

## Mandatory Questions

These questions are Pass/Fail. To be considered responsive, responsible and eligible for award, you must answer all questions in this section.

**DO NOT INCLUDE ANY COST INFORMATION IN YOUR RESPONSE TO THIS WORKSHEET.**

Question #	Questions per Proposal Factors/Categories	Response by Offeror. Only Yes or No Answers	Upload Attachments ?	Attachment Name
<b>Proposal Factors</b>				
1	List any criminal violations and/or convictions of the Proposer and/or any of its principals: (N/A is not an acceptable answer).	No	IF YES	
2	Completed and uploaded PSL Location Form	Yes	IF YES	File #4 Other Mandatory Documents
3	Is firm a minority business?	No	IF YES	
4	Is the firm incorporated? Yes--No If yes, in what state?	Yes, California	No	
5	List any judgements from lawsuits in the last five (5) years: (N/A is not an acceptable answer).	No	IF YES	
6	List any lawsuits pending or completed within the past five (5) years involving the corporation, partnership or individuals with more than ten percent (10%) interest: (N/A is not an acceptable answer).	Yes	IF YES	File #4 Other Mandatory Documents
7	Has the Proposer or any of its principals ever been declared bankrupt or reorganized under Chapter 11 or put into receivership?	No	IF YES	
8	Submitted all licenses and certifications required to perform this project.	Yes	Yes	File #4 Other Mandatory Documents
9	Submitted a copy of their Insurance Certificate for the type and dollar amount of insurance they <u>currently maintain</u> .	Yes	Yes	File #4 Other Mandatory Documents
10	Completed and uploaded E-Verify Form	Yes	Yes	File #4 Other Mandatory Documents
11	Completed and uploaded Drug Free Workplace Form	Yes	Yes	File #4 Other Mandatory Documents
12	Completed and uploaded Consultant Code of Ethics	Yes	Yes	File #4 Other Mandatory Documents
13	Completed and uploaded Non-Collusion Affidavit	Yes	Yes	File #4 Other Mandatory Documents
14	Completed and uploaded Cone of Silence Form	Yes	Yes	File #4 Other Mandatory Documents
15	Completed and uploaded Truth-In Negotiation Form	Yes	Yes	File #4 Other Mandatory Documents

**Attachment A - Mandatory Questions**

16	Submit W-9	Yes	Yes	File #4 Other Mandatory Documents
17	Completed and uploaded Mandatory Scored Questions	Yes	Yes	File #2 Mandatory Scored Questions
18	Completed and uploaded Contractor General Information Worksheet.	Yes	Yes	File #4 Other Mandatory Documents

**Attachment B - Mandatory Scored Questions**

**Mandatory Scored Questions**

Offerors must answer all the questions in this spreadsheet in the cell provided.

Failure to answer these questions will result in disqualification of the proposal.

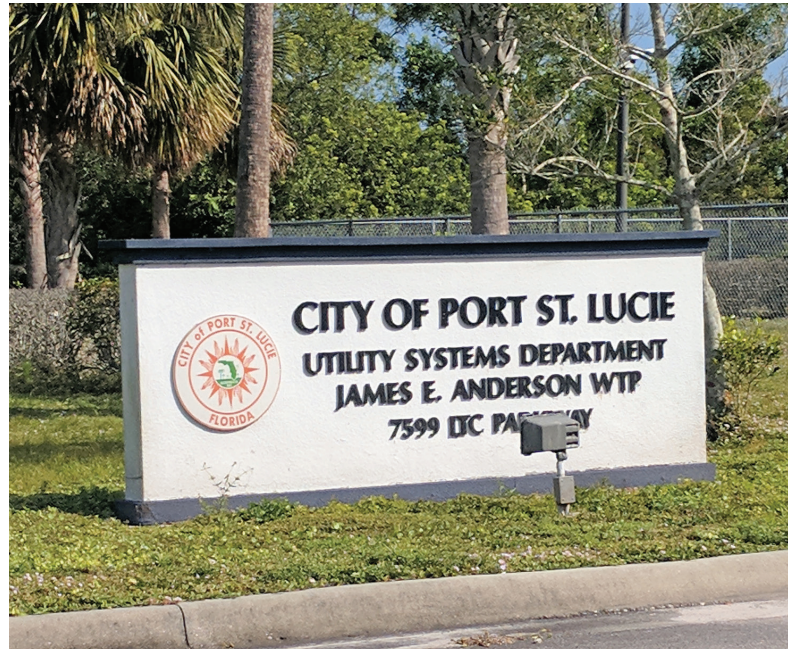
Offerors must indicate whether their proposal meets the individual requirement and provide a supporting narrative in the space provided. The narrative description, along with any required supporting materials, will be evaluated and awarded points in accordance with Section 6 "Proposal Evaluation, Negotiations and Award" of this eRFP. ONLY upload documents if there is a Yes in the "Upload Attachs with Additional Information?" column, to provide additional information about specific questions. Documents not requested in this column will not be evaluated.

