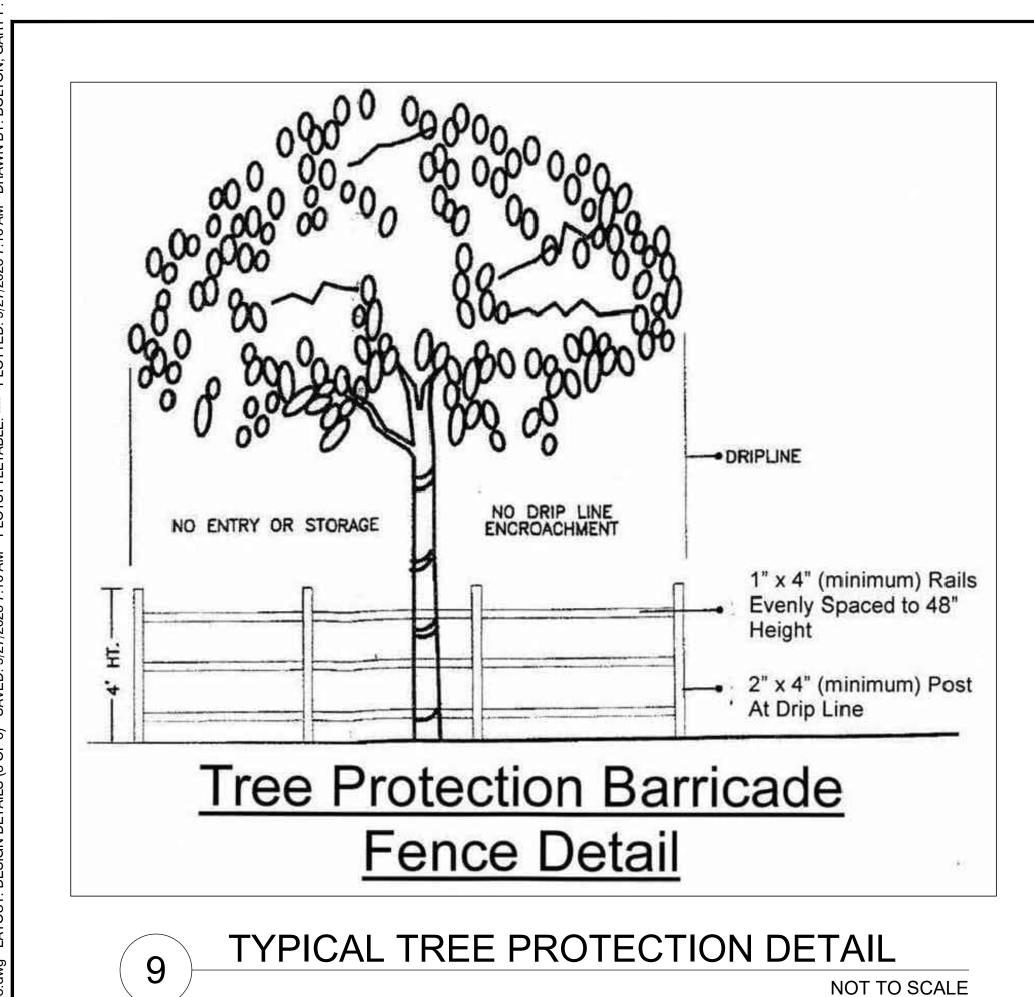












NOTES:

LAKE 8 - NORTH LAKE HAS THE POTENTIAL TO SEVERELY IMPACT THE CITY OWNED TREES IN THE RIGHT OF WAY AND THE MEDIAN ON THE SECTION OF 7TH AVE NORTH SHOWN ON THE PLANS.

1. TREE PROTECTION SHALL BE REQUIRED FOR THE CITY OWNED AND MANAGED TREES (SEE CITY OF NAPLES ORDINANCE 2020-14460.)

2. THE CITY ARBORIST SHALL BE NOTIFIED OF THE PRE-CONSTRUCTION MEETING.

3. ANY CITY IRRIGATION WITHIN THE ROW AND/OR MEDIAN SHALL REMAIN ACTIVE DURING THE PROJECT.

CITY OF NAPLES CHAPTER 38 - TREE PROTECTION SEC. 38-106. - PROTECTION OF CITY TREES.

REQUIREMENTS FOR UTILITY PRUNING. UTILITIES MUST CONFORM TO CURRENT ANSI A300 STANDARDS WHEN PERFORMING LINE CLEARING WORK IN CANOP STREET ZONES TO BALANCE THE REQUIREMENT TO PRESERVE THE CANOPY AND MAINTAIN SAFE, RELIABLE ELECTRIC SERVICE.

