Sunshine
Water Control District

REGULAR MEETING AGENDA

January 8, 2020

December 30, 2019

ATTENDEES:
Please identify yourself each time you speak to facilitate accurate transcription of meeting minutes.

Board of Supervisors
Sunshine Water Control District

NOTE: Meeting Time

Dear Board Members:

The Board of Supervisors of the Sunshine Water Control District will hold a Regular Meeting on January 8, 2020, at 6:30 p.m., at Sartory Hall, located in Mullins Park, 10150 NW 29 St. (Ben Geiger Drive), Coral Springs, Florida 33065. The agenda is as follows:

1. Call to Order
2. Roll Call
3. Pledge of Allegiance
4. Public Comments **[3-Minute Time Limit]** *(Comments should be made from the microphone to ensure recording. Please state your name prior to speaking.)*
5. Acceptance of Unaudited Financial Statements as of November 30, 2019
6. Approval of December 4, 2019 Regular Meeting Minutes
7. Public Comments
8. Supervisors' Communications
9. Staff Reports
   - A. District Counsel: *Lewis, Longman & Walker, P.A.*
   - B. District Engineer: *Craig A. Smith & Associates*
     - I. Presentation: Monthly Report
       - a. Proposed Capital Projects
       - b. Permit Applications
         - FPL Pole Replacement
   - C. District Engineering Consultant: *John McKune*
   - D. District Field Supervisor: *Cory Selchan*

E. District Manager: *Wrathell, Hunt & Associates, LLC*

- NEXT MEETING DATE: February 12, 2020 at 6:30 P.M.
  - QUORUM CHECK

Joe Morera	☐ **YES**	☐ **NO**	☐ **PHONE**
Daniel Prudhomme	☐ **YES**	☐ **NO**	☐ **PHONE**
John Tornincasa	☐ **YES**	☐ **NO**	☐ **PHONE**

10. Adjournment

Should you have any questions, please contact me directly at (561) 346-5294.

Sincerely,

Cindy Cerbone

Cindy Cerbone
District Manager

FOR BOARD MEMBERS AND STAFF TO ATTEND BY TELEPHONE
CALL-IN NUMBER: 1-888-354-0094
CONFERENCE ID: 8518503

SUNSHINE
WATER CONTROL DISTRICT

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SUNSHINE
WATER CONTROL DISTRICT
FINANCIAL STATEMENTS
UNAUDITED
NOVEMBER 30, 2019

SUNSHINE
WATER CONTROL DISTRICT
BALANCE SHEET
GOVERNMENTAL FUNDS
NOVEMBER 30, 2019

	General Fund	Debt Service Fund Series 2011	Debt Service Fund Series 2018	Total Governmental Funds
ASSETS				
Stonegate Bank	$ 480,246	$ -	$ -	$ 480,246
Stonegate Bank - escrow	80,685	-	-	80,685
Investments				
State Board of Administration				
A Investment account	5,074	-	-	5,074
A Bank maintenance reserve account	2,658	-	-	2,658
A Renewal & replacement reserve account	1,978	-	-	1,978
A Equipment replacement reserve account	209	-	-	209
Centennial Bank - MMA	257,973	-	-	257,973
FineMark Bank - MMA	249,123	-	-	249,123
FineMark Bank - ICS	3,888,195	-	-	3,888,195
Iberia Bank - MMA	5,527	-	-	5,527
Debt service - Wells Fargo	-	61	-	61
Debt service - Regions	-	-	2,109	2,109
Reserve - Wells Fargo	-	83	-	83
Cost of issuance	-	-	63	63
Due from general fund	-	-	61,636	61,636
Total assets	$ 4,971,668	$ 144	$ 63,808	$ 5,035,620
LIABILITIES				
Liabilities:				
Accounts payable	$ 5,623	$ -	$ -	$ 5,623
Due to debt service	61,636	-	-	61,636
Deposits payable/trash bonds	122,000	-	-	122,000
Cost recovery deposits	20,104	-	-	20,104
Total liabilities	209,363	-	-	209,363
FUND BALANCES				
Assigned:				
3 months working capital	834,232	-	-	834,232
Disaster recovery	3,000,000	-	-	3,000,000
Truck replacement	94,000	-	-	94,000
Restricted for				
Debt service	-	144	63,808	63,952
Unassigned	834,073	-	-	834,073
Total fund balances	4,762,305	144	63,808	4,826,257
Total liabilities and fund balances	$ 4,971,668	$ 144	$ 63,808	$ 5,035,620

SUNSHINE
WATER CONTROL DISTRICT
STATEMENT OF REVENUES, EXPENDITURES,
AND CHANGES IN FUND BALANCES
GENERAL FUND
FOR THE PERIOD ENDED NOVEMBER 30, 2019

	Current Month	Year to Date	Adopted Budget	% of Budget
REVENUES				
Assessments	$ 347,036	$ 347,036	$ 3,163,704	11%
Interest and miscellaneous	1,873	3,989	9,000	44%
Permit review fees	700	2,100	3,150	67%
Cost recovery	-	-	17,500	0%
Total revenues	349,609	353,125	3,193,354	11%
EXPENDITURES				
Administrative				
Supervisors	150	250	1,800	14%
Supervisors reimbursement	-	-	7,500	0%
Management/accounting/recording	5,062	10,124	60,745	17%
DSF & CPF accounting	1,183	2,365	14,190	17%
Dissemination fee	83	167	1,000	17%
Arbitrage rebate calculation	-	-	750	0%
Trustee	-	-	3,000	0%
Audit	-	-	11,000	0%
Legal	3,654	3,654	120,000	3%
Legal-litigation	53,525	53,525	300,000	18%
Human resource services	582	1,164	6,983	17%
Communication	-	-	7,500	0%
Dues/subscriptions	-	4,175	4,500	93%
Rent - operations facility	7,427	7,427	44,537	17%
Insurance	-	21,500	23,000	93%
Legal advertising	148	148	2,500	6%
Office supplies and expenses	139	139	1,500	9%
Postage	2	65	1,200	5%
Postage-ROW clearing	-	-	500	0%
Printing and binding	117	234	1,400	17%
Website	-	-	3,000	0%
ADA website compliance	-	-	200	0%
Contingencies	-	134	1,175	11%
Total administrative expenses	72,072	105,071	617,980	17%
Field operations				
Salaries and wages	25,429	64,639	417,500	15%
FICA taxes	1,960	4,960	31,939	16%
Special pay	189	189	1,650	11%
Bonus program	-	-	1,000	0%
401a retirement plan	2,329	5,933	41,750	14%
Health insurance	14,340	28,618	248,602	12%
Workers' compensation insurance	-	13,425	21,000	64%
Engineering	-	-	60,000	0%
Engineering - capital outlay	-	-	200,000	0%

SUNSHINE
WATER CONTROL DISTRICT
STATEMENT OF REVENUES, EXPENDITURES,
AND CHANGES IN FUND BALANCES
GENERAL FUND
FOR THE PERIOD ENDED NOVEMBER 30, 2019

	Current Month	Year to Date	Adopted Budget	% of Budget
Consulting engineer services	-	-	25,000	0%
Cost recovery	-	552	17,500	3%
Water quality testing	-	-	5,224	0%
Telephone	141	141	1,800	8%
Electric	11,261	11,261	85,000	13%
Insurance	(974)	36,051	38,000	95%
Repairs and maintenance				
Canal banks	-	-	20,000	0%
Canal dredging	-	-	50,000	0%
Culvert inspection & cleaning	-	-	100,000	0%
Dumpster service	809	809	13,000	6%
Truck & tractor	83	252	21,000	1%
Other	-	6,868	21,000	33%
Operating supplies				
Chemicals	-	17,841	90,000	20%
Fuel	820	820	20,000	4%
Fuel-pump station generator	-	-	35,000	0%
Triploid carp	-	-	19,755	0%
Uniforms	111	185	3,217	6%
Other	765	915	4,000	23%
Permit fees, licenses, schools	-	-	5,000	0%
Capital outlay - other	-	-	975,000	0%
Field equipment	-	-	35,000	0%
Pump station telemetry	122	268	40,000	1%
Contingencies	-	-	5,000	0%
Total field operations	57,385	193,727	2,652,937	7%
Other fees and charges				
Tax collector	3,470	3,470	32,955	11%
Property appraiser	3,471	3,471	32,955	11%
Property tax bills - fire & EMS assessment	26	26	100	26%
Total other fees & charges	6,967	6,967	66,010	11%
Total expenditures	136,424	305,765	3,336,927	9%

SUNSHINE
WATER CONTROL DISTRICT
STATEMENT OF REVENUES, EXPENDITURES,
AND CHANGES IN FUND BALANCES
GENERAL FUND
FOR THE PERIOD ENDED NOVEMBER 30, 2019

	Current Month	Year to Date	Adopted Budget	% of Budget
Excess/(deficiency) of revenues over/(under) expenditures	213,185	47,360	(143,573)	
OTHER FINANCING SOURCES/(USES)				
Transfers in - from DSF Series 2018	36,882	36,882	336,073	11%
Total other financing sources/(uses)	36,882	36,882	336,073	11%
Net increase/(decrease) of fund balance	250,067	84,242	192,500	
Fund balance - beginning	4,512,238	4,678,063	3,770,788	
Fund balance - ending				
Assigned:				
3 months working capital	834,232	834,232	834,232	
Disaster recovery	3,000,000	3,000,000	3,000,000	
Truck replacement	94,000	94,000	94,000	
Unassigned	834,073	834,073	35,056	
Total Fund balance - ending	$ 4,762,305	$ 4,762,305	$ 3,963,288	

SUNSHINE
WATER CONTROL DISTRICT
STATEMENT OF REVENUES, EXPENDITURES,
AND CHANGES IN FUND BALANCES
DEBT SERVICE FUND SERIES 2011
FOR THE PERIOD ENDED NOVEMBER 30, 2019

	Current Month	Year To Date
REVENUES	$ -	$ -
Total revenues	-	-
EXPENDITURES	-	-
Total expenditures	-	-
Excess/(deficiency) of revenues over/(under) expenditures	-	-
Fund balances - beginning	144	144
Fund balances - ending	$ 144	$ 144

SUNSHINE
WATER CONTROL DISTRICT
STATEMENT OF REVENUES, EXPENDITURES,
AND CHANGES IN FUND BALANCES
DEBT SERVICE FUND SERIES 2018
FOR THE PERIOD ENDED NOVEMBER 30, 2019

	Current Month	Year To Date	Amended Budget	% of Budget
REVENUES				
Assessments	$ 100,464	$ 100,464	$ 916,037	11%
Interest	391	708	-	N/A
Total revenues	100,855	101,172	916,037	11%
EXPENDITURES				
Debt service				
Interest	280,440	280,440	560,880	50%
Total debt service	280,440	280,440	560,880	50%
Other fees and charges				
Tax collector	1,005	1,005	9,542	11%
Property appraiser	1,005	1,005	9,542	11%
Total other fees and charges	2,010	2,010	19,084	11%
Total expenditures	282,450	282,450	579,964	49%
Excess/(deficiency) of revenues over/(under) expenditures	(181,595)	(181,278)	336,073	-54%
OTHER FINANCING SOURCES/(USES)				
Transfers (out) - to GF	(36,882)	(36,882)	(336,073)	11%
Total other financing sources/(uses)	(36,882)	(36,882)	(336,073)	11%
Net increase/(decrease) in fund balance	(218,477)	(218,160)	-	
Fund balances - beginning	282,285	281,968	280,632	
Fund balances - ending	$ 63,808	$ 63,808	$ 280,632	23%

SUNSHINE
Water Control District
Special Assessment Revenue Improvement Bonds, Series 2018
$11,685,000

Debt Service Schedule

Date	Principal	Coupon	Interest	Total P+I
11/01/2019		-	280,440.00	280,440.00
05/01/2020		4.800%	280,440.00	280,440.00
11/01/2020		-	280,440.00	280,440.00
05/01/2021		4.800%	251,227.50	251,227.50
11/01/2021		-	222,015.00	222,015.00
05/01/2022		4.800%	222,015.00	222,015.00
11/01/2022		-	222,015.00	222,015.00
05/01/2023	430,000.00	4.800%	222,015.00	652,015.00
11/01/2023		-	213,845.00	213,845.00
05/01/2024	450,000.00	4.800%	213,845.00	663,845.00
11/01/2024		-	205,295.00	205,295.00
05/01/2025	465,000.00	4.800%	205,295.00	670,295.00
11/01/2025		-	196,460.00	196,460.00
05/01/2026	480,000.00	4.800%	196,460.00	676,460.00
11/01/2026		-	187,340.00	187,340.00
05/01/2027	500,000.00	4.800%	187,340.00	687,340.00
11/01/2027		-	177,840.00	177,840.00
05/01/2028	520,000.00	4.800%	177,840.00	697,840.00
11/01/2028		-	167,960.00	167,960.00
05/01/2029	540,000.00	4.800%	167,960.00	707,960.00
11/01/2029		-	157,700.00	157,700.00
05/01/2030	560,000.00	4.800%	157,700.00	717,700.00
11/01/2030		-	147,060.00	147,060.00
05/01/2031	580,000.00	4.800%	147,060.00	727,060.00
11/01/2031		-	136,040.00	136,040.00
05/01/2032	600,000.00	4.800%	136,040.00	736,040.00
11/01/2032		-	124,640.00	124,640.00
05/01/2033	625,000.00	4.800%	124,640.00	749,640.00
11/01/2033		-	112,765.00	112,765.00
05/01/2034	650,000.00	4.800%	112,765.00	762,765.00
11/01/2034		-	100,415.00	100,415.00
05/01/2035	675,000.00	4.800%	100,415.00	775,415.00
11/01/2035		-	87,590.00	87,590.00
05/01/2036	695,000.00	4.800%	87,590.00	782,590.00
11/01/2036		-	74,385.00	74,385.00
05/01/2037	730,000.00	4.800%	74,385.00	804,385.00
11/01/2037		-	60,515.00	60,515.00
05/01/2038	750,000.00	4.800%	60,515.00	810,515.00
11/01/2038		-	46,265.00	46,265.00
05/01/2039	780,000.00	4.800%	46,265.00	826,265.00
11/01/2039		-	31,445.00	31,445.00
05/01/2040	810,000.00	4.800%	31,445.00	841,445.00
11/01/2040		-	16,055.00	16,055.00
05/01/2041	845,000.00	4.800%	16,055.00	861,055.00
Total	**$11,685,000.00**	**-**	**$6,467,837.50**	**$18,152,837.50**

SUNSHINE
WATER CONTROL DISTRICT

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DRAFT

MINUTES OF MEETING
SUNSHINE WATER CONTROL DISTRICT

The Board of Supervisors of the Sunshine Water Control District held a Regular Meeting on December 4, 2019, at 6:00 p.m., at Sartory Hall, located in Mullins Park, 10150 NW 29 St. (Ben Geiger Drive), Coral Springs, Florida 33065.

Present at the meeting were:

Joe Morera	President
Daniel Prudhomme	Vice President
John Tornincasa	Secretary

Also present were:

Cindy Cerbone	District Manager
Al Malefatto	District Counsel
Jim Maguire	Craig A. Smith & Associates, Inc.
Steve Smith	Craig A. Smith & Associates, Inc.
Cory Selchan	Field Superintendent
John McKune	Engineering Consultant
Mike Wilson (via telephone)	Nelson, Mullins, Broad and Cassel LLP
Jeremy Springhart (via telephone)	Nelson, Mullins, Broad and Cassel LLP
Patty Villaran	Arthur Gallagher
Court Reporter	

FIRST ORDER OF BUSINESS **Call to Order**

Mr. Morera called the meeting to order at 6:00 p.m.

SECOND ORDER OF BUSINESS **Roll Call**

Ms. Cerbone called the roll. All Supervisors were present, in person.

THIRD ORDER OF BUSINESS **Pledge of Allegiance**

All present recited the Pledge of Allegiance.

FOURTH ORDER OF BUSINESS **Recess Regular Meeting/Commencement of Executive Session**

Mr. Malefatto stated the purpose of the Executive Session was to discuss a settlement in the litigation case.

The Regular Meeting recessed and the Executive Session commenced at approximately 6:02 p.m.

FIFTH ORDER OF BUSINESS **Termination of Executive Session/Reconvene Regular Meeting**

The Executive Session concluded at 6:45 p.m.

The Regular Meeting reconvened at 6:55 p.m.

Mr. Malefatto stated the Executive Session to discuss a potential settlement in the IBI litigation had concluded. He and Ms. Cerbone concurred with the recommendation of litigation attorney, Mr. Mike Wilson, of Nelson, Mullins, Broad and Cassel LLP, to accept the IBI settlement offer, which was their best and final offer; otherwise, the case would go to trial. The settlement amount would cover all repair costs and legal fees; however, not all pre-litigation costs involved in investigating the problem.

Mr. Wilson discussed the items the settlement would cover, including all the participating costs to repair, all attorney fees and some of the pre-litigation costs incurred by the District. The offer included a contingency amount and, if the actual repair costs were less than the actual estimates, there may be more money available to fund remaining costs.

On MOTION by Mr. Prudhomme and seconded by Mr. Tornincasa, with Mr. Prudhomme and Mr. Tornincasa in favor and Mr. Morera dissenting, accepting the IBI settlement offer of $3,750,000, was approved. [Motion passed 2-1]

Mr. Wilson stated that opposing counsel would be notified that the District accepted the settlement offer; the settlement agreement and release forms would be sent to Mr. Malefatto for his review.