**DO NOT INCLUDE ANY COST INFORMATION IN YOUR RESPONSE TO THIS WORKSHEET.**

Question #	Questions per Proposal Factors/Categories	Response by Offeror	Upload Attachments?	Attachment Name
1	<p><b><u>Please provide all documentation needed for Location.</u></b>  <b><u>Proposer's Location</u></b> - Location shall mean a business which meets the following criteria:                      # of Miles from City Hall to Assigned Staff's Office location!!                      0-60 Miles                      61-80 Miles                      81-100 Miles                      101-120 Miles                      121-140 Miles                      140+ Miles</p>	AECOM Technical Services, Inc. 2090 Palm Beach Lakes Blvd. Suite 600, West Palm Beach, FL 33409. Our West Palm Beach office is located 46 miles from City of Port St. Lucie City Hall.	Yes	File #4 Other Mandatory Documents
2	<p><b><u>Woman/Veteran/Minority Owned Business</u></b> - Does the Primary firm hold a Minority Business Certification by the Florida Department of Management Services, as described in section 8 of the document? If so, please attach.</p>	No	Yes	
3	<p><b><u>EXECUTIVE SUMMARY</u></b> - This section should include the Firm's overall concept of the working relationship that will be required to successfully complete this project. The proposer shall provide an executive summary narrative containing information that indicates an understanding of the overall need for and purpose of the services presented in the RFP.</p>	Please see the attached File #4 Other Mandatory Documents, Page 18	Yes	File #4 Other Mandatory Documents
4	<p><b><u>GENERAL SCOPE OF SERVICES</u></b> - Provide a general description of the types of services your firm is capable of providing.</p>	Please see the attached File #4 Other Mandatory Documents, Page 22	Yes	File #4 Other Mandatory Documents
5	<p><b><u>PROGRAM MANAGEMENT SERVICES</u></b> - Provide a description of the program management services your firm can provide.</p>	Please see the attached File #4 Other Mandatory Documents, Page 31	Yes	File #4 Other Mandatory Documents
6	<p><b><u>PLANNING SUPPORT</u></b> - Describe the types of planning your firm can provide.</p>	Please see the attached File #4 Other Mandatory Documents, Page 39	Yes	File #4 Other Mandatory Documents
7	<p><b><u>QUALIFICATIONS &amp; STAFF/PERSONNEL</u></b> - Please complete and attach Form 330 part I and II for evaluation of qualifications &amp; staff/personnel.</p>	Please see the attached form SF330 Part I, Section D. Org Chart and Section E. Resumes	Yes	File #3 Form SF330
8	<p><b><u>DESIGN SUPPORT</u></b> - Provide a list of at least 5 but no more than 10 projects within the last 5 years that your firm has done and describe what types of projects and services your firm provided.</p>	Please see the attached File #4 Other Mandatory Documents, Page 43	Yes	File #4 Other Mandatory Documents