- (1. FRANCHISED UTILITIES MUST NOTIFY THE DEPARTMENT BY E-MAIL OR MAIL 30 BUSINESS DAYS PRIOR TO ANY MAINTENANCE UTILITY LINE CLEARING WORK CANOPY STREETS.
- (2. FRANCHISED UTILITIES MUST HAVE AN ISA CERTIFIED ARBORIST DIRECTING THE PRUNING OF TREES IN A CANOPY STREET.
- (3. UTILITY PRUNING SHOULD ONLY PROVIDE MINIMUM SAFE CLEARANCE TO PROTECT ENERGIZED POWER LINES WITH CONSIDERATION FOR THE COMBINED MOVEMENT OF THE CONDUCTORS NEAR TREES IN SEVERE WEATHER, THE SPECIES OF THE TREE, AND THE VOLTAGE OF THE CONDUCTOR.
- (4. THE CITY RECOGNIZES THAT FLORIDA POWER AND LIGHT (FPL) HAS A RIGHT AND RESPONSIBILITY, AS PROVIDED BY FLORIDA STATE STATUTE AND ELECTR TARIFF RULES, TO CLEAR VEGETATION AWAY FROM POWER LINES IN ORDER TO ENSURE THE SAFE TRANSMISSION OF ELECTRICITY TO CUSTOMERS AND TO ABOVE-LISTED PROVISIONS ARE INTENDED TO BE COOPERATIVE EFFORTS BETWEEN THE CITY AND FPL. THIS SECTION DOES NOT APPLY TO THE EXTENT PREEMPTED BY F.S § 163.3209.

LOCATION OF CITY TREES. ALL CITY TREES THAT MAY BE DISTURBED BY PROPOSED ACTIVITIES MUST BE PHYSICALLY LOCATED ON-SITE AND SHOWN ON THE PLAN SUBMITTED FOR ANY PROJECT OR SITE DEVELOPMENT AND AS A PART OF THE TREE REMOVAL REQUEST IN THE TREE ALTERATION PERMIT APPLICATION PROCESS.

DRIP LINE PRESERVATION. DURING DEVELOPMENT, CONSTRUCTION ACTIVITY, AND UTILITY CONSTRUCTION, THE CRITICAL ROOT ZONE OF A CITY TREE MUST SHALL BE PROTECTED FROM ACTIVITIES THAT MAY DISTURB OR INJURE THE TREE (SUCH AS CUT AND FILL ACTIVITIES, BUILDING PAD PLACEMENTS, ROAD BED CONSTRUCTION, CONSTRUCTION MATERIAL STORAGE, DRIVING OR PARKING OF EQUIPMENT, TRENCHING, ETC.). THE PERMIT APPLICANT MAY PROVIDE SPECI ARBORICULTURAL ANALYSIS TO DEMONSTRATE THAT THERE IS NO LIKELIHOOD OF ADVERSE IMPACT TO A CITY TREE; HOWEVER, THE DEPARTMENT WILL MAK THE SOLE DETERMINATION OF WHERE TREE PROTECTION BARRIERS MUST BE PLACED AROUND A TREE.

CANOPY AND ROOT PRUNING. WHEN ACTIVITIES DISTURB THE AREA WITHIN THE DRIP LINE OF A CITY TREE, OR WHEN PRUNING MUST BE PERFORMED ON THE CROWN OF A CITY TREE, THE FOLLOWING ARBORICULTURAL TECHNIQUES ARE REQUIRED:

- (1. WHEN THE TREE ROOTS WITHIN THE DRIP LINE MAY BE DISTURBED, THE AFFECTED ROOTS MUST BE SEVERED BY CLEAN PRUNING CUTS WHERE THE ACTIV IMPACTS THE ROOTS. ROOT PRUNING MUST BE COMPLETED BY AN ISA CERTIFIED ARBORIST. ROOTS CAN BE PRUNED BY UTILIZING TRENCHING EQUIPMEN THAT IS SPECIFICALLY DESIGNED FOR THIS PURPOSE OR BY HAND DIGGING A TRENCH AND PRUNING ROOTS WITH A CHAIN SAW, PRUNING SAW OR OTHER EQUIPMENT DESIGNED FOR TREE PRUNING. ROOTS WITHIN THE DRIP LINE MUST BE PRUNED TO A DEPTH OF 12 INCHES BELOW EXISTING GRADE OR TO TH DEPTH OF THE DISTURBANCE IF LESS THAN 12 INCHES FROM THE EXISTING GRADE. WHEN UNDERGROUND UTILITIES ARE TO BE INSTALLED THROUGH THE LINE, ROOT PRUNING REQUIREMENTS MAY BE WAIVED IF THE LINES ARE INSTALLED VIA TUNNELING OR DIRECTIONAL BORING AS OPPOSED TO TRENCHING
 (2. ALL PRUNING OF CITY TREES MUST CONFORM TO THE CURRENT ANSI A300 STANDARDS AND BE COMPLETED BY AN ISA CERTIFIED ARBORIST. THERE WILL
- (2. ALL PRUNING OF CITY TREES MUST CONFORM TO THE CURRENT ANSI A300 STANDARDS AND BE COMPLETED BY AN ISA CERTIFIED ARBORIST. THERE WILL NO STUB CUTS, OR LIONS-TAILING OF THE CROWN OF THE TREE.
- (3. IT WILL BE A VIOLATION OF THIS SECTION TO PERFORM THE TECHNIQUES OF TOPPING OR OTHER PRUNING TECHNIQUES THAT REMOVE THE VERTICAL LEAD STEMS OR OTHER PRUNING THAT RESULTS IN AN UNNECESSARY REDUCTION OF SHADE OF CITY TREES IN THE PERMIT AREA.

TREE PROTECTION BARRIER REQUIREMENTS. DURING DEVELOPMENT ACTIVITIES OR ANY OTHER POTENTIAL DISTURBANCE THAT WILL IMPACT THE AREA WITHIN THE DRIP LINE OF ANY CITY TREE, PROTECTIVE BARRIERS MUST BE PLACED AROUND EACH CITY TREE, BY THE APPLICANT, TO PREVENT THE DESTRUCTION OR DAMAGING OF ROOTS, STEMS, OR CROWNS OF SUCH TREES. BARRIERS MUST REMAIN IN PLACE AND INTACT UNTIL THE WORK IS COMPLETED, HOWEVER, BARRIERS MAY BE REMOVED TEMPORARILY TO ACCOMMODATE CONSTRUCTION NEEDS, PROVIDED THE CITY APPROVES THE TEMPORARY REMOVAL IN WRITING AND THAT THE MANNER AND PURPOSE FOR SUCH TEMPORARY REMOVAL WILL NOT HARM THE TREE. THE CITY RESERVES THE RIGHT TO DENY THE TEMPORARY REMOVAL OF TREE PROTECTION BARRIERS. THE FOLLOWING ARE THE MINIMUM REQUIREMENTS FOR PROTECTIVE BARRIERS:

- (1) PROTECTIVE POSTS MUST BE PLACED SO AS TO PROTECT ALL AREAS WITHIN THE DRIP LINE BOUNDARY FOR EACH CITY TREE AFFECTED, EXCEPT IN RIGHT-OF-WAY OR UTILITY PLACEMENT AREAS WHERE SPACE TO INSTALL THE BARRICADE MAY BE LIMITED, POSTS MAY BE PLACED SO AS TO PROTECT A MINIMUM OF 50 PERCENT OF THE AREA WITHIN THE DRIP LINE APPROVED BY THE CITY MANAGER.
- (2) POSTS MUST BE A MINIMUM OF TWO INCHES BY FOUR INCHES, OR LARGER, WOODEN POST, TWO-INCH OUTER DIAMETER OR LARGER, OR OTHER POST MATERIAL OF EQUIVALENT SIZE; WILL BE CONNECTED WITH A MINIMUM OF AT LEAST A ONE INCH BY FOUR-INCH WOODEN BOARD RAIL; AND WILL BE CLEAR FLAGGED. THE MAXIMUM DISTANCE ALLOWED BETWEEN UPRIGHT POSTS IS EIGHT FEET. WOODEN POSTS AND BOARDS MUST BE PAINTED FOREST GREEN ONCE INSTALLED.
- (3) POSTS MUST BE IMPLANTED DEEP ENOUGH INTO THE GROUND TO BE STABLE AND EXTEND A MINIMUM HEIGHT OF FOUR FEET ABOVE THE GROUND.
- (4) WHERE DEVELOPMENT ACTIVITY IS PERMITTED WITHIN 50 PERCENT OF THE RADIUS WITHIN THE AREA OF THE DRIP LINE OF A CITY TREE (AS MEASURED BY THE LONGEST RADIUS FROM TRUNK TO DRIP LINE), THE DEPARTMENT MAY REQUIRE ADDITIONAL TREE PROTECTION PROVISIONS BE INCORPORATED IN TH ACTIVITY PERMIT.
- (5) NO STORAGE OR MOVEMENT OF EQUIPMENT, MATERIAL, DEBRIS, OR FILL SOIL IS ALLOWED WITHIN THE DRIP LINE OF ANY CITY TREE.
- (6) NO EQUIPMENT WILL BE CLEANED, OR WASTE MATERIALS SUCH AS PAINTS, OILS, SOLVENTS, ASPHALT, CONCRETE, MORTAR, OR ANY OTHER MATERIAL WIL STORED, WITHIN THE DRIP LINE OF ANY CITY TREE.
- (7) NO DAMAGING WIRES, SIGNS OR PERMITS WILL BE FASTENED TO ANY CITY TREE UNLESS APPROVED BY THE DEPARTMENT.
- (8) SILT BARRIERS, HAY BALES, OR SIMILAR EFFECTIVE EROSION SILT CONTROL BARRIERS WILL BE REQUIRED IN ANY AREA WHERE EROSION OR SILTATION MA CAUSE DAMAGE TO CITY TREES AS DETERMINED SOLELY BY THE DEPARTMENT.
- (9) WHEN ELEVATION CHANGES ARE PROPOSED WITHIN THE DRIP LINE OF ANY CITY TREE, THE APPLICANT WILL BE REQUIRED TO INSTALL RETAINING WALLS OF DRAIN TILES. THE APPLICANT WILL HAVE THE CHOICE OF THE TYPE OR DESIGN. THESE ROOT PROTECTION MEASURES MUST BE IN PLACE PRIOR TO THE DEPOSITION OF FILL, OR EXCAVATION OF SOIL FROM THE DRIP LINE.
- (10) SHOULD A PRIVATE PARTY CONDUCT WORK WITHIN THE DRIP LINE OF A CITY TREE AND FAIL TO INSTALL THE REQUIRED TREE PROTECTION BARRIER, THE OR RESERVES THE RIGHT TO INSTALL THE REQUIRED TREE PROTECTION BARRIER AND CHARGE THE PRIVATE PARTY CONDUCTING THE WORK FOR THE CITY'S MATERIALS AND LABOR ASSOCIATED WITH THE INSTALLING OF THE BARRICADE. A SAMPLE TREE PROTECTION BARRICADE IS SET OUT BELOW.

INSPECTIONS. THE DEPARTMENT WILL CONDUCT PERIODIC INSPECTIONS OF THE SITE DURING THE PERMITTED ACTIVITY IN ORDER TO ENSURE COMPLIANCE W THIS SECTION.

(a) THE CITY MANAGER IS AUTHORIZED TO ALLOW A VARIATION FROM THE STRICT REQUIREMENTS OF THIS SECTION WHERE AN EQUIVALENT OR SUPERIOR METHOD OF PRESERVING A TREE IS CLEARLY DEMONSTRATED.

(ORD. NO. <u>17-13971</u>, § 1, 6-7-2017; ORD. NO. <u>20-14460</u>, § 1, 3-4-2020)

PY			
K IN	USA	1101 Chan Suit Tampa, Phone: 1.8	INFRASTRUCTURE, INC. nelside Drive te 200 FL 33602 913.289.0750 vsp.com
RIC THE			
E SITE ON			
ED CIFIC			
AKE			CORNING, P.E.
	$\overline{\mathbf{r}}$	FLORIDA PE LIC	CENSE NO. 79293
1E	ā c		
	ΞI		JECT:
Ίνιτγ	5	CITY OF	NAPLES
NT R	→ L	AKES RE	STORATION
HE	<u> </u>		
E DRIP G.			
_ BE	CONSTRUCTION		
ADER	ŭ		
ADEN	City	of	
	City	N_{α}	nlas
HIN R	Ľ ľ		PLES Florida
	(NOT		L
NG RY	Ō	CLI	ENT:
	Z		NAPLES
			WORKS
	9		RTMENT
	\leq		
RLY			SIDE DRIVE , FL 34102
N			
	PEMITTING		DJECT NO: 343.03
		6000	943.03
3Y THE	∞	REVI	SIONS
	NO		BY APPROVED
		3/24/23 6/7/23	MV GC GB GC
		8/4/23	GB GC
/ILL BE		9/27/23	GB GC
ΛΑΥ	90% / DESIGN		
	<u>ک</u> ل		
OR			
		SIGNED BY:	D. ATWATER M. VIVES
		IECKED BY:	T. G. DAVIES
E CITY 'S		PROVED BY:	G. CORNING
		TE:	September 27, 2023
WITH			
	(SHEE	
			DETAILS
		(3 C	DF 3)
)
			R: REV. #
		C-503	D
	(si	HEET 17 OF	17 SHEETS