On MOTION by Mr. Tornincasa and seconded by Mr. Prudhomme, with all in favor, authorizing the President to execute all settlement related documents prepared by outside counsel, subject to final legal review by District Counsel, was approved.

Mr. Morera stated that he dissented from approval of the settlement offer because he felt that the District should have received more from IBI.

SIXTH ORDER OF BUSINESS **Public Comments [3-Minute Time Limit] (*Comments should be made from the microphone to ensure recording. Please state your name prior to speaking)***

There being no public comments, the next item followed.

SEVENTH ORDER OF BUSINESS **Presentation and Approval of Employee Health Care Plan**

Ms. Cerbone distributed a final version of the Health Care Analysis prepared by Ms. Patty Villaran, of Arthur Gallagher, and stated she was pleased with the minimal increase, which was the lowest in years.

Ms. Patty Villaran presented the following options available in market:

- Healthcare: AvMed's rates increased 8%, where as the increase from other providers with similar plan costs were much higher. She too was pleasantly surprised of the minimal increase, the lowest seen for any of her clients, and stated that AvMed would like the District to change its plan, as it would not be offered again.
- Dental: Ameritas' rates increased 8%; however, no changes were made to the plan. Other providers' rates were much higher and did not offer similar plans.
- Vision: Ameritas' rates remained the same, with no changes in benefits; other providers' rates were slightly less but had minor changes in the plan.
- Life and Disability: The plan would remain as is; a renewal does not apply to long-term and short-term disability.

On MOTION by Mr. Tornincasa and seconded by Mr. Prudhomme, with all in favor, renewal of the existing AvMed employee medical plan, based on the recommendation of Ms. Villaran, of Arthur Gallagher, and with no changes to the carriers for Dental, Vision, Short and Long-Term Disability and Life Insurance and/or Accidental Death & Dismemberment Coverage, for calendar year 2020, at the rates proposed, was approved.

EIGHT ORDER OF BUSINESS **Acceptance of Unaudited Financial Statements as of October 31, 2019**

Ms. Cerbone presented the Unaudited Financial Statements as of October 31, 2019.

On MOTION by Mr. Tornincasa and seconded by Mr. Prudhomme, with all in favor, the Unaudited Financial Statements as of October 31, 2019, were accepted.

NINTH ORDER OF BUSINESS **Approval of Minutes**

A. November 13, 2019 Regular Meeting

Ms. Cerbone presented the November 13, 2019 Regular Meeting Minutes.

On MOTION by Mr. Prudhomme and seconded by Mr. Tornincasa, with all in favor, the November 13, 2019 Regular Meeting Minutes, as amended to incorporate all edits previously submitted to Management, were approved.

B. November 20, 2019 Continued Regular Meeting

Mr. Morera presented the November 20, 2019 Continued Regular Meeting Minutes.

On MOTION by Mr. Tornincasa and seconded by Mr. Prudhomme, with all in favor, the November 20, 2019 Continued Regular Meeting Minutes, amended to incorporate all edits previously submitted to Management, were approved.

TENTH ORDER OF BUSINESS **Public Comments**

There being no public comments, the next item followed.

ELEVENTH ORDER OF BUSINESS **Supervisors' Communications**

Mr. Prudhomme hoped everyone had a nice Thanksgiving and wished everyone Merry Christmas, Happy Hanukkah and Happy New Year.

Mr. Tornincasa concurred with Mr. Prudhomme's sentiment. He stated he was uncertain whether he would be able to attend the annual holiday luncheon. He thanked

everyone for the gift basket. He believed the outcome of the lawsuit was good and complimented District Staff on a good job.

Mr. Morera asked about the Federal Emergency Management Agency (FEMA) claim. Ms. Cerbone stated the Consultant indicated that the Coral Springs Improvement District (CSID) did not receive reimbursement funds, nor did the City of Coral Springs, despite the City completing work and filing its claims in advance of the CSID or this District. The Consultant responded to a follow up request from FEMA about ten days ago. Mr. Selchan stated the Consultant informed him that FEMA's process changed to sending funds from outstanding claims directly to the State; therefore, the District was waiting for reimbursement from the State, rather than FEMA. KPMG, the State's Contractor, was reviewing the District's claim.

Mr. Morera thanked everyone for their contribution to the operation of the District and in serving the residents. He wished Mr. Tornincasa a speedy recovery. He wished everyone a Merry Christmas, Happy Hanukkah, Kwanzaa and a healthy and prosperous New Year.

TWELFTH ORDER OF BUSINESS Staff Reports

A. District Counsel: *Lewis, Longman & Walker, P.A.*

Mr. Malefatto congratulated Mr. Wilson and Mr. Springhart on an excellent job with the IBI litigation and stated that he respected Mr. Morera's vote pertaining to the settlement but commended Counsel's position in serving the District rather than proceeding with trial and collecting additional revenue.

B. District Engineer: *Craig A. Smith & Associates*

I. Presentation: Monthly Report

a. Proposed Capital Projects

b. Permit Applications

Mr. Maguire stated that the notice to proceed on the Canal 20-1A improvement project was sent; the project would commence January 6, 2020. A pre-construction meeting was scheduled for next Tuesday. The Country Club has shown no interest in performing work on its side simultaneously with the District.

Mr. Smith stated that the Phase 1 soil testings at all six crossings in the West Outfall Canal were 95% completed; he hoped to present the Contractor's Report at the next meeting. Phase 2, analysis and design, would begin at the vehicular bridges first, unless the District

preferred another location. Mr. Selchan agreed that Phase 2 should start at the bridges, followed by the pipe crossing and pedestrian bridge.

Mr. Morera asked for an update on the AT&T contractor that damaged a culvert during drilling. Mr. Selchan stated Mr. Rubio was following up and would advise the contractor that, unless they respond in a timely manner as to whether they are the responsible party, the District would have the repairs made and send them the bill. Discussion ensued. Mr. Smith would instruct Mr. Rubio to document his call with the Contractor via email and copy District Staff.

Mr. Smith stated Mr. Rubio was reviewing a permit application for the Waste Transfer Station, culvert crossing. A Letter of No Objection (LONO) was issued for modifying the communication tower at 11711 West Sample Road.

C. District Engineering Consultant: *John McKune*

Mr. McKune stated he was happy to hear about the settlement and commented on the positive experience working with Mr. Wilson and Mr. Springhart. He hoped remediation would begin in early 2020.

D. District Field Supervisor: *Cory Selchan*

Mr. Selchan reported the following:

- Little rainfall was received. The dry season continues and canal levels were expected to decrease.
- Treatment of the canals and removal of aquatic plants on the canals continued. The canals continued to look pretty good, in preparation of the upcoming holidays.

Mr. Selchan thanked the Board for renewing the employee health plan, wished Mr. Tornincasa a speedy recovery and echoed Mr. McKune's thoughts about the positive experience with the litigation attorneys and recent settlement. He looked forward to remedying as many items as possible with the settlement funds. He was proud of the District and thanked everyone for their hard work.

E. District Manager: *Wrathell, Hunt & Associates, LLC*

I. Continued Discussion: Obstructions Removal

Ms. Cerbone recalled discussion of the Board's position on addressing obstructions in the District's right-of-way (ROW), which was to only address new vegetation and not existing items. After a request, a homeowner relocated new vegetation, refused to move existing

vegetation and brought up her neighbor who recently added new plantings to existing ones in the ROW. Discussion ensued regarding how the Board wanted to address the matter and whether to notice residents on an individual basis or send notices to a row of homes. Ms. Cerbone distributed a map that identified CSID property owners.

Mr. Selchan stated the neighbor's bamboo plantings would not affect the District, in a wind event, as much as the coconut palms and citrus trees planted by the resident. Ms. Cerbone and Mr. Selchan would draft a notice for Mr. Malefatto's review and present it in the New Year.

II. NEXT MEETING DATE: January 8, 2020 at 6:30 P.M.

Ms. Cerbone stated the June 2020 meeting conflicts with the Florida Association of Special Districts (FASD) conference; a decision whether to change the date would be made closer to the date.

The next meeting will be held on January 8, 2020 at 6:30 p.m.

- **Quorum Check**

This item was not addressed.

Mr. Smith stated that he understood Mr. Morera's stance on the settlement but noted that, at least they can take action sooner rather than later. They would work with Staff to determine the most efficient and effective uses for the funds that would be the best solutions and in the best interests of the District. He commended the efforts of the litigation attorneys.

Mr. Malefatto stated, after two mediations, this was the first really decent settlement offer received.

Ms. Cerbone stated, rather than placing the settlement funds in the "unassigned" budget line item, she would present ideas after she consults with the accounting department, so that a budget amendment can be prepared.

Ms. Cerbone asked everyone to RSVP to the annual holiday luncheon.

THIRTEENTH ORDER OF BUSINESS Adjournment

There being no further business to discuss, the meeting adjourned.

On MOTION by Mr. Morera and seconded by Mr. Tornincasa, with all in favor, the meeting adjourned at 8:18 p.m.

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247
248
249
250
251
252 _____ _____
253 Secretary/Assistant Secretary President/Vice President

SUNSHINE
WATER CONTROL DISTRICT

9BI

CRAIG A. SMITH & ASSOCIATES
21045 Commercial Trail • Boca Raton, FL 33486
CONSULTING ENGINEERS • SURVEYORS • UTILITY LOCATORS
www.craigasmith.com

December 23, 2019

Board of Supervisors
Sunshine Water Control District
2300 Glades Road, Suite 410W
Boca Raton, Florida 33073

RE: SUNSHINE WATER CONTROL DISTRICT
MONTHLY ENGINEER'S REPORT (MER) (January 8, 2020)
November 26, 2019 – December 23, 2019
CAS PROJECT NO. 15-1826

Dear Board of Supervisors:

Craig A. Smith & Associates, Inc. (CAS) is pleased to provide you with the following Monthly Engineer's Report summarizing activity performed by this office on behalf of SWCD during the referenced period including future work. Anything of significance occurring after this writing will be brought up at the January 8, 2020 BOS meeting.

CAPITAL PROJECTS

Canal 20-1A Improvements Engineering Services During Construction

- CAS & SWCD had a pre-construction meeting with Shenandoah– Anthony Guglielmi on December 13, 2019.
- Notice to Proceed date agreed upon; January 13, 2020 (attached).

West Outfall Canal - Geotechnical Services for 6 Canal Crossings

- Radise International Geotechnical Report of field explorations is attached.
- Phase 2 portion of the project is underway (analysis, design concepts, costs, etc.)

Permitting activity:

- FPL power pole installation at Stranahan River is recommended for approval (CAS Recommendation attached)
- Letter of No Objection issued to Cornerstone Downtown (redevelopment) SW Corner of Sample Rd & University Dr
- A request for Termination of Easement was requested by Bassett Brothers, Inc. via their attorney, Greenspoon Marder LLP. The easement encumbers adjacent (undeveloped) property located on 10340 Royal Palm Blvd. Besides correspondence and a meeting with SWCD team members, no action/recommendation has been made to date until the request satisfies SWCD requirements.

We continue to look forward to working with the SWCD staff on current and future important projects. Should there be any questions, I can be reached at the letterhead numbers shown or by electronic mail at orubio@craigasmith.com.

Sincerely,
CRAIG A. SMITH & ASSOCIATES

Orlando A. Rubio, PE
Sr. Supervising Engineer

cc: **SWCD** – Cory Selchan, John McKune, PE (via e-mail);
WHA – Cindy Cerbone, Debbie Tudor, Daphne Gillyard (via e-mail);
CAS – Steve Smith, PE, Jim Maguire (via e-mail)

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CRAIG A. SMITH & ASSOCIATES
21045 Commercial Trail • Boca Raton, FL 33486
CONSULTING ENGINEERS • SURVEYORS • UTILITY LOCATORS
www.craigasmith.com

NOTICE TO PROCEED

Sunshine Water Control District - Canal 20-1A

TO: Shenandoah Construction
1888 NW 22nd Street
Pompano Beach, FL 33069
Attn: Anthony Guglielmi (via e-mail anthony@shenandoahconstruction.com)

Date: Rev. December 10, 2019

PROJECT DESCRIPTION:

SUNSHINE WATER CONTROL DISTRICT (SWCD) CANAL 20-1A IMPROVEMENTS (CAS PROJECT NO. 15-1826-004) in accordance with the PLANS as prepared by Craig A. Smith & Associates and Shenandoah's Proposal Number 15498.

You are hereby notified to commence WORK in accordance with the October 9, 2019 SWCD Board of Supervisors approval on January 13, 2020, for the Canal Construction and you are to complete this activity by January 24, 2020.

Craig A. Smith & Associates

BY: _____
Orlando A. Rubio, PE

TITLE: Senior Supervising Engineer (District Engineer)

ACCEPTANCE OF NOTICE

Receipt of the above NOTICE TO PROCEED is hereby acknowledged by

Shenandoah Construction this 16 day of Dec., 2019.

BY: _____ _____
Authorized Personnel (Print) Signature of Authorized Personnel

TITLE: Controller

P:\Districts\Sunshine_Water_Control\15-1826-004-Canal 20-1A Improvements\04-Engineering\Documents\Specifications\SWCD Canal 20-1A NTP-Rec-2019.12.10.docx

December 13, 2019

Craig A. Smith & Associates
21045 Commercial Trail
Boca Raton, FL 33486

Attn: Orlando A. Rubio, P.E.
Direct Phone: 561-314-4445, Ext. 203
Cell Phone: 954-815-5911
E-mail: ORubio@craigasmith.com

RE: Geotechnical Engineering Services Report – Phase 1
Sunshine Water Control District
West Outfall Canal Improvements - Bridges
Broward County, Florida
RADISE Project No: 191007

Dear Mr. Rubio,

RADISE International, LC (RADISE) is pleased to submit this Geotechnical Engineering Services Report for the above referenced project. RADISE has completed these services in accordance with our proposal dated August 28, 2019.

This report presents the results of our field exploration and laboratory testing programs, and provides our geotechnical recommendations relative to the widening of the West Outfall Canal at 5 bridge structures and 1 utility pipeline crossing.

We appreciate the opportunity to work with you on this project. Should you have any questions regarding the report, or if we can be of further assistance as this project develops, please contact us at (561) 841-0103.

Sincerely,

RADISE International, LC
Florida Certificate of Authorization No.8901

Akash Bissoon, P.E.
Senior Project Engineer
Florida Registration No. 74582

Andrew Nixon, P.E.
Operations Manager
Florida Registration No. 71458

ANDREW NIXON LICENSE No. 71458 12/13/19 STATE OF FLORIDA PROFESSIONAL ENGINEER

TABLE OF CONTENTS

Attachments

1.0 INTRODUCTION

This report has been prepared to aid in the evaluation and the design of the canal widening project, for the Sunshine Water Control District West Outfall Canal located in Coral Springs, Broward County, Florida. The project site is located at the general location shown on the attached *Vicinity Map*, Sheet 1.

This report includes geotechnical exploration data, subsurface groundwater information, laboratory and engineering analysis, recommendations for design, and other site-specific information that may affect construction and earthwork operations for the proposed project.

The primary purpose of the geotechnical exploration was to determine the stratigraphy and physical properties of the soils underlying the site, particularly the strength and deformation characteristics, so that a satisfactory and economical canal widening program may be designed for the existing bridge locations.

The analysis and recommendations presented in this report are based upon our interpretation of the subsurface information revealed by the test borings. The report does not reflect variations in subsurface conditions that may exist beyond these borings. Variations in soil and groundwater conditions should be expected, the nature and extent of which might not become evident until construction is undertaken. If variations are encountered, and/or the scope of the project altered, we should be consulted for additional recommendations.

2.0 PROJECT DESCRIPTION

The project is located in the City of Coral Springs, Florida. It is our understanding that is proposed to widen the West Outfall Canal from Coral Springs Drive to the pump station structure south of Riverside Drive. The canal cross sections have been designed; however, the canal intersects four (4) vehicular bridges, one (1) pedestrian bridge structure and one (1) utility pipe canal crossing which will restrict conveyance at the crossings without providing improvements under the existing crossings. RADISE was sub contracted to provide geotechnical engineering services to accommodate the canal improvements under the following existing bridges:

- Coral Springs Drive Vehicular Bridge – Four lane, divided, prestressed concrete pile supported bridge with rip-rap slope protection.

- Cypress Park Vehicular Bridge – Two lane, prestressed concrete pile supported bridge with rip-rap slope protection.

- Cypress Park Pedestrian Bridge – Pedestrian Bridge, likely supported on shallow foundations, protected by a concrete headwall.

- Cypress Creek Aerial Utility Crossing – Aerial pipe crossing, middle bent supported by prestressed concrete piles, end bents either supported on shallow foundations or prestressed concrete piles with no slope protection on canal banks.

- Atlantic Boulevard Vehicular Bridge – Six lane, divided, prestressed concrete pile supported bridge with gravity walls and concrete covered slopes. Additional canal spanning arched pipe crossing.

- Riverside Vehicular Bridge – Two land, prestressed concrete pile supported bridge with gravity walls and concrete covered slopes.

3.0 SCOPE OF SERVICES PERFORMED

RADISE performed the following services in accordance with the proposed scope of work:

1. Visited the bridge sites and observed the planned boring locations, site conditions and reviewed site access.

2. Contacted Sunshine 811 per Florida Statutes, to request the field location of underground utilities in the area of the borings.