**Attachment B - Mandatory Scored Questions**

9	<b>CONSTRUCTION ENGINEERING AND INSPECTION SERVICES</b> - Describe the CEI services your firm can provide.	Please see the attached File #4 Other Mandatory Documents, Page 45	Yes	File #4 Other Mandatory Documents
10	<b>GRANT &amp; LOAN FUNDING SUPPORT</b> - Provide examples of grants and loans your firm can provide.	Please see the attached File #4 Other Mandatory Documents, Page 46	Yes	File #4 Other Mandatory Documents



City of Port St. Lucie  
Electronic Request for Proposals ("eRFP")-CCNA

# Continuing Engineering Services for Utility Projects

eRFP (Event) Number: 20210093

Delivering a better world

Form SF330

# PART I

# ARCHITECT-ENGINEER QUALIFICATIONS

## PART I - CONTRACT-SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

Continuing Engineering Services for Utility Projects (Port St. Lucie, FL)

2. PUBLIC NOTICE DATE

Jul 16, 2021

3. SOLICITATION OR PROJECT NUMBER

20210093

### B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Karen Brandon, Associate Vice President/Authorized Signatory

5. NAME OF FIRM

AECOM Technical Services, Inc.

6. TELEPHONE NUMBER

561.515.3907

7. FAX NUMBER

N/A

8. E-MAIL ADDRESS

karen.brandon@aecom.com

### C. PROPOSED TEAM

	<i>(Check)</i>			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	JV PARTNER	SUBCONTRACTOR			
a.	✓			AECOM Technical Services, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	2090 Palm Beach Lakes Blvd. Suite 600 West Palm Beach, FL 33409	Prime Consultant
b.			✓	Northstar Geomatics <input type="checkbox"/> CHECK IF BRANCH OFFICE	617 NW Baker Road Stuart, FL 34994	Surveying
c.			✓	CONSOR Engineers, LLC <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	10625 North Military Trail Suite 207 Palm Beach Gardens, FL 33410	Construction Engineering and Inspection
d.			✓	Ardaman & Associates, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	460 NW Concourse Place Unit #1 Port St. Lucie, FL 34986	Geotechnical
e.			✓	The Berryhill Group, LLC <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	7120 Early Gold Lane Riverview, FL	Grant & Loan Funding
f.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
g.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
h.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

### D. ORGANIZATION CHART OF PROPOSED TEAM

(ATTACHED)

SECTION D: TEAM ORGANIZATIONAL CHART

AECOM Team Organizational Chart

KEY

📍 Team members located within 60 miles from Port St. Lucie City Hall.

Please note that all employees are with AECOM unless indicated otherwise.

- ▶ NorthStar Geomatics, Inc. (N)
- ▶ Ardaman & Associates, Inc. (A)
- ▶ CONSOR Engineers, LLC (C)
- ▶ The Berryhill Group, LLC (B)



**Principal-in-Charge**  
Karen Brandon, PE 📍

**Project Manager**  
Vaughn Hayduk, PE 📍

**Technical Advisors**

**Pumps and Pipelines**  
David Wilcox, PE

**Water Quality Treatment**  
Chris Hill, PE, BCEE, ENV SP

**Condition Assessment**  
Chris Macey, PEng

The AECOM team brings the qualified and committed leadership and deep bench of water professionals with a proven delivery and best-in-class experience. As shown on our Organizational Chart, we have organized our team to match your major scope of work areas. Each field has a highly experienced Technical Leader and Support Service personnel. Assisting them is our team of Technical Advisors who bring global knowledge in their respective disciplines and will be engaged with our delivery team when needed. Each of them is respected across the industry for their specialized expertise in several key utility focus areas. Our team is strengthened by four specialized subcontractors; they provide significant local and relevant experience.