3. Mobilized and set up Temporary Traffic Control (TTC) prior to and during the field drilling operations.

4. Mobilized a truck-mounted drilling rig to the bridge sites and drilled a total of twelve (12) Standard Penetration Test (SPT) borings to depths of 75 feet below the existing ground surface. Two SPT borings were performed at each bridge site. The groundwater level encountered in the borings at the time of drilling was measured and recorded. The boreholes were then backfilled with a neat cement grout backfill following the completion of drilling and groundwater measurement operations.

5. Initially visually classified the collected soil samples in the field and then verified field classifications in the laboratory using the Unified Soil Classification System (USCS) in accordance with the visual-manual method of ASTM D 2488. A limited laboratory testing program was assigned and performed to identify soil index properties and assist in the final classification of the soils for engineering purposes (ASTM 2487).

6. Prepared this geotechnical report which includes the results of the SPT borings, the soil laboratory testing results, and the characteristics and properties of the soils at all structures.

4.0 FIELD EXPLORATION

RADISE personnel visited the project site prior to drilling to observe the locations of the planned soil borings. Sunshine 811 was then contacted for field location of underground utilities in the area of the planned borings as per Florida Statutes. The boring locations were finalized in the field by RADISE after the underground utility locations were determined. The boring locations are depicted on the attached *Boring Location Plan,* Sheet 2. TTC was used in the vicinity of our field work efforts to protect our field crew and the general public from damage or injury. The TTC system and components was designed and set up in accordance with the FDOT Standard Plans.

Between October 22nd and November 8th, 2019, RADISE performed twelve (12) SPT borings to depths of 75 feet below the existing ground surface. The SPT borings were performed in general accordance with ASTM D 1586, "*Standard Test Method for Standard Penetration Test and Split-Barrel Sampling of Soils*". Continuous sampling was performed in the top 30 feet of the SPT borings and in 5 feet intervals after. Upon retrieval of the split-spoon, soil samples were extracted and visually classified and placed in moisture proof containers for transportation to our laboratory.

The depth at which groundwater was encountered was measured within the borings at the time of drilling. Following completion of the drilling and testing, the boreholes were backfilled with grout and the pavement patched with cold asphalt patch, where appropriate.

5.0 LABORATORY TESTING

5.1 GENERAL

At the time of drilling in the field, the soil samples obtained from the soil borings were visually classified by our drilling crew chief, in general accordance with the *Unified Soil Classification System* (ASTM D 2488). Field classifications were subsequently confirmed by a RADISE geotechnical engineer in the laboratory. Selected soil samples were then subject to additional testing for index properties to aid in their classification for engineering purposes (ASTM D 2487).

The following laboratory tests were performed for this project:

- Four (4), Moisture content tests (ASTM D 2216)
- One (1), Organic Content (ASTM D 2216)
- One (1), Percent of material passing through No. Sieve 200 tests (ASTM D 1140)
- Three (3), Mechanical grain size analysis (ASTM D 422)

A summary of laboratory test results is presented in the attached *Summary of Laboratory Test Results,* Table 1 and on the attached *Subsurface Profiles,* Sheets 3A through 3F.

6.0 SUMMARY OF SURFACE AND SUBSURFACE CONDITIONS

6.1 SUBSURFACE CONDITIONS

Stratification of the explored soils is based on visual examination of the recovered soil samples, laboratory classification and index property testing, and interpretation of the field boring logs by a geotechnical engineer in accordance with the Unified Soil Classification System (USCS). Subsurface profiles showing the soil stratification at the boring locations were developed and are presented on the attached *Subsurface Profiles*, Sheets 3A through 3F. Stratification lines represent approximate boundaries between soil types, but the actual transition between layers may be gradual or abrupt. Additionally, soil and groundwater conditions will vary between boring locations.

The soil borings performed generally encountered top soil, underlain by brown, fine to medium sands with gravel and traces of organics in the upper 2 to 12 feet. The fine to medium sands with gravel and traces of organics was underlain by intermittent layers of gray and brown sandy limestone, limestone, and fine to medium sands with limestone and shell fragments. Layers of a silty sand was encountered in borings B-1 and B-11.

The SPT Values (N-values) in terms of relative particle density, indicate that the subsurface sandy soils are generally loose to dense. The underlying limestone formation is moderately hard with some hard lenses.

6.2 GENERALIZED STRATIGRAPHY

A generalized stratigraphy of the subsurface deposits was developed based on the information obtained from field exploration and our laboratory testing program. The following Table 1 presents a generalized description of the site soil stratigraphy.

Table 1: Stratigraphy

Stratum No.	Soil Description	USCS Soil Classification
1	Dark brown to brown, fine to medium SAND, with Gravel, trace Organics, occasionally with Silt	SP / SP-SM
2	Brown Limerock	
3	Gray and brown, Limestone, occasionally Sandy	
4	Gray and brown, fine to medium SAND, occasionally with Limestone fragments, occasionally with Silt	SP / SP-SM
5	Gray, Silty SAND, with Shell fragments, with Limestone fragments, occasional trace Organics	SM

Detailed graphical logs of the SPT borings, including SPT N-values, the soil profile, and the groundwater depth noted, are provided on the attached *Subsurface Profiles*, Sheets 3A through 3F.

6.3 GROUNDWATER

Between October 22nd and November 8th, 2019, at the time of our drilling operations, groundwater was encountered in the soil borings at depths ranging between approximately 2.0 and 12.0 feet below the existing ground surface. It should be noted that groundwater levels will fluctuate with the seasons, variations of precipitation, and with fluctuations of the West Outfall Canal. It is recommended that the seasonal high groundwater table levels along the project site be based on the normal high water levels of the West Outfall Canal.

7.0 RECOMMENDATIONS

7.1 RECOMMENDED SOIL PARAMETERS FOR UNDERGROUND STRUCTURE DESIGN

Underground structures for this project should be designed to resist pressures exerted by the adjacent soils and hydrostatic head. For walls that are not restrained during backfilling but are free to rotate at the top, active earth pressure should be used in design. Walls that are restrained should be designed assuming at-rest pressures. Recommended soil parameters for the soils encountered at the site are given in the following *Soil Design Parameters*, Tables 2 through 13.

Table 2: Soil Design Parameters – Coral Springs Drive Vehicular Bridge (Boring B-1)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 4	8	9	30	109	46	0.329	3.040	0.495
4 – 8	12	14	37	121	59	0.253	3.947	0.404
8 – 10	7	9	30	108	46	0.331	3.021	0.497
10 – 16	12	14	37	121	59	0.253	3.956	0.404
16 – 22	8	10	30	109	46	0.328	3.046	0.494
22 – 24	15	19	38	123	61	0.242	4.139	0.389
24 – 26	100	124	40	128	66	0.217	4.599	0.357
26 – 28	15	19	38	123	61	0.242	4.139	0.389
28 – 33.5	7	9	30	108	46	0.331	3.021	0.497
33.5 – 43.5	14	17	32	113	50	0.303	3.301	0.465
43.5 – 48.5	100	124	40	128	66	0.217	4.599	0.357
48.5 – 53.5	9	11	31	110	47	0.323	3.097	0.488
53.5 – 58.5	100	124	40	128	66	0.217	4.599	0.357
58.5 – 68.5	16	19	33	114	51	0.297	3.365	0.458
68.5 – 75	17	20	38	124	62	0.237	4.225	0.383

Table 3: Soil Design Parameters– Coral Springs Drive Vehicular Bridge (Boring B-2)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 2	9	11	31	110	47	0.323	3.097	0.488
2 – 8	6	7	30	108	45	0.335	2.983	0.502
8 – 12	13	16	32	112	50	0.307	3.259	0.470
12 – 16	11	13	36	121	58	0.257	3.895	0.409
16 – 20	8	9	30	109	46	0.329	3.040	0.495
20 – 22	10	12	31	110	48	0.319	3.137	0.483
22 – 26	23	28	40	128	66	0.218	4.594	0.358
26 – 33.5	100	124	40	128	66	0.217	4.599	0.357
33.5 – 43.5	6	7	30	108	45	0.335	2.983	0.502
43.5 – 48.5	9	11	31	110	47	0.323	3.097	0.488
48.5 – 58.5	100	124	40	128	66	0.217	4.599	0.357
58.5 – 73.5	6	7	30	108	45	0.335	2.983	0.502
73.5 – 75	16	20	33	114	52	0.295	3.386	0.456

Table 4: Soil Design Parameters – Cypress Park Vehicular Bridge (Boring B-3)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 4	8	9	30	109	46	0.329	3.040	0.495
4 – 6	30	37	40	128	66	0.217	4.599	0.357
6 – 12	11	14	36	121	58	0.255	3.921	0.406
12 – 14	18	22	38	125	62	0.233	4.284	0.379
14 – 16	8	10	30	109	47	0.327	3.059	0.493
16 – 18	19	24	34	116	53	0.284	3.521	0.442
18 – 22	100	124	40	128	66	0.217	4.599	0.357
22 – 38.5	13	16	32	112	50	0.308	3.250	0.471
38.5 – 43.5	8	10	30	109	47	0.327	3.059	0.493
43.5 – 48.5	11	14	31	111	48	0.315	3.177	0.479
48.5 – 53.5	54	66	40	128	66	0.217	4.599	0.357
53.5 – 75	8	9	30	109	46	0.329	3.043	0.495

Table 5: Soil Design Parameters – Cypress Park Vehicular Bridge (Boring B-4)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 2	10	12	31	110	48	0.319	3.137	0.483
2 – 4	25	31	40	128	66	0.217	4.599	0.357
4 – 12	13	16	37	122	60	0.248	4.028	0.398
12 – 14	31	38	40	128	66	0.217	4.599	0.357
14 – 16	10	12	31	110	48	0.319	3.137	0.483
16 – 18	100	124	40	128	66	0.217	4.599	0.357
18 – 20	19	24	39	126	63	0.229	4.374	0.372
22 – 24	100	124	40	128	66	0.217	4.599	0.357
24 – 26	10	12	31	110	48	0.319	3.137	0.483
26 – 28	100	124	40	128	66	0.217	4.599	0.357
28 – 30	9	11	31	110	47	0.323	3.097	0.488
30 – 33.5	7	9	30	108	46	0.331	3.021	0.497
33.5 – 38.5	11	14	36	121	58	0.255	3.921	0.406
38.5 – 43.5	6	7	30	108	45	0.335	2.983	0.502
43.5 – 48.5	100	124	40	128	66	0.217	4.599	0.357
48.5 – 53.5	11	14	31	111	48	0.315	3.177	0.479
53.5 – 75	7	9	30	108	46	0.330	3.028	0.496

Table 6: Soil Design Parameters – Cypress Park Pedestrian Bridge (Boring B-5)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 2	14	17	32	113	50	0.303	3.301	0.465
2 – 8	17	21	38	125	62	0.234	4.274	0.379
8 – 10	26	32	40	128	66	0.217	4.599	0.357
10 – 14	20	24	39	126	64	0.227	4.404	0.370
14 – 16	17	21	33	115	52	0.292	3.431	0.451
16 – 18	27	33	36	121	58	0.255	3.914	0.407
18 – 22	65	80	40	128	66	0.217	4.599	0.357
22 – 33.5	18	22	34	115	53	0.288	3.475	0.447
33.5 – 38.5	35	43	40	128	66	0.217	4.599	0.357
38.5 – 53.5	16	20	38	124	62	0.237	4.216	0.383
53.5 – 63.5	18	22	33	115	52	0.290	3.453	0.449
63.5 – 68.5	26	32	40	128	66	0.217	4.599	0.357
68.5 – 75	19	23	34	115	53	0.286	3.498	0.445

Table 7: Soil Design Parameters – Cypress Park Pedestrian Bridge (Boring B-6)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 2	18	22	34	115	53	0.288	3.475	0.447
2 – 16	20	25	39	126	64	0.225	4.435	0.368
16 – 18	17	21	40	128	66	0.217	4.599	0.357
18 – 22	30	37	42	132	70	0.197	5.079	0.329
22 – 33.5	11	13	31	111	48	0.317	3.157	0.481
33.5 – 38.5	24	30	35	119	56	0.266	3.760	0.420
38.5 – 43.5	25	31	40	128	66	0.217	4.599	0.357
43.5 – 73.5	20	24	34	116	54	0.282	3.552	0.439
73.5 – 75	14	17	40	128	66	0.217	4.599	0.357

Table 8: Soil Design Parameters – Cypress Creek Utility Crossing (Boring B-7)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 2	8	10	30	109	47	0.327	3.059	0.493
2 – 6	14	17	37	122	60	0.247	4.055	0.396
6 – 8	7	9	30	108	46	0.331	3.021	0.497
8 – 12	12	14	32	111	49	0.313	3.197	0.477
12 – 14	7	9	30	108	46	0.331	3.021	0.497
14 – 18	6	7	30	108	45	0.335	2.983	0.502
18 – 20	16	20	38	124	62	0.238	4.196	0.385
20 – 22	7	9	30	108	46	0.331	3.021	0.497
22 – 24	15	19	38	123	61	0.242	4.139	0.389
24 – 28	100	124	40	128	66	0.217	4.599	0.357
28 – 33.5	7	9	30	108	46	0.331	3.021	0.497
33.5 – 38.5	20	25	39	126	64	0.225	4.435	0.368
38.5 – 43.5	6	7	30	108	45	0.335	2.983	0.502
43.5 – 48.5	12	15	37	121	59	0.252	3.974	0.402
48.5 – 53.5	7	9	30	108	46	0.331	3.021	0.497
53.5 – 58.5	100	124	40	128	66	0.217	4.599	0.357
58.5 – 75	7	9	30	108	46	0.330	3.030	0.496

Table 9: Soil Design Parameters – Cypress Creek Utility Crossing (Boring B-8)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 2	6	7	30	108	45	0.335	2.983	0.502
2 – 8	13	17	37	122	60	0.247	4.046	0.396
8 – 14	7	9	30	109	46	0.330	3.033	0.496
14 – 24	12	15	37	122	59	0.251	3.985	0.401
24 – 28	100	124	40	128	66	0.217	4.599	0.357
28 – 33.5	7	9	30	108	46	0.331	3.021	0.497
33.5 – 38.5	100	124	40	128	66	0.217	4.599	0.357
38.5 – 48.5	11	13	36	121	58	0.257	3.895	0.409
48.5 – 53.5	7	9	30	108	46	0.331	3.021	0.497
53.5 – 58.5	14	17	37	123	60	0.245	4.083	0.393
58.5 – 75	8	10	30	109	47	0.327	3.059	0.493

Table 10: Soil Design Parameters – Atlantic Boulevard Vehicular Bridge (Boring B-9)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 4	6	7	30	107	45	0.337	2.965	0.504
4 – 18	13	16	37	122	60	0.248	4.036	0.397
18 – 24	7	8	30	108	46	0.332	3.008	0.499
24 – 26	13	16	37	122	60	0.248	4.028	0.398
26 – 28	12	15	37	121	59	0.252	3.974	0.402
28 – 38.5	100	124	40	128	66	0.217	4.599	0.357
38.5 – 43.5	9	11	31	110	47	0.323	3.097	0.488
43.5 – 58.5	11	14	32	111	49	0.313	3.190	0.477
58.5 – 75	8	9	30	109	46	0.329	3.040	0.495

Table 11: Soil Design Parameters – Atlantic Boulevard Vehicular Bridge (Boring B-10)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 2	5	6	30	107	45	0.339	2.946	0.507
2 – 4	28	35	40	128	66	0.217	4.599	0.357
4 – 10	5	6	29	107	44	0.341	2.934	0.508
10 – 14	5	6	29	107	44	0.341	2.934	0.508
14 – 16	11	14	31	111	48	0.315	3.177	0.479
16 – 20	13	16	37	122	60	0.248	4.028	0.398
20 – 24	11	13	31	111	48	0.317	3.157	0.481
24 – 38.5	100	124	40	128	66	0.217	4.599	0.357
38.5 – 58.5	9	11	31	109	47	0.325	3.078	0.490
58.5 – 75	7	9	30	108	46	0.330	3.030	0.496

Table 12: Soil Design Parameters – Riverside Drive Vehicular Bridge (Boring B-11)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 4	10	12	31	110	47	0.321	3.117	0.486
4 – 6	21	26	40	127	65	0.222	4.498	0.364
6 – 8	30	37	40	128	66	0.217	4.599	0.357
8 – 12	19	23	39	125	63	0.230	4.344	0.374
12 – 18	24	30	40	128	66	0.217	4.599	0.357
18 – 20	100	124	40	128	66	0.217	4.599	0.357
20 – 22	100	124	40	128	66	0.217	4.599	0.357
22 – 24	18	22	39	125	63	0.232	4.314	0.376
24 – 28	15	19	33	113	51	0.299	3.343	0.460
28 – 38.5	19	24	39	126	63	0.229	4.374	0.372
38.5 – 48.5	13	16	32	112	50	0.307	3.259	0.470
48.5 – 53.5	34	42	39	125	63	0.232	4.306	0.377
53.5 – 58.5	100	124	40	128	66	0.217	4.599	0.357
58.5 – 75	26	32	36	120	57	0.261	3.836	0.414

Table 13: Soil Design Parameters – Riverside Drive Vehicular Bridge (Boring B-12)

Depth (ft.-ft.)	Average N_{AUTO}	Average N_{ES}	Recommended Values			Earth Pressure Coefficients		
			Friction Angle (Degrees)	Total Unit Weight (pcf)	Submerged Unit Weight (pcf)	Active, Ka	Passive, Kp	At rest, Ko
0 – 6	16	20	33	114	52	0.294	3.401	0.454
6 – 16	19	23	39	126	63	0.229	4.362	0.373
16 – 18	16	20	33	114	52	0.295	3.386	0.456
18 – 20	100	124	40	128	66	0.217	4.599	0.357
20 – 22	38	47	40	128	66	0.217	4.599	0.357
22 – 48.5	21	26	40	127	65	0.222	4.498	0.364
48.5 – 63.5	21	26	35	117	55	0.275	3.630	0.432
63.5 – 68.5	21	26	40	127	65	0.222	4.498	0.364
68.5 – 75	19	24	34	116	53	0.284	3.521	0.442

The SPT borings were performed with a CME-45 drill rig utilizing an automatic hammer. For design recommendations and soil parameter correlations, the automatic hammer SPT N-Values (N_{AUTO}) were converted to safety hammer SPT N-Values (N_{ES}) using the conversion equation obtained from the FDOT Soils and Foundation Handbook, $N_{ES} = 1.24 \times N_{AUTO}$.