TECHNICAL LEADERS

<b>Program Management</b> Jeremy Koch, PE, PMP 📍	<b>Master Planning</b> Tim Curran, PE Dawn Jakiela, PE	<b>Wastewater Collection &amp; Conveyance</b> Vaughn Hayduk, PE 📍 Dustin Chisum, PE	<b>Alternative Delivery</b> Brian Stitt, PEng, CBC 📍 Jeremy Koch, PE, PMP 📍	<b>Hydrogeology</b> Michael Bennett, PG 📍
<b>Water Transmission &amp; Distribution</b> Bill Snow, PE 📍 Kurt Ahlgrim, PE	<b>Pump Stations</b> Sheldon Barnes, PE 📍 Bozho Handjiev, PE	<b>Wastewater Treatment</b> Brian Stitt, PEng, CBC 📍 Jeremy Koch, PE, PMP 📍	<b>Hydraulic Modeling</b> Reshma Thummadi, PE Vaughn Hayduk, PE 📍	<b>Water Treatment/ Water Quality</b> Will Lovins, PhD, PE

SUPPORT SERVICES

<b>Surveying</b> Greg Fleming, PSM (N) 📍	<b>Permitting</b> Robert Eustice, PE 📍	<b>Electrical</b> Ira Brandell, PE 📍	<b>Structural</b> Khalid Motiwala, PE	<b>GIS</b> Joseph Helkowski, GISP
<b>Geotechnical</b> Dan Zrallack, PE (A) 📍	<b>I&amp;C/SCADA</b> Bill Overbeek, PE, PMP	<b>Resiliency</b> Marcia Tobin, AICP	<b>Civil/Site</b> Peter May, PE 📍	<b>Asset Management</b> Devan Thomas, PEng
<b>CEI Services</b> Etienne Bourgeois, PE (C) 📍	<b>Environmental Services</b> Laura Cherney	<b>Odor Control</b> Will Lovins, PhD, PE	<b>Cost Estimating</b> Felipe Poletto	<b>Grant &amp; Loan Funding</b> Don Berryhill, PE (B)
		<b>Right-of-Way and Property Acquisition</b> Brian Mekarski, CRB 📍		



## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		A. TOTAL	B. WITH CURRENT FIRM
<b>Karen Brandon, PE</b>	Principal-in-Charge	38	31

15. FIRM NAME AND LOCATION (City and State)

AECOM Technical Services, Inc., West Palm Beach, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Environmental Engineering, University of Florida	Professional Engineer: FL #38579

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Karen is well versed in water resources and regulatory compliance for the design and permitting of large infrastructure, utility, and port projects. She has been the principal, project manager and QA Reviewer on many projects with multi-discipline teams, including general consulting for municipalities and Special Districts, for development and improvement to water, wastewater and stormwater utilities.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	See Project 1 in Section F	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Palm Beach County, WUD Master Pump Station Contract, Palm Beach County, FL</b>		Ongoing	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Principal-in-Charge** for MSA contract for engineering services for rehabilitation and improvements to ten (10) repump stations, two (2) master lift stations, and 1 vacuum station. Services include assessment, design, permitting, cost estimating, bid support, asset management, value engineering and engineering services during construction.

b. (1) TITLE AND LOCATION (City and State)	See Project 2 in Section F	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Town of Lake Clarke Shores, Professional Services, Lake Clarke Shores, FL</b>		Ongoing	Ongoing

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Principal-in-Charge** for the General Utility Engineering Services continuing contract. Projects include water mains, force mains, lift stations, and master planning, services include assessment, planning, design, permitting, interagency coordination, and construction administration.

c. (1) TITLE AND LOCATION (City and State)	See Project 3 in Section F	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>City of Boynton Beach, Continuing Services Contract, Boynton Beach, FL</b>		2016	2018