8.0 LIMITATIONS

This report is intended for geotechnical purposes only, and does not document or detect the presence, or absence, of any environmental conditions at the site, nor is it intended to perform an environmental assessment of the site.

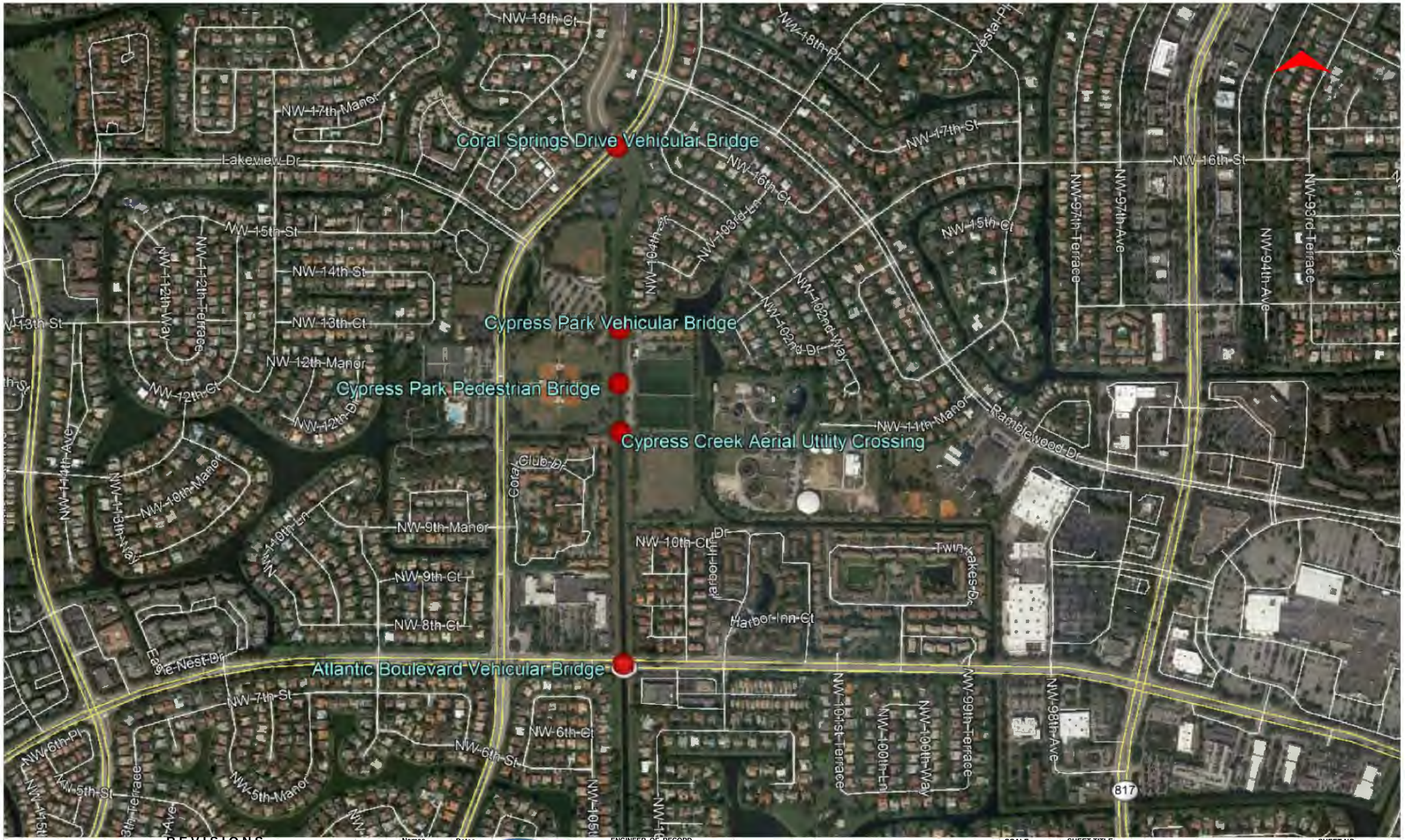
The analysis and recommendations presented in this report are based upon our interpretation of the subsurface information revealed by the test borings. The report does not reflect variations in subsurface conditions that may exist between or beyond these borings. Variations in soil and groundwater conditions should be expected, the nature and extent of which might not become evident until construction is undertaken. If variations are encountered, and/or the scope of the project altered, we should be consulted for additional recommendations.

RADISE International warrants that the professional services performed and presented in this report, are prepared for Craig A. Smith & Associates and are based upon typical standard of care recognized principles and practices in the discipline of geotechnical engineering and hydrogeology at this place and point in time, for this project site. No other warranties are expressed or implied.

-oOo-

RADISE appreciates the opportunity to be of service to you. Please feel free to contact us at 561-841-0103 if you have any questions or comments regarding this report.

Respectfully submitted
RADISE International, L.C.



REVISIONS

Date.	By	Descriptions	Date.	By	Descriptions

	Names	Dates
Drawn by	AK	11/22/2019
Checked by	NK	11/22/2019
Designed by	AB	11/22/2019
Checked by	AB	11/22/2019
Approved by		

RADISE INTERNATIONAL

LICENSE NO. - 8901

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SUNSHINE WATER CONTROL DISTRICT

COUNTY	CLIENT
BROWARD	CRAIG A. SMITH & ASSOCIATES

SCALE: VERTICAL N.T.S.

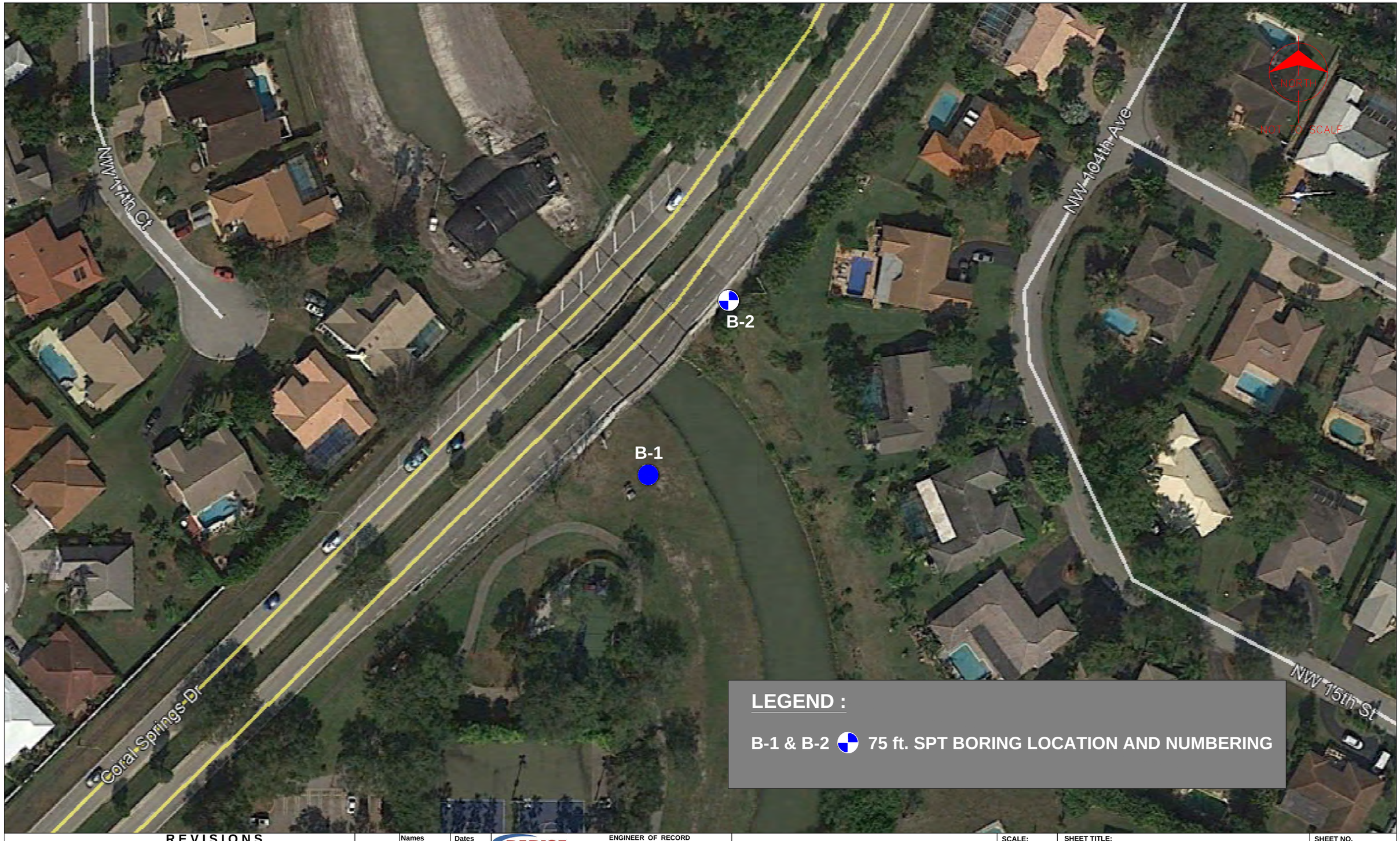
SCALE: HORIZONTAL N.T.S.

SHEET TITLE: VICINITY MAP

PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS BRIDGES

SHEET NO. 1

RADISE PROJECT NO: 191007



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BROWARD	CRAIG A. SMITH & ASSOCIATES

SCALE: VERTICAL N.T.S.

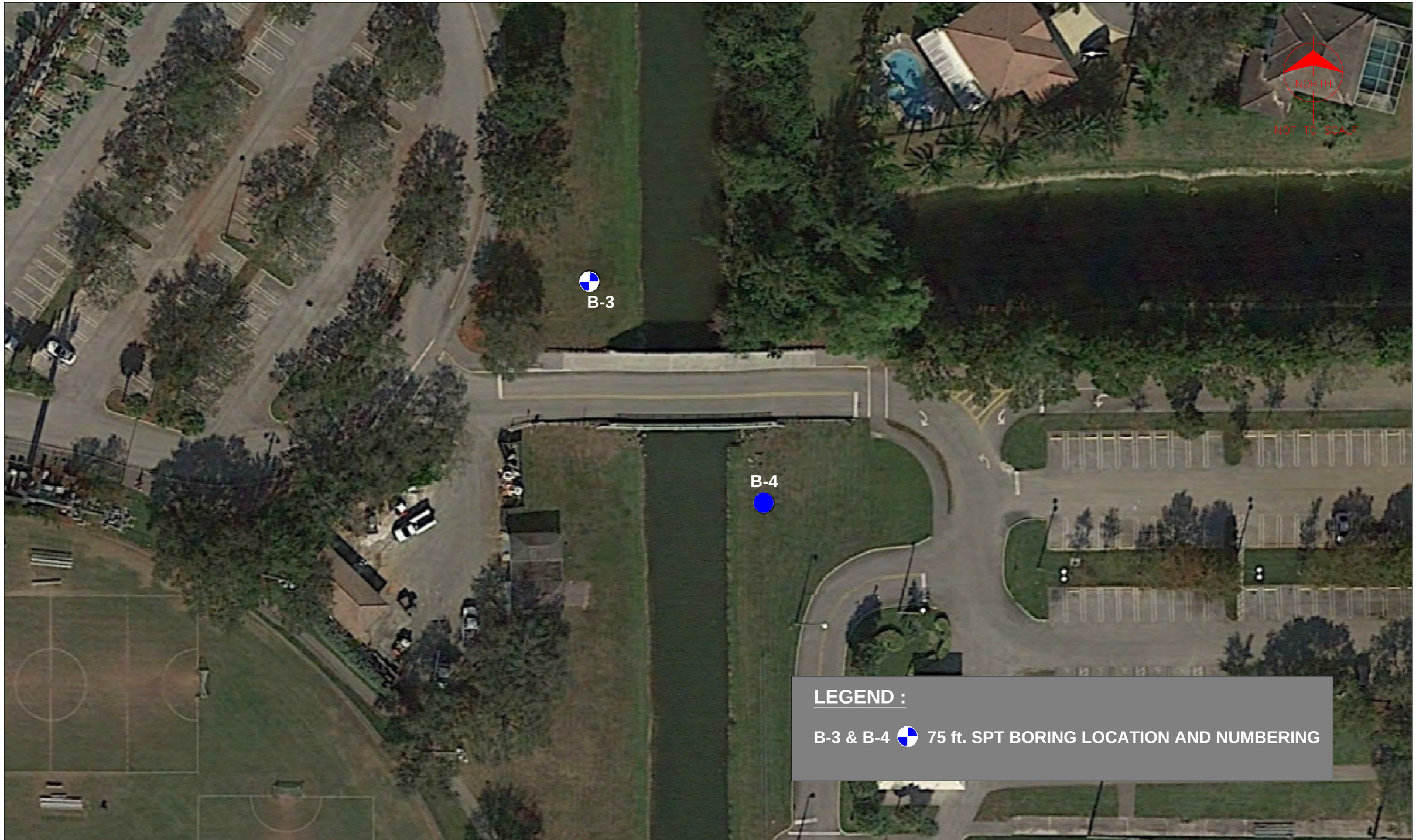
SCALE: HORIZONTAL N.T.S.

SHEET TITLE: BORING LOCATION PLAN

SHEET NO. 2A

PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS CORAL SPRINGS DRIVE VEHICULAR BRIDGE

RADISE PROJECT NO: 191007



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SCALE: VERTICAL N.T.S.

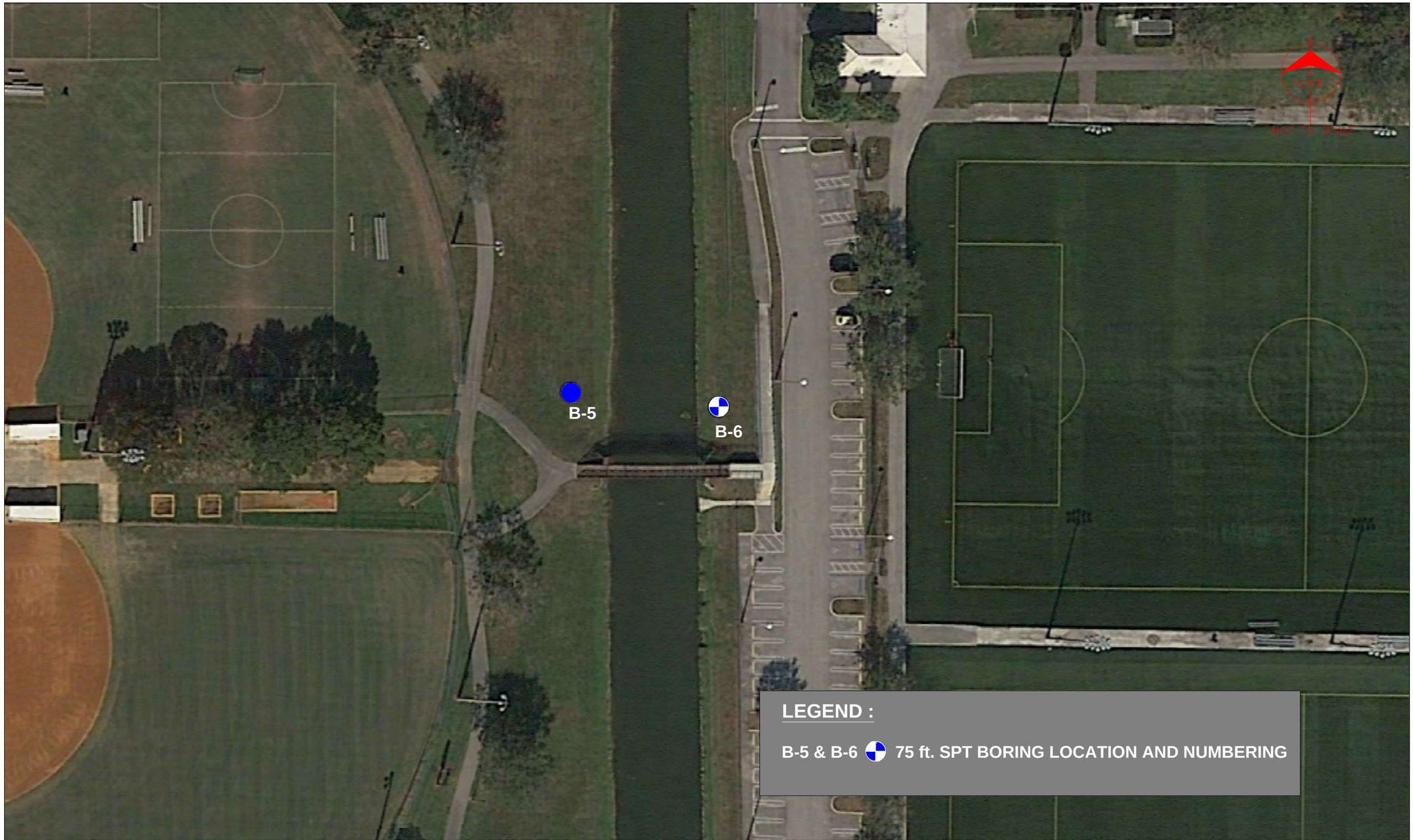
SCALE: HORIZONTAL N.T.S.

SHEET TITLE: BORING LOCATION PLAN

PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS CYPRESS PARK VEHICULAR BRIDGE

SHEET NO. 2B

RADISE PROJECT NO: 191007



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SUNSHINE WATER CONTROL DISTRICT

COUNTY	CLIENT
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SCALE: VERTICAL N.T.S.

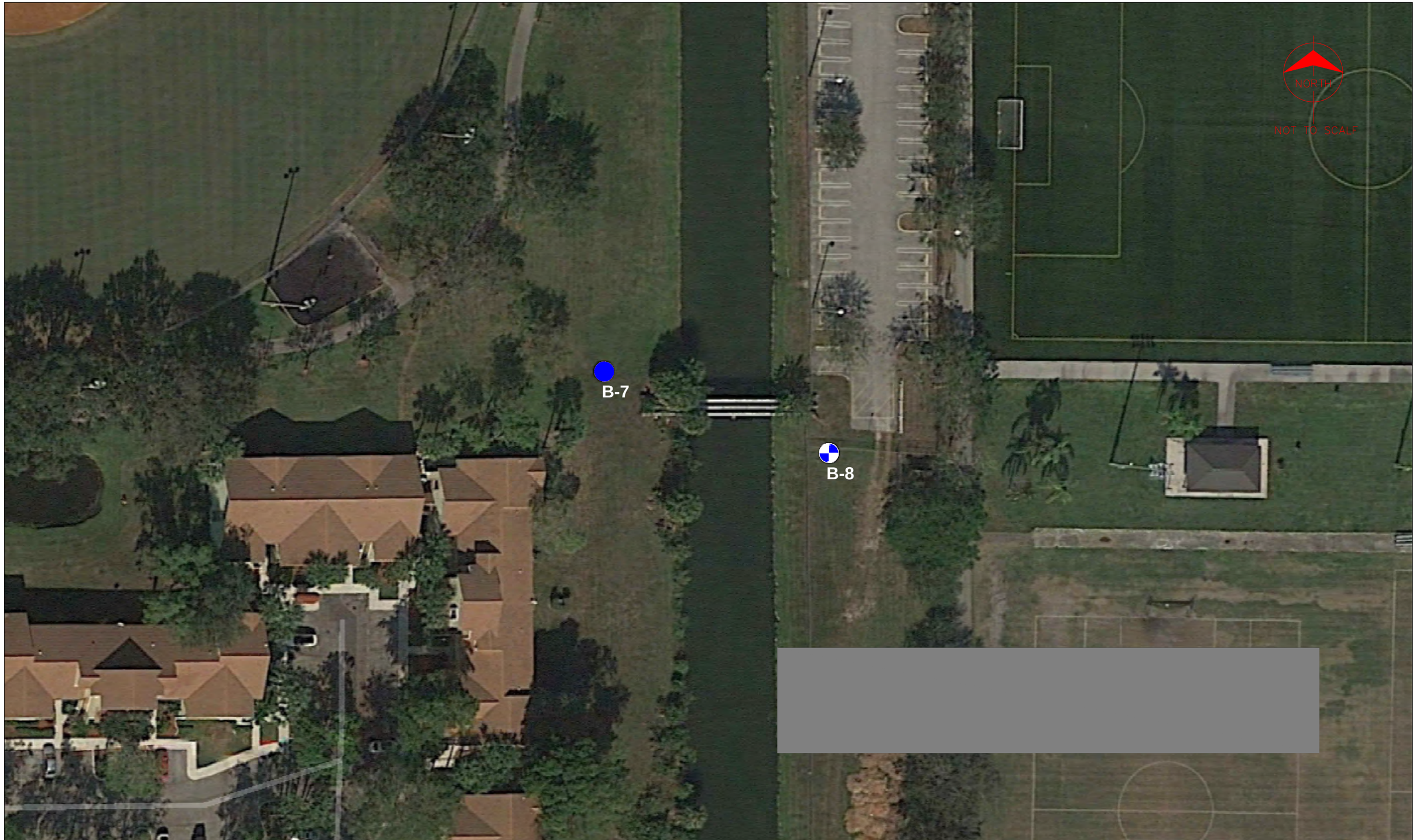
SCALE: HORIZONTAL N.T.S.

SHEET TITLE: BORING LOCATION PLAN

SHEET NO. 2C

PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS CYPRESS PARK PEDESTRIAN BRIDGE

RADISE PROJECT NO: 191007



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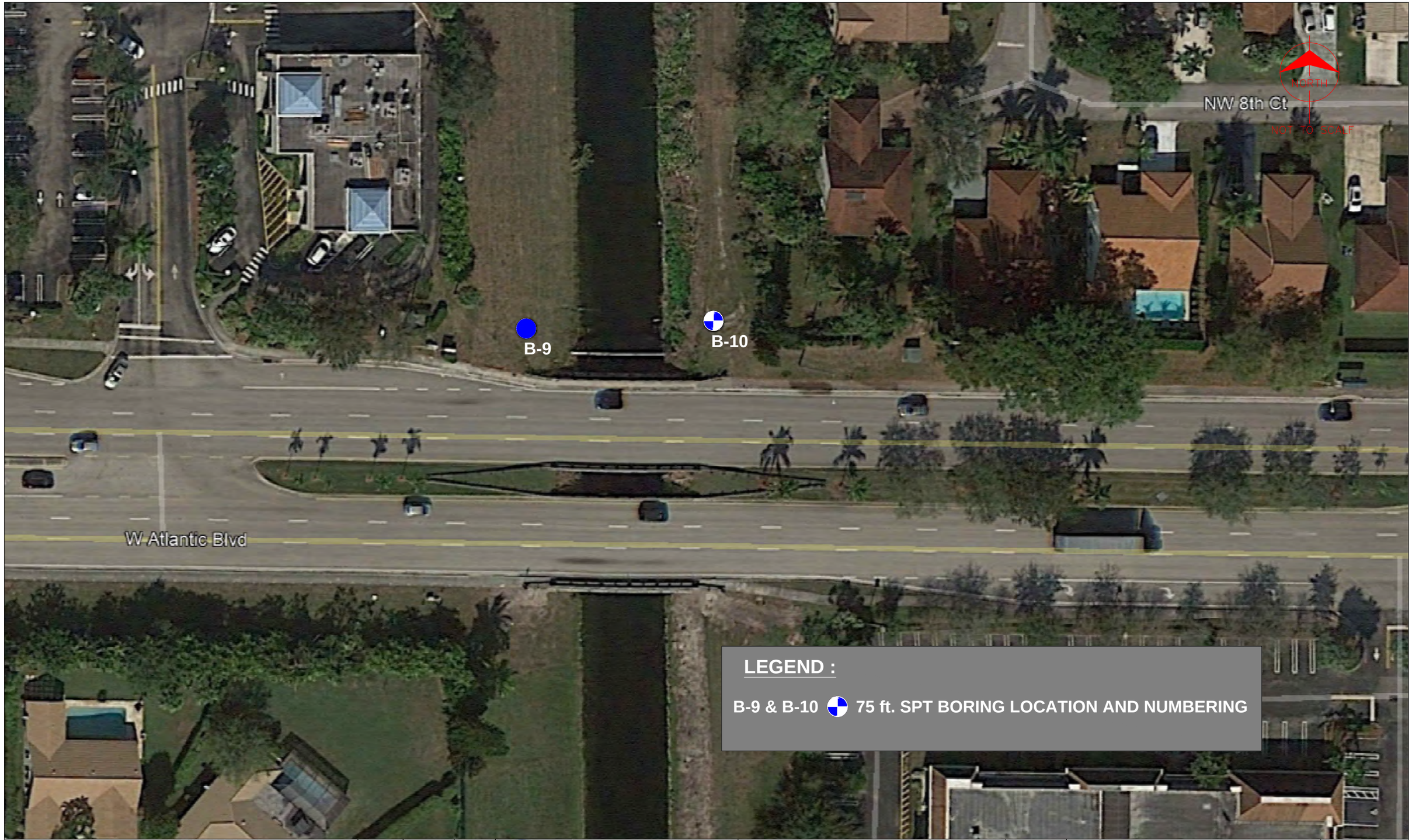
SCALE: HORIZONTAL N.T.S.

SHEET TITLE: BORING LOCATION PLAN

PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS CYPRESS CREEK UTILITY CROSSING

SHEET NO. 2D

RADISE PROJECT NO: 191007



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SUNSHINE WATER CONTROL DISTRICT

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BROWARD	CRAIG A. SMITH & ASSOCIATES

SCALE: VERTICAL N.T.S.

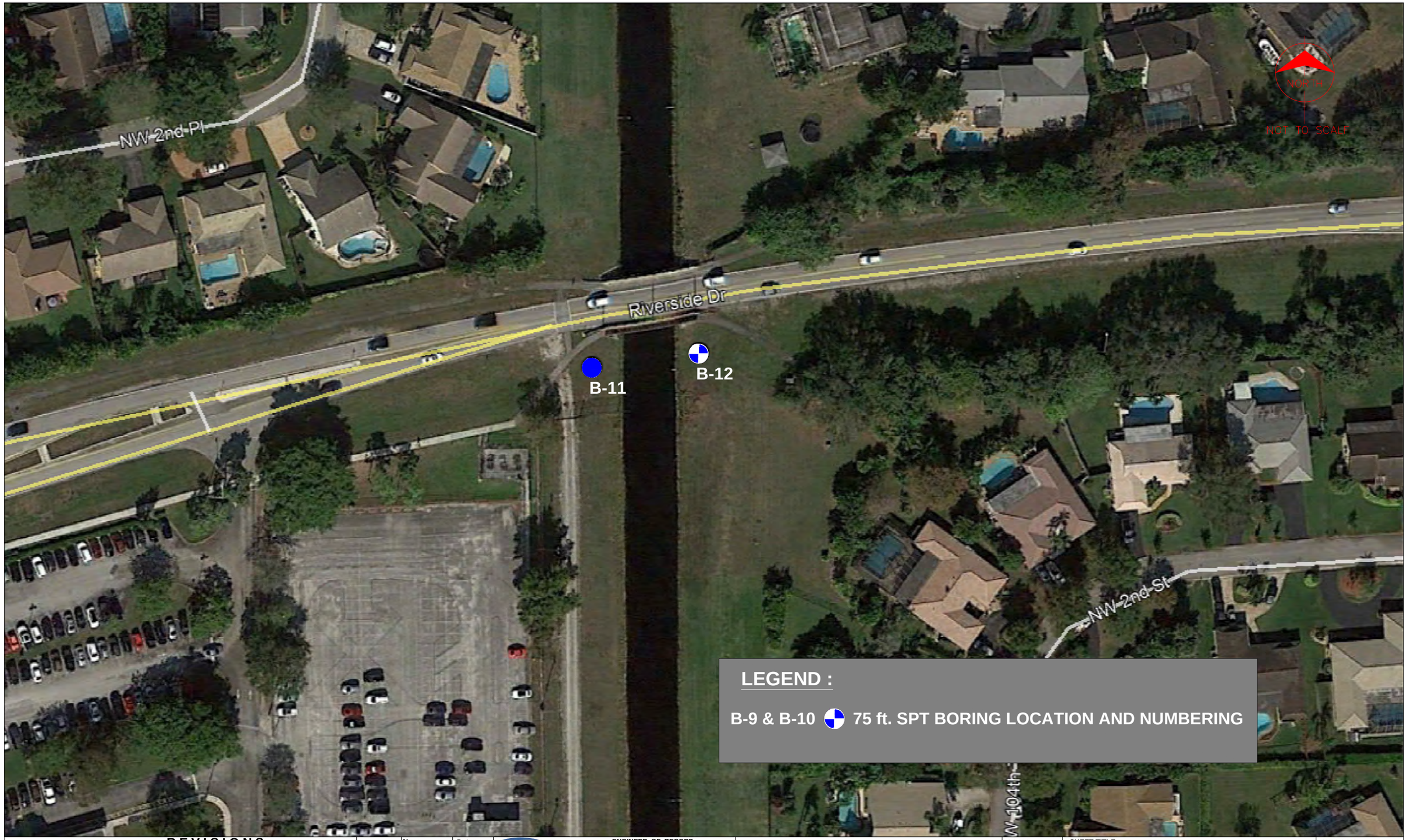
SCALE: HORIZONTAL N.T.S.

SHEET TITLE: BORING LOCATION PLAN

PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS ATLANTIC BOULEVARD VEHICULAR BRIDGE

SHEET NO. 2E

RADISE PROJECT NO: 191007



LEGEND :

B-9 & B-10 75 ft. SPT BORING LOCATION AND NUMBERING

REVISIONS							Names	Dates
Date.	By	Descriptions	Date.	By	Descriptions	Drawn by	AK	11/22/2019
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SUNSHINE WATER CONTROL DISTRICT

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BROWARD	CRAIG A. SMITH & ASSOCIATES

SCALE: VERTICAL N.T.S.

SCALE: HORIZONTAL N.T.S.

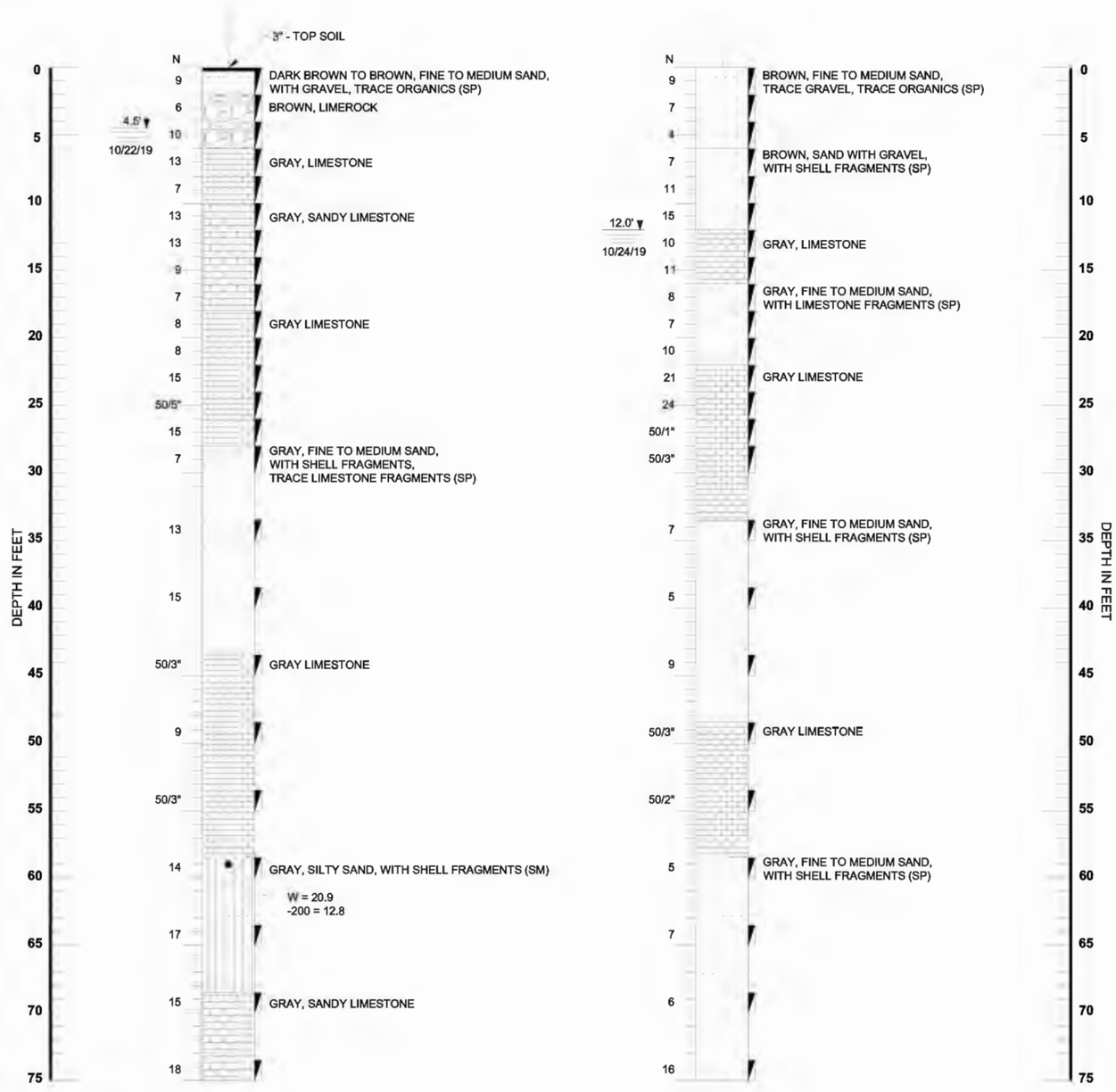
SHEET TITLE: BORING LOCATION PLAN

PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS RIVERSIDE DRIVE VEHICULAR BRIDGE