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Principal-in-Charge** of QA reviews and assisted with permitting for 36" WM project. AECOM completed the route analysis study, hydraulic surge analysis, design and construction documents for approximately 8,100-ft of 36-inch raw water main as one of three sections to be constructed.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Palm Beach County, Beeline Community Development District, Jupiter, FL</b>		Ongoing	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**District Engineer** for 999 acre industrial complex in northern Palm Beach County. The \$8M Capital Program included water and sewer improvements, fire protection system improvements, improvements to a water control facility, WTP/WWTP demolition, DIW closure, and paving.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>City of Riviera Beach, Odor Control and Structural Assessment, Riviera Beach, FL</b>		2021	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Principal-in-Charge** for engineering services to perform an assessment of the City's three pump station odor abatement systems stations including mechanical, structural, HVAC, I&C and electrical; a desk-top alternative odor abatement technology evaluation; structural assessment evaluation of the City's 46 lift stations; and preparation of a Structural Condition Assessment Report.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Vaughn Hayduk, PE</b>	Project Manager, Technical Leader: Wastewater Collection & Conveyance, Hydraulic Modeling	A. TOTAL	B. WITH CURRENT FIRM
		8	0.5

15. FIRM NAME AND LOCATION (City and State)  
AECOM Technical Services, Inc., West Palm Beach, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MEng, Civil Engineering, University of Florida BS, Civil Engineering, Clemson University PACP certification	Professional Engineer: FL #84654

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Vaughn is a Project Engineer in AECOM's water practice in West Palm Beach, Florida. She has served as a professional engineer in the design and management of municipal engineering projects, including water and sewer conveyance, collection systems, hydraulic modeling of water and sewer systems, production wells, and condition assessment and rehabilitation.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<b>Palm Beach County, WUD Master Pump Station Contract, Palm Beach County, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">PROFESSIONAL SERVICES</th> <th style="width: 50%; text-align: center;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
Ongoing	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Deputy Project Manager** for MSA contract for engineering services for rehabilitation and improvements to ten (10) repump stations, two (2) master lift stations, and 1 vacuum station. Services include assessment, design, permitting, cost estimating, bid support, asset management, value engineering and engineering services during construction.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<b>Town of Lake Clarke Shores, Professional Services, Lake Clarke Shores, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">PROFESSIONAL SERVICES</th> <th style="width: 50%; text-align: center;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">Ongoing</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	Ongoing
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
Ongoing	Ongoing				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Project Engineer** for the General Utility Engineering Services continuing contract. Projects include water mains, force mains, lift stations, and master planning. Services include assessment, planning, design, permitting, interagency coordination, and construction administration.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<b>City of Titusville , Department of Water Resources Master Services Agreement, Titusville, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">PROFESSIONAL SERVICES</th> <th style="width: 50%; text-align: center;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
Ongoing	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Project Engineer** for the master planning of City-wide force mains. Services include force main risk assessment, recommendation for improvements, grant and loan funding assistance, and design.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<b>Collier County, Professional Services MSA, Collier County, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">PROFESSIONAL SERVICES</th> <th style="width: 50%; text-align: center;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td style="text-align: center;">2021</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2021	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2021	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Project Engineer** for the hydraulic modeling of the County-wide potable water system. Services included updating the model, creating scenarios through County buildout, and recommending system improvements for future growth.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<b>Palm Beach Park of Commerce, General Utility Services, Palm Beach County, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">PROFESSIONAL SERVICES</th> <th style="width: 50%; text-align: center;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td style="text-align: center;">2021</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2021	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2021	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm				

**Project Engineer** responsible for creating a hydraulic model of the Park's water distribution system to analyze capacity and available fire flow and recommend infrastructure improvements as necessary. Evaluated Park's sewer system and recommended lift station and infrastructure improvements.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>David Wilcox, PE</b>	Technical Advisor: Pumps and Pipelines	A. TOTAL	B. WITH CURRENT FIRM
		40	31

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Tampa, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MS, Civil Engineering, University of South Florida BS, Civil Engineering, University of Florida	Professional Engineer: FL #34942