SHEET NO. 2F

RADISE PROJECT NO: 191007

	B-1	B-2
BORING NO.	B-1	B-2
LONGITUDE:	W -80.2662°	W -80.2660°
LATITUDE:	N 26.2509°	N 26.2513°
RIG:	CME 45	CME 45
HAMMER:	AUTO	AUTO
DRILLER:	T.FLICKING	T.FLICKING
DATE:	10/22/2019	10/24/2019



B.T. @ 75' BELOW EXISTING GRADES

B.T. @ 75' BELOW EXISTING GRADES

LEGEND

- SAND (SP, SP-SM)
- LIMEROCK
- TOPSOIL
- SANDY LIMESTONE
- SILTY SAND (SM)
- LIMESTONE

B.T @ 75'	BORING TERMINATED AT 75 FEET BELOW THE EXISTING GROUND SURFACE
B-1	STANDARD PENETRATION TEST (SPT) BORING AND NUMBER
N	STANDARD PENETRATION RESISTANCE-BLOWS PER FOOT USING AUTOMATIC HAMMER
	SAMPLING INTERVAL
4.5' ▼ 10/22/19	GROUNDWATER LEVEL IN FEET AND DRILLING DATE
W	MOISTURE CONTENT (%)
OC	ORGANIC CONTENT (%)
-200	AMOUNT PASSING US STANDARD 200 SIEVE (%)
SP, SP-SM	UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D 2487)

NOTES:

1. BORINGS WERE DRILLED BETWEEN 10/22/2019 AND 11/08/1
   SPT BORINGS WERE PERFORMED USING A CME-45C AUTOMATIC HAMMER DRILLING RIG (ASTM D1586)
2. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESEN
   SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. SOIL TRANSITIONS MAY BE MORE GRADUAL THAN IMPLIED.
3. GROUNDWATER LEVELS SHOWN ON THE SUBSURFACE PROFILES REPRESENT GROUNDWATER SURFACES ON TH DATES SHOWN. GROUNDWATER LEVEL FLUCTUATIONS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.
4. AFTER COMPLETION OF DRILLING, BOREHOLES WERE BACKFILLED WITH GROUT. ASPHALT PAVEMENT WAS PATCHED USING ASPHALT COLD PATCH, WHERE NECESS/

STANDARD PENETRATION TEST DATA *

SPOON INSIDE DIA.	1.375 INCH
SPOON OUTSIDE DIA.	2 INCHES
AVG. HAMMER DROP	30 INCHES
HAMMER WEIGHT	140 POUNDS
GRANULAR MATERIALS	AUTOMATIC HAMMER SPT N - VALUE
RELATIVE DENSITY	BLOWS/FOOT
VERY LOOSE	LESS THAN 3
LOOSE	3 - 8
MEDIUM	8 - 24
DENSE	24 - 40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS	AUTOMATIC HAMMER SPT N - VALUE
CONSISTENCY	BLOWS/FOOT
VERY SOFT	LESS THAN 1
SOFT	1 - 3
FIRM	3 - 6
STIFF	6 - 12
VERY STIFF	12 - 24
HARD	GREATER THAN 24

*FDOT SOILS AND FOUNDATIONS HANDBOOK 2018

REVISIONS

Date.	By	Descriptions	Date.	By	Descriptions

	Names	Dates
Drawn by	AK	11/21/2019
Checked by	NK	11/21/2019
Designed by	AB	11/21/2019
Checked by	AB	11/21/2019
Approved by		

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SUNSHINE WATER CONTROL DISTRICT

COUNTY	CLIENT
BROWARD	CRAIG A. SMITH & ASSOCIATES

SCALE: VERTICAL N.T.S.

SCALE: HORIZONTAL N.T.S.

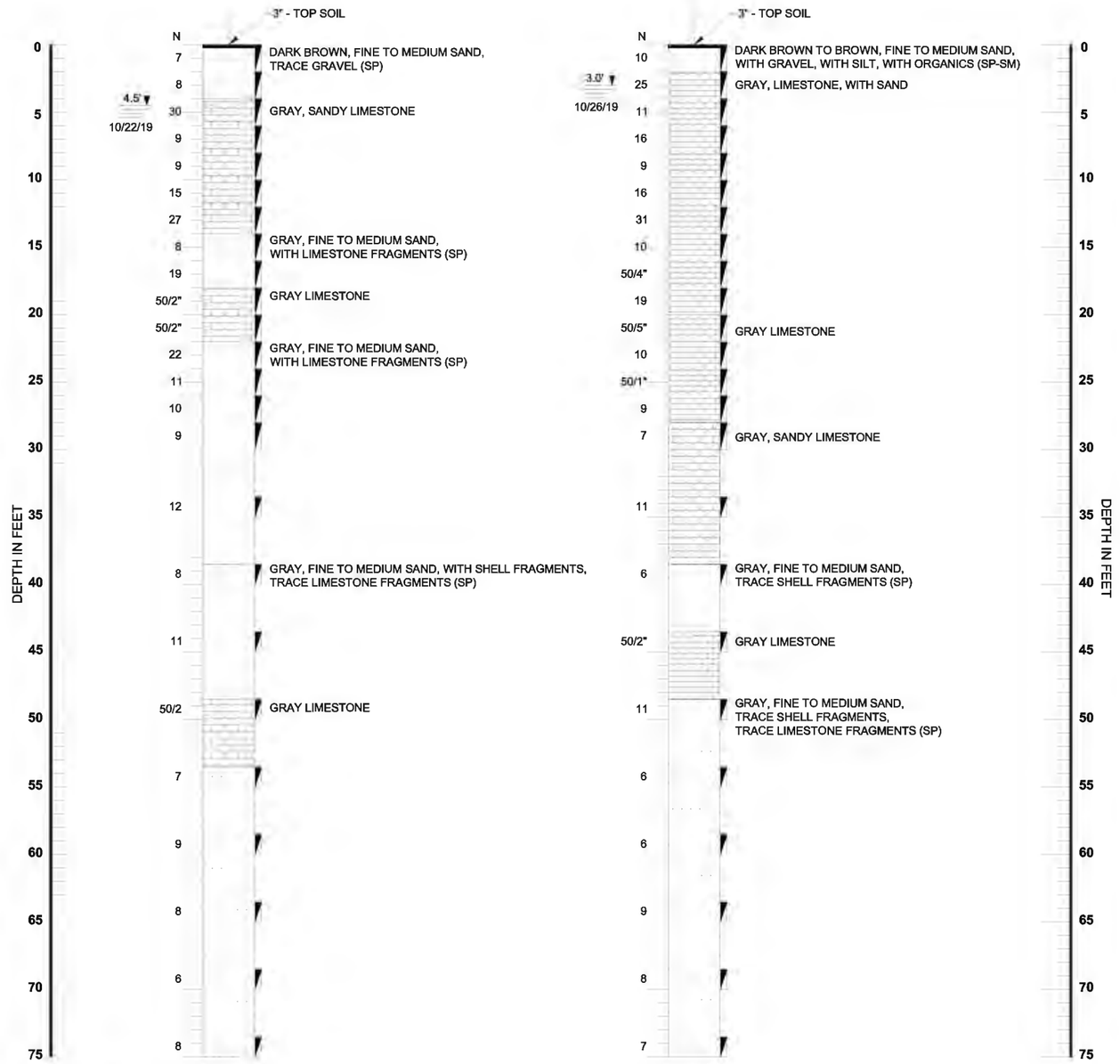
SHEET TITLE: **SUBSURFACE PROFILES**

SHEET NO. **3A**

PROJECT NAME: **WEST OUTFALL CANAL IMPROVEMENTS**
CORAL SPRINGS DRIVE VEHICULAR BRIDGE

RADISE PROJECT NO: **191007**

	B-3	B-4
BORING NO.	B-3	B-4
LONGITUDE:	W -80.2664°	W -80.2661°
LATITUDE:	N 26.2477°	N 26.2473°
RIG:	CME 45	CME 45
HAMMER:	AUTO	AUTO
DRILLER:	T.FLICKING	T.FLICKING
DATE:	10/22/2019	10/26/2019



B.T. @ 75'
BELOW EXISTING GRADES

B.T. @ 75'
BELOW EXISTING GRADES

LEGEND

SAND (SP, SP-SM)	LIMEROCK
TOPSOIL	SANDY LIMESTONE
SILTY SAND (SM)	LIMESTONE

B.T @ 75'	BORING TERMINATED AT 75 FEET BELOW THE EXISTING GROUND SURFACE
B-1	STANDARD PENETRATION TEST (SPT) BORING AND NUMBER
N	STANDARD PENETRATION RESISTANCE-BLOWS PER FOOT USING AUTOMATIC HAMMER
	SAMPLING INTERVAL
4.5' ▼ 10/22/19	GROUNDWATER LEVEL IN FEET AND DRILLING DATE
W	MOISTURE CONTENT (%)
OC	ORGANIC CONTENT (%)
-200	AMOUNT PASSING US STANDARD 200 SIEVE (%)
SP, SP-SM	UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D 2487)

NOTES:

1. BORINGS WERE DRILLED BETWEEN 10/22/2019 AND 11/08/1 SPT BORINGS WERE PERFORMED USING A CME-45C AUTOMATIC HAMMER DRILLING RIG (ASTM D1586)
2. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESEN SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. SOIL TRANSITIONS MAY BE MORE GRADUAL THAN IMPLIED.
3. GROUNDWATER LEVELS SHOWN ON THE SUBSURFACE PROFILES REPRESENT GROUNDWATER SURFACES ON TH DATES SHOWN. GROUNDWATER LEVEL FLUCTUATIONS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.
4. AFTER COMPLETION OF DRILLING, BOREHOLES WERE BACKFILLED WITH GROUT. ASPHALT PAVEMENT WAS PATCHED USING ASPHALT COLD PATCH, WHERE NECESS/

STANDARD PENETRATION TEST DATA *

SPOON INSIDE DIA.	1.375 INCH
SPOON OUTSIDE DIA.	2 INCHES
AVG. HAMMER DROP	30 INCHES
HAMMER WEIGHT	140 POUNDS
GRANULAR MATERIALS	AUTOMATIC HAMMER SPT N - VALUE
RELATIVE DENSITY	BLOWS/FOOT
VERY LOOSE	LESS THAN 3
LOOSE	3 - 8
MEDIUM	8 - 24
DENSE	24 - 40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS	AUTOMATIC HAMMER SPT N - VALUE
CONSISTENCY	BLOWS/FOOT
VERY SOFT	LESS THAN 1
SOFT	1 - 3
FIRM	3 - 6
STIFF	6 - 12
VERY STIFF	12 - 24
HARD	GREATER THAN 24

*FDOT SOILS AND FOUNDATIONS HANDBOOK 2018

REVISIONS

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Drawn by	AK	11/22/2019
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Approved by		

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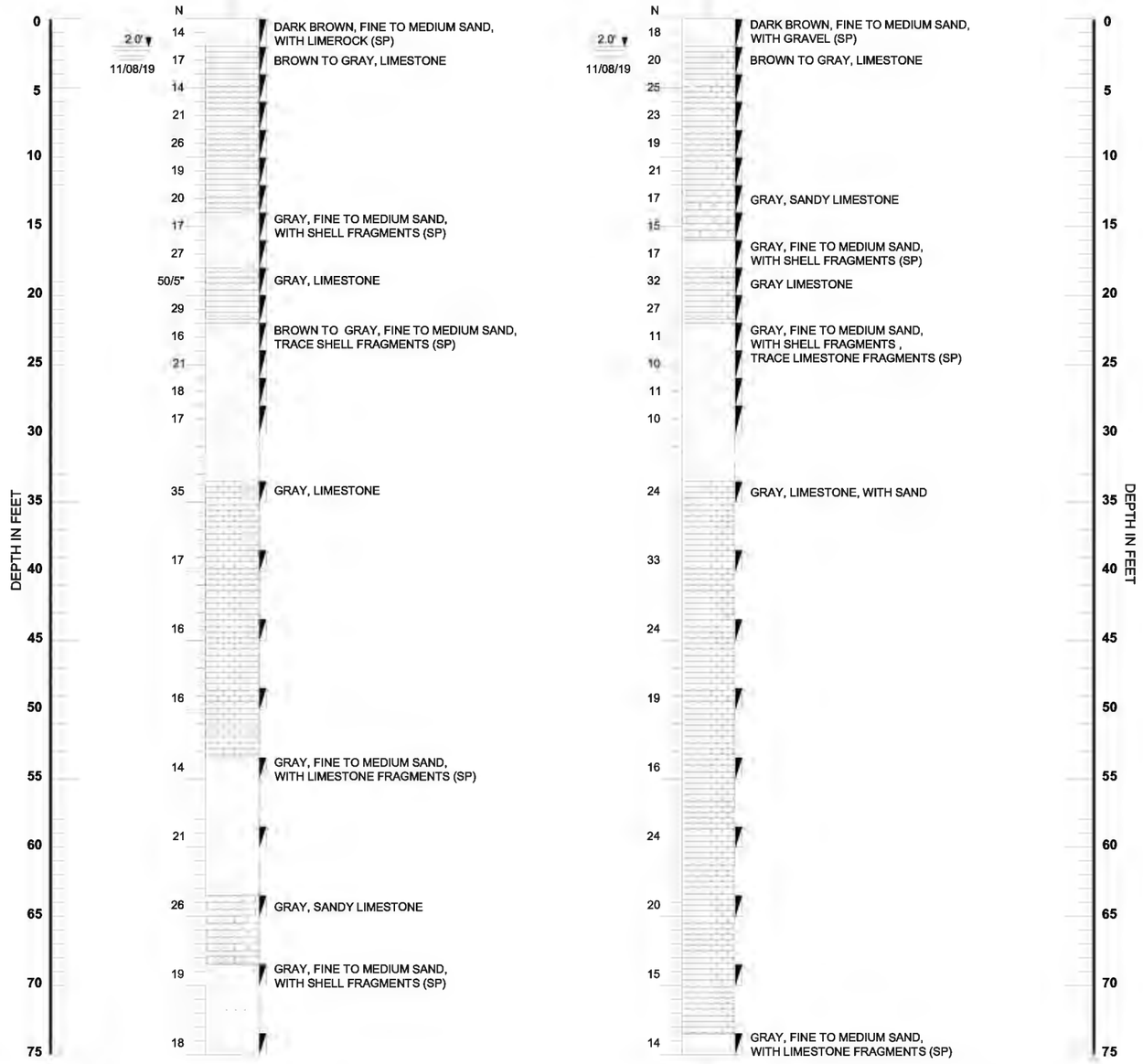
SUNSHINE WATER CONTROL DISTRICT

COUNTY	CLIENT
BROWARD	CRAIG A. SMITH & ASSOCIATES

SCALE: VERTICAL N.T.S.
SCALE: HORIZONTAL N.T.S.

SHEET TITLE: SUBSURFACE PROFILES
SHEET NO. 3B
PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS CYPRESS PARK VEHICULAR BRIDGE
RADISE PROJECT NO: 191007

	B-5	B-6
BORING NO.	B-5	B-6
LONGITUDE:	W -80.2663°	W -80.2661°
LATITUDE:	N 26.2465°	N 26.2465°
RIG:	CME 45	CME 45
HAMMER:	AUTO	AUTO
DRILLER:	T.FLICKING	T.FLICKING
DATE:	11/08/2019	11/08/2019



B.T. @ 75'
BELOW EXISTING GRADES

B.T. @ 75'
BELOW EXISTING GRADES

LEGEND

- SAND (SP, SP-SM)
- TOPSOIL
- SILTY SAND (SM)
- LIMEROCK
- SANDY LIMESTONE
- LIMESTONE

B.T @ 75'	BORING TERMINATED AT 75 FEET BELOW THE EXISTING GROUND SURFACE
B-1	STANDARD PENETRATION TEST (SPT) BORING AND NUMBER
N	STANDARD PENETRATION RESISTANCE-BLOWS PER FOOT USING AUTOMATIC HAMMER
	SAMPLING INTERVAL
4.5' ▼ 10/22/19	GROUNDWATER LEVEL IN FEET AND DRILLING DATE
W	MOISTURE CONTENT (%)
OC	ORGANIC CONTENT (%)
-200	AMOUNT PASSING US STANDARD 200 SIEVE (%)
SP, SP-SM	UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D 2487)

NOTES:

1. BORINGS WERE DRILLED BETWEEN 10/22/2019 AND 11/08/1 SPT BORINGS WERE PERFORMED USING A CME-45C AUTOMATIC HAMMER DRILLING RIG (ASTM D1586)
2. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESEN SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. SOIL TRANSITIONS MAY BE MORE GRADUAL THAN IMPLIED.
3. GROUNDWATER LEVELS SHOWN ON THE SUBSURFACE PROFILES REPRESENT GROUNDWATER SURFACES ON TH DATES SHOWN. GROUNDWATER LEVEL FLUCTUATIONS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.
4. AFTER COMPLETION OF DRILLING, BOREHOLES WERE BACKFILLED WITH GROUT. ASPHALT PAVEMENT WAS PATCHED USING ASPHALT COLD PATCH, WHERE NECESS/

STANDARD PENETRATION TEST DATA *

SPOON INSIDE DIA.	1.375 INCH
SPOON OUTSIDE DIA.	2 INCHES
AVG. HAMMER DROP	30 INCHES
HAMMER WEIGHT	140 POUNDS
GRANULAR MATERIALS	AUTOMATIC HAMMER SPT N - VALUE
RELATIVE DENSITY	BLOWS/FOOT
VERY LOOSE	LESS THAN 3
LOOSE	3 - 8
MEDIUM	8 - 24
DENSE	24 - 40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS	AUTOMATIC HAMMER SPT N - VALUE
CONSISTENCY	BLOWS/FOOT
VERY SOFT	LESS THAN 1
SOFT	1 - 3
FIRM	3 - 6
STIFF	6 - 12
VERY STIFF	12 - 24
HARD	GREATER THAN 24

*FDOT SOILS AND FOUNDATIONS HANDBOOK 2018

REVISIONS

Date.	By	Descriptions	Date.	By	Descriptions

	Names	Dates
Drawn by	AK	11/22/2019
Checked by	NK	11/22/2019
Designed by	AB	11/22/2019
Checked by	AB	11/22/2019
Approved by		

RADISE INTERNATIONAL
LICENSE NO. - 8901

ENGINEER OF RECORD
ANDREW NIXON (P.E.No. - 71458)
RADISE International
4152 West Blue Heron Boulevard, Suite 1114
Riviera Beach, Florida. 33404
TEL 561-841-0103 FAX 561-841-0104
URL : http:// www.radise.net

SUNSHINE WATER CONTROL DISTRICT

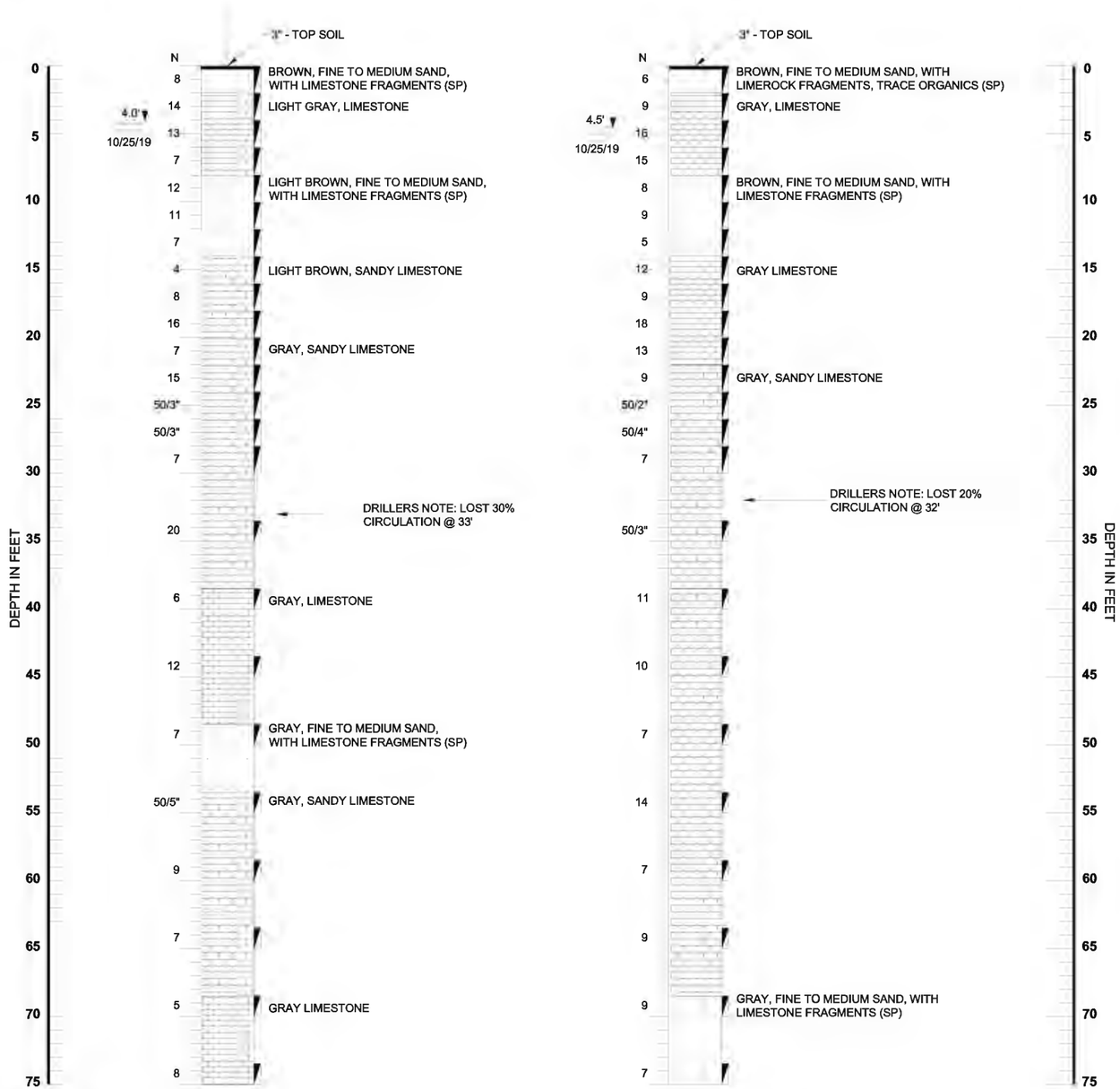
COUNTY	CLIENT
BROWARD	CRAIG A. SMITH & ASSOCIATES

SCALE: VERTICAL N.T.S.
SCALE: HORIZONTAL N.T.S.

SHEET TITLE: SUBSURFACE PROFILES
SHEET NO. 3C

PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS
CYPRESS PARK PEDESTRIAN BRIDGE
RADISE PROJECT NO: 191007

	B-7	B-8
BORING NO.	B-7	B-8
LONGITUDE:	W -80.2664°	W -80.2660°
LATITUDE:	N 26.2454°	N 26.2453°
RIG:	CME 45	CME 45
HAMMER:	AUTO	AUTO
DRILLER:	T.FLICKING	T.FLICKING
DATE:	10/25/2019	10/25/2019



B.T. @ 75'
BELOW EXISTING GRADES

B.T. @ 75'
BELOW EXISTING GRADES

LEGEND

- SAND (SP, SP-SM)
- TOPSOIL
- SILTY SAND (SM)
- LIMEROCK
- SANDY LIMESTONE
- LIMESTONE

B.T @ 75'	BORING TERMINATED AT 75 FEET BELOW THE EXISTING GROUND SURFACE
B-1	STANDARD PENETRATION TEST (SPT) BORING AND NUMBER
N	STANDARD PENETRATION RESISTANCE-BLOWS PER FOOT USING AUTOMATIC HAMMER
	SAMPLING INTERVAL
4.5' ▼ 10/22/19	GROUNDWATER LEVEL IN FEET AND DRILLING DATE
W	MOISTURE CONTENT (%)
OC	ORGANIC CONTENT (%)
-200	AMOUNT PASSING US STANDARD 200 SIEVE (%)
SP, SP-SM	UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D 2487)

NOTES:

1. BORINGS WERE DRILLED BETWEEN 10/22/2019 AND 11/08/1 SPT BORINGS WERE PERFORMED USING A CME-45C AUTOMATIC HAMMER DRILLING RIG (ASTM D1586)
2. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESEN SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. SOIL TRANSITIONS MAY BE MORE GRADUAL THAN IMPLIED.
3. GROUNDWATER LEVELS SHOWN ON THE SUBSURFACE PROFILES REPRESENT GROUNDWATER SURFACES ON TH DATES SHOWN. GROUNDWATER LEVEL FLUCTUATIONS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.
4. AFTER COMPLETION OF DRILLING, BOREHOLES WERE BACKFILLED WITH GROUT. ASPHALT PAVEMENT WAS PATCHED USING ASPHALT COLD PATCH, WHERE NECESS/

STANDARD PENETRATION TEST DATA *

SPOON INSIDE DIA.	1.375 INCH
SPOON OUTSIDE DIA.	2 INCHES
AVG. HAMMER DROP	30 INCHES
HAMMER WEIGHT	140 POUNDS
GRANULAR MATERIALS	AUTOMATIC HAMMER SPT N - VALUE
RELATIVE DENSITY	BLOWS/FOOT
VERY LOOSE	LESS THAN 3
LOOSE	3 - 8
MEDIUM	8 - 24
DENSE	24 - 40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS	AUTOMATIC HAMMER SPT N - VALUE
CONSISTENCY	BLOWS/FOOT
VERY SOFT	LESS THAN 1
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FIRM	3 - 6
STIFF	6 - 12
VERY STIFF	12 - 24
HARD	GREATER THAN 24

*FDOT SOILS AND FOUNDATIONS HANDBOOK 2018

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SUNSHINE WATER CONTROL DISTRICT

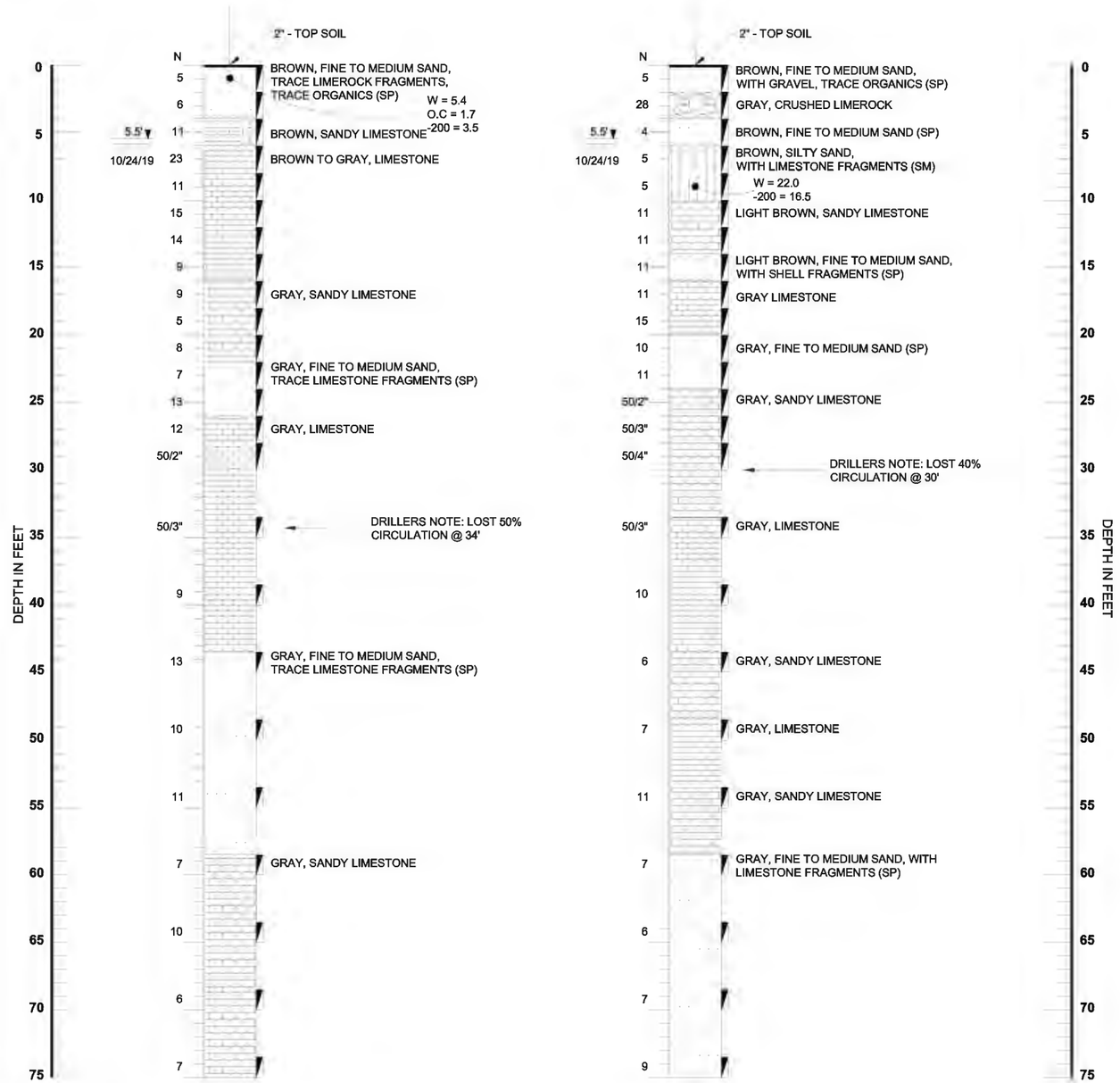
COUNTY	CLIENT
BROWARD	CRAIG A. SMITH & ASSOCIATES

SCALE: VERTICAL N.T.S.
SCALE: HORIZONTAL N.T.S.

SHEET TITLE: SUBSURFACE PROFILES
SHEET NO. 3D

PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS
CYPRESS CREEK AERIAL UTILITY CROSSING
RADISE PROJECT NO: 191007

	B-9	B-10
BORING NO.	B-9	B-10
LONGITUDE:	W -80.2663°	W -80.2660°
LATITUDE:	N 26.2409°	N 26.2409°
RIG:	CME 45	CME 45
HAMMER:	AUTO	AUTO
DRILLER:	T.FLICKING	T.FLICKING
DATE:	10/24/2019	10/24/2019



LEGEND

SAND (SP, SP-SM)
LIMEROCK
TOPSOIL
SANDY LIMESTONE
SILTY SAND (SM)
LIMESTONE

B.T @ 75'	BORING TERMINATED AT 75 FEET BELOW THE EXISTING GROUND SURFACE
B-1	STANDARD PENETRATION TEST (SPT) BORING AND NUMBER
N	STANDARD PENETRATION RESISTANCE-BLOWS PER FOOT USING AUTOMATIC HAMMER
	SAMPLING INTERVAL
4.5'▼ 10/22/19	GROUNDWATER LEVEL IN FEET AND DRILLING DATE
W	MOISTURE CONTENT (%)
OC	ORGANIC CONTENT (%)
-200	AMOUNT PASSING US STANDARD 200 SIEVE (%)
SP, SP-SM	UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D 2487)

NOTES:

1. BORINGS WERE DRILLED BETWEEN 10/22/2019 AND 11/08/1 SPT BORINGS WERE PERFORMED USING A CME-45C AUTOMATIC HAMMER DRILLING RIG (ASTM D1586)
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4. AFTER COMPLETION OF DRILLING, BOREHOLES WERE BACKFILLED WITH GROUT. ASPHALT PAVEMENT WAS PATCHED USING ASPHALT COLD PATCH, WHERE NECESS/

STANDARD PENETRATION TEST DATA *

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SPOON OUTSIDE DIA.	2 INCHES
AVG. HAMMER DROP	30 INCHES
HAMMER WEIGHT	140 POUNDS
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RELATIVE DENSITY	BLOWS/FOOT
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FIRM	3 - 6
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VERY STIFF	12 - 24
HARD	GREATER THAN 24

*FDOT SOILS AND FOUNDATIONS HANDBOOK 2018

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Approved by		

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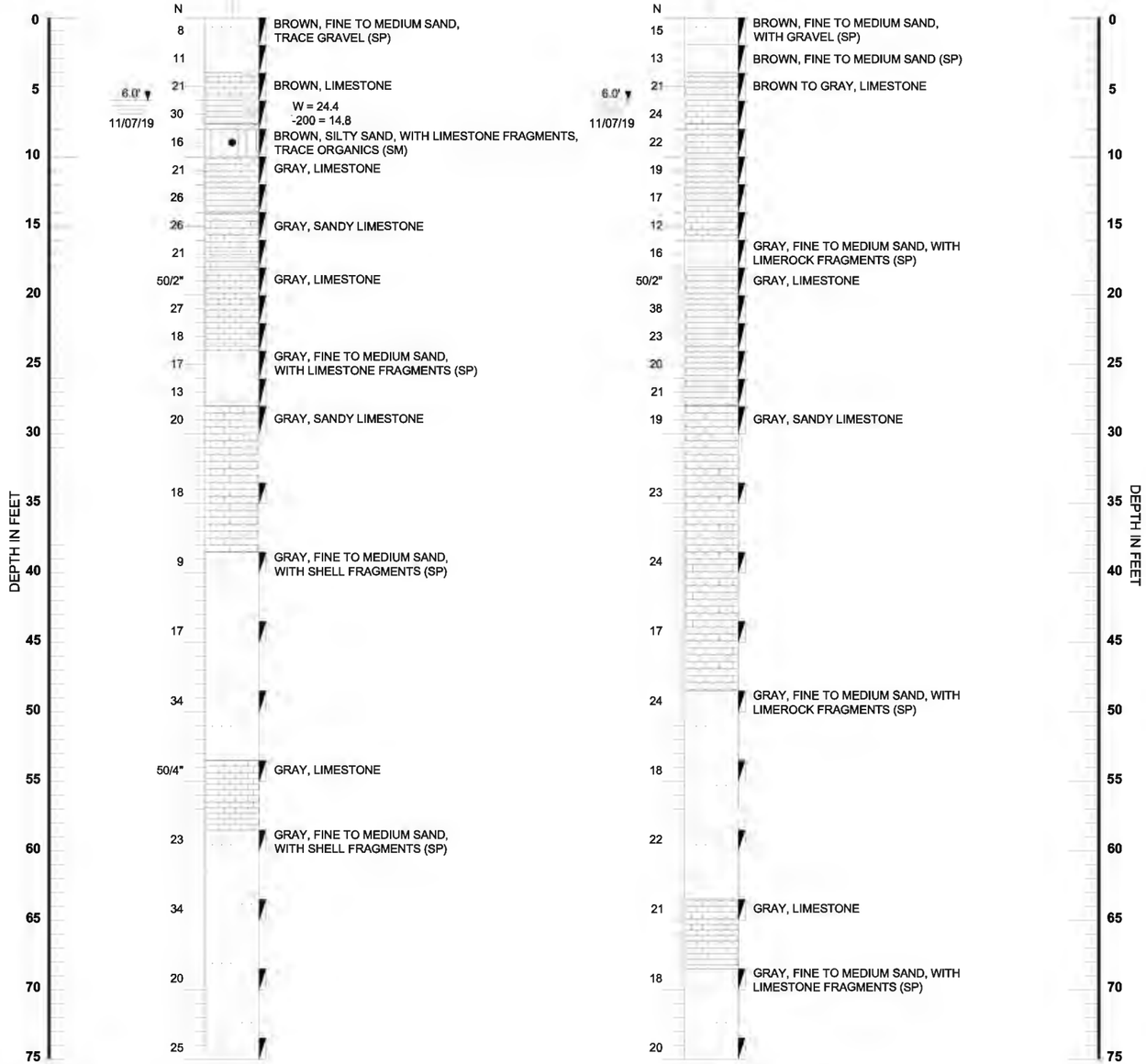
SUNSHINE WATER CONTROL DISTRICT

COUNTY	CLIENT
BROWARD	CRAIG A. SMITH & ASSOCIATES

SCALE: VERTICAL N.T.S.
SCALE: HORIZONTAL N.T.S.

SHEET TITLE: SUBSURFACE PROFILES
SHEET NO. 3E
PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS ATLANTIC BOULEVARD VEHICULAR BRIDGE
RADISE PROJECT NO: 191007

	B-11	B-12
BORING NO.	B-11	B-12
LONGITUDE:	W -80.2661°	W -80.2659°
LATITUDE:	N 26.2338°	N 26.2338°
RIG:	CME 45	CME 45
HAMMER:	AUTO	AUTO
DRILLER:	T.FLICKING	T.FLICKING
DATE:	11/07/2019	11/07/2019



B.T. @ 75'
BELOW EXISTING GRADES

B.T. @ 75'
BELOW EXISTING GRADES

LEGEND

- SAND (SP, SP-SM)
- TOPSOIL
- SILTY SAND (SM)
- LIMEROCK
- SANDY LIMESTONE
- LIMESTONE

B.T @ 75'	BORING TERMINATED AT 75 FEET BELOW THE EXISTING GROUND SURFACE
B-1	STANDARD PENETRATION TEST (SPT) BORING AND NUMBER
N	STANDARD PENETRATION RESISTANCE-BLOWS PER FOOT USING AUTOMATIC HAMMER
	SAMPLING INTERVAL
4.5'▼ 10/22/19	GROUNDWATER LEVEL IN FEET AND DRILLING DATE
W	MOISTURE CONTENT (%)
OC	ORGANIC CONTENT (%)
-200	AMOUNT PASSING US STANDARD 200 SIEVE (%)
SP, SP-SM	UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D 2487)

NOTES:

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STANDARD PENETRATION TEST DATA *

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SPOON OUTSIDE DIA.	2 INCHES
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HAMMER WEIGHT	140 POUNDS
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SUNSHINE WATER CONTROL DISTRICT

COUNTY	CLIENT
BROWARD	CRAIG A. SMITH & ASSOCIATES

SCALE: VERTICAL N.T.S.
SCALE: HORIZONTAL N.T.S.

SHEET TITLE: SUBSURFACE PROFILES
SHEET NO. 3F
PROJECT NAME: WEST OUTFALL CANAL IMPROVEMENTS RIVERSIDE DRIVE VEHICULAR BRIDGE
RADISE PROJECT NO: 191007

Table 1: Summary of Laboratory Test Results

Project Name: SWCD West Outfall Canal Improvements

Project ID: 191007

						ATTERBERG LIMITS			GRAIN SIZE ANALYSIS U.S STANDARD SIEVE SIZE (% Passing)									
Boring No	**Sample Depth**	**Soil Classification**	**Moisture Content (%)**	**Organic Content (%)**	**-200**	**LL (%)**	**PL (%)**	**PI**	**3/8"**	**#4**	**#10**	**#20**	**#40**	**#50**	**#60**	**#100**	**#140**	**#200**
B-1	58.5-60'	SM	20.9	-	12.8	-	-	-	90.1	83.4	78.3	74.8	70.1	64.8	61.4	45.6	18.0	12.8
B-9	0-2'	SP	5.4	1.7	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-
B-10	8-10'	SM	22	-	16.5	-	-	-	96.1	91.7	88.6	84.6	74.5	59.6	50.0	26.2	18.2	16.5
B-11	8-10'	SM	24.4	-	14.8	-	-	-	81.4	72.4	67.1	62.8	55.2	46.3	40.1	22.1	16.2	15.1

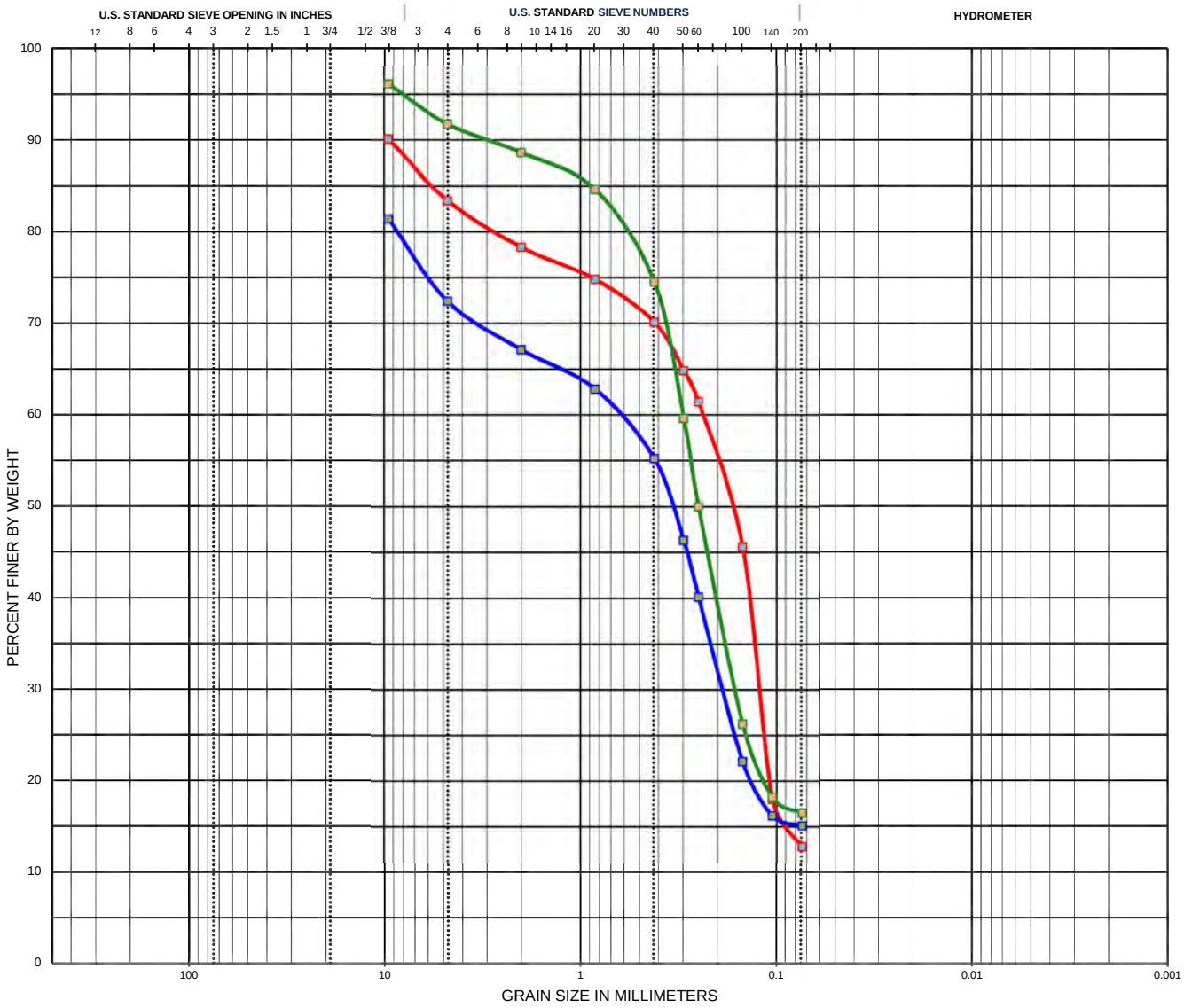
Notes:

Moisture Content tested in accordance ASTM-D2216,
Organic Content tests are performed with furnace temperature @450 Celsius and tested accordance ASTM-D2974,
Soil Classification tested with accordance to ASTM D 2487,
Grain Size Analysis was tested in general accordance with ASTM-D422,
Fines Content (Passing No. 200 Sieve) was tested in general accordance with ASTM D 1140,

GRAIN SIZE DISTRIBUTION

CLIENT NAME CAS **PROJECT NAME** SWCD West Outfall Canal Improvements

PROJECT NUMBER 191007



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring No, Depth	Classification	LL	PL	PI	Cc	Cu
B-1 , 58.5-60'	**Silty sand (SM)**	**NP**	**NP**	**NP**	**0**	**0**
B-10 , 8-10'	**Silty sand (SM)**	**NP**	**NP**	**NP**	**0**	**0**
B-11 , 8-10'	**Silty sand (SM)**	**NP**	**NP**	**NP**	**0**	**0**

Boring No, Depth	D100	D60	D30	D10	% Cobble	%Gravel	%Sand	%Silt	%Clay
B-1 , 58.5-60'	**8.65**	**0.24**	**0.12**	**0**	**9.9**	**6.7**	**70.6**	**12.8**	
B-10 , 8-10'	**9.15**	**0.3**	**0.17**	**0**	**3.9**	**4.4**	**75.2**	**16.5**	
B-11 , 8-10'	**8.02**	**0.69**	**0.19**	**0**	**18.6**	**9**	**57.3**	**15.1**	

SUNSHINE
WATER CONTROL DISTRICT

9BIb

CRAIG A. SMITH & ASSOCIATES
21045 Commercial Trail • Boca Raton, FL 33486
CONSULTING ENGINEERS • SURVEYORS • UTILITY LOCATORS
www.craigasmith.com

December 19, 2019

Board of Supervisors
Sunshine Water Control District
2300 Glades Road, Suite 410W
Boca Raton, Florida 33073

RE: SWCD RIGHT-OF-WAY (R/W) PERMIT APPLICATION
FPL Pole Replacement – Stranahan River
Project Site: West of Holiday Springs Blvd; less than ¼ mile North of NW 29th St
CAS PROJECT NO. 15-1826

Dear Board of Supervisors:

We have reviewed a R/W permit application submitted by Florida Power & Light Company (FPL) for the installation of a new power pole adjacent to a District R/W (Stranahan River). The pole is to be located between two existing poles and be one foot off the existing pavement as shown in the attached sketch. The applicant has met SWCD applicable criteria and we recommend that the SWCD Board of Supervisors issue a Right-of-Way Permit to the applicant, subject to the following Special Conditions to be made part of the Permit:

1. All work must be in compliance with the latest SWCD Permit Criteria Manual.
2. Existing tree shall be removed from R/W prior to release of the trash bond and that any canal bank disturbance is restored to its existing or better condition with proper sodding.
3. Permittee will ensure that all necessary Sediment & Erosion Control devices will be utilized at the SWCD right-of-way during construction.
4. Trash bond ($2,500) shall be submitted prior to permit issuance and the Contractor shall repair and replace any SWCD facilities damaged during construction at no cost to the District.
5. All applicable permits and approvals for Work shall be obtained.
6. SWCD shall be notified at least 48 hours prior to construction.

This permit recommendation is planned to be submitted to the January 8, 2020 Regular Board Meeting and the applicant is advised that no construction is to take place until the Board takes a favorable action on this project.

Sincerely,

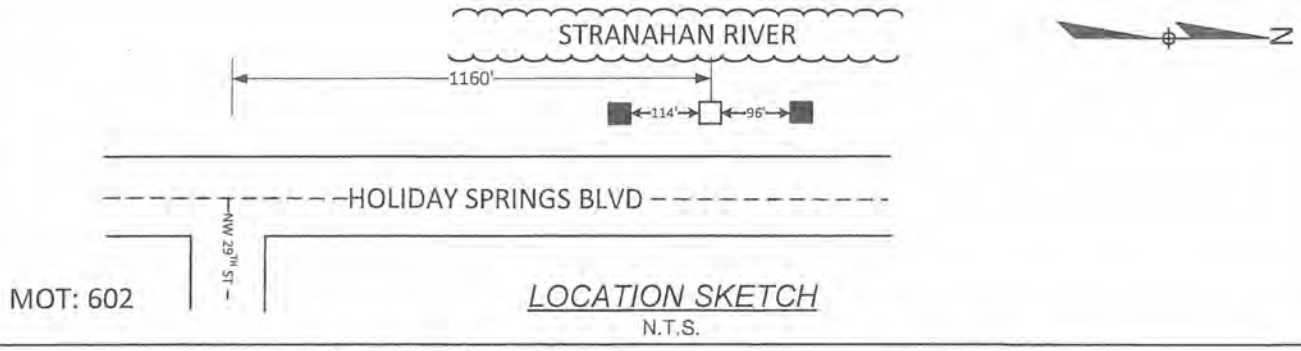
CRAIG A. SMITH & ASSOCIATES

Orlando A. Rubio, PE
Sr. Supervising Engineer

cc: FPL – Martha Parfait (via e-mail Martha.Parfait@fpl.com)
WHA - Cindy Cerbone, Debbie Tudor, Daphne Gillyard (via e-mail)
SWCD - Cory Selchan, Field Superintendent (via e-mail)
City of Coral Springs, Najla Zerrouki, PE, Alexander Hernandez (via e-mail)
CAS – Stephen C. Smith, PE, Jim Maguire (via e-mail)

P:\Districts\Sunshine_Water_Control\19-2064-1CP-SWSD Non recovery\01-RIGHT-OF-WAY\2019\FPL Pole Replacement Project\SWCD-FPL Pole Replacement_2019.12.19.docx

#	DATE	REVISION	BY	CH	COR	APP	RWO/SIO/ER



MOT: 602

LOCATION SKETCH
N.T.S.

NOTIFY SUNSHINE WATER CONTROL DISTRICT 48 HOURS PRIOR TO START OF CONSTRUCTION

LOC 1: PROPOSED 50/3H 8 KIP POLE

PLAN VIEW
N.T.S

PROFILE VIEW
LOOKING NORTH
N.T.S

FPL Construction Symbols

- PROPOSED WOOD POLE
- EXISTING WOOD POLE
- PROPOSED CONCRETE POLE
- EXISTING CONCRETE POLE
- PROPOSED OVERHEAD WIRE
- EXISTING OVERHEAD WIRE
- EXISTING TRANSFORMER
- PROPOSED TRANSFORMER
- EXISTING ANCHOR
- PROPOSED ANCHOR
- PROPOSED FUSE SWITCH
- EXISTING FUSE SWITCH
- PROPOSED SPLICE BOX (5'X10')
- EXISTING SPLICE BOX (5'X10')
- PROPOSED DISCONNECT SWITCH
- EXISTING DISCONNECT SWITCH

FOREIGN UTILITIES

STM. SWR	STM. SWR
CATV	GAS
WATER	[illegible]

American Disabilities Act
If pole placement location does not meet the minimum single point distance of 32" from edge of curb or back of sidewalk, contact your Production Lead, for further instructions.

DEPTHS OF OTHER UG UTILITIES ARE UNKNOWN. LOCATES REQUIRED BEFORE DIGGING. MAINTAIN MIN. 12" VERTICAL AND 5' HORIZONTAL CLEARANCE

Sunshine811
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.
Check positive response codes before you dig!

M/A: NB	Township: 48 Range: 41 Section 22
AFS19OH - 2019 AFS PLAN- MARGATE SUB FEEDER 702237 INST 1 AFS- I.R.	
Dwg No. 8681060_11x17 AFS.xml	Map No. AG0349
WR: 8681060	Page 1 of 3

DRAWN BY	CHECKED	CORRECT	APP.
CHANG, K.			

SUNSHINE WATER CONTROL

SUNSHINE
WATER CONTROL DISTRICT

9E

SUNSHINE WATER CONTROL DISTRICT

BOARD OF SUPERVISORS FISCAL YEAR 2019/2020 MEETING SCHEDULE

LOCATION

Sartory Hall, located in Mullins Park, 10150 NW 29 St. (Ben Geiger Drive) Coral Springs, Florida 33065

DATE	POTENTIAL DISCUSSION/FOCUS	TIME
October 9, 2019	Regular Meeting	6:30 PM
November 13, 2019	Regular Meeting	6:30 PM
November 20, 2019	Continued Meeting	6:00 PM
December 4, 2019	Regular Meeting	6:30 PM
January 8, 2020	Regular Meeting	6:30 PM
February 12, 2020	Regular Meeting	6:30 PM
March 11, 2020	Landowners' Meeting & Regular Meeting	6:30 PM
April 8, 2020	Regular Meeting	6:30 PM
May 13, 2020	Regular Meeting	6:30 PM
June 17, 2020	Regular Meeting	6:30 PM
July 8, 2020	Regular Meeting	6:30 PM
August 12, 2020	Regular Meeting	6:30 PM
September 9, 2020	Public Hearing & Regular Meeting	6:30 PM