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 David is the Water/Wastewater Engineering Group Manager for the AECOM Tampa office. David has 40 years of experience in the design and construction of water, wastewater, and reclaimed water facilities including process selection, treatment systems, pipeline and pump stations, and the selection of equipment. David has been responsible for the design of numerous wastewater treatment facilities. These facilities have ranged in size from 1-MGD to 100-MGD and have utilized a variety of different BNR processes to meet effluent requirements. He has additional experience in construction inspection and administration of construction contracts.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #008080;">See Project 1 in Section F</span> <b>Palm Beach County, WUD Master Pump Station Contract, Palm Beach County, FL</b>	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES</td> <td style="width: 50%;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
Ongoing	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Technical Advisor.** Provided technical direction and review for the hydraulic analysis which was performed to establish hydraulic conditions for the inline booster pump station that will replace the Master Pump station. In addition, assisted with the selection of low flow and high flow pumps.

b. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #008080;">See Project 9 in Section F</span> <b>Collier County, Professional Services MSA, Collier County, FL</b>	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES</td> <td style="width: 50%;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2021</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2021	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2021	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Project Manager.** Immokalee Road Chloramine Booster Station: preparation of plans and specifications for the construction of a new chloramine booster station designed to ensure disinfection residual is maintained in a 36-inch water transmission main with low flows. The design consisted of a booster pump station building that included chemical storage tanks and feed pumps for hypochlorite and aqueous ammonia and chlorine and ammonia analysers. A local PLC was used to control the chemical feed pumps by using a combination of flow rate and chlorine and ammonia concentration information provided by the analysers. The Building and access driveway required that site permits be obtained from the County.

c. (1) TITLE AND LOCATION (City and State) <b>Manatee County, Master Pump Station Rehabilitation Program, Manatee County, FL</b>	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES</td> <td style="width: 50%;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2014</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2014	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2014	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Project Manager.** Under a series of Work Assignments issued under a Utilities MSA contract, 6 master wastewater pump stations were rehabilitated/upgraded. Four (4) were wet pit/dry pit stations and the other two were submersible stations. Firm pumping capacities ranged from 4.0 MGD to 15 MGD with motor sizes ranging from 50-250 hp. The work included structural rehabilitation of the wetwells, installation of variable speed pumps, replacement of piping and valves, upgrades to the electrical system and installation of new emergency generator and odor control systems. Hydraulic modeling was performed to confirm pump upgrades.

d. (1) TITLE AND LOCATION (City and State) <b>Pinellas County, Madeira Beach Force Main Replacement, Pinellas County, FL</b>	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">PROFESSIONAL SERVICES</td> <td style="width: 50%;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2015</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2015	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2015	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Project Manager.** Replacement of 12,500 lf of 20" and 24" PCCP force main with PVC and HDPE piping. The design included a 2000 lf HDD crossing of the Intracoastal Waterway, a 4200 lf HDPE crossing of Boca Ciega Bay and a 800 lf HDD crossing of the Tom Stuart Causeway (SR 666). Special interconnection details were developed that allowed for the connection of the new pipe to the existing PCCP while maintaining service. Construction management and inspection services were provided during the construction phase.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		A. TOTAL	B. WITH CURRENT FIRM
<b>Chris Hill, PE, BCEE, ENV SP</b>	Technical Advisor: Water Quality Treatment	29	1

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Tampa, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BA, Business Administration, Ohio University BS, Chemical Engineering, Ohio University	Professional Engineer: FL #66933; OH, TX Board-Certified Environmental Engineer Envision Sustainability Professional

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Chris is an Advisor to the WaterReuse Florida Board of Trustees and an active participant in the Florida Potable Reuse Commission (PRC). He is co-author of the PRC Framework for the Implementation of Potable Reuse in Florida and a member of the PRC Emerging Constituents Sub-Team, helping to develop regulatory requirements for implementation of potable reuse in the state. He is a member of the AWWA Potable Reuse Management Standard Committee, past-Chair of the Emerging Water Quality Issues and Distribution System Water Quality Committees. The AWWA has recognized him for his contributions to the industry.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Hillsborough County, North Hillsborough Aquifer Recharge Program (NHARP), Hillsborough County, FL</b>	2018	2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	

**Project Officer.** Responsible for this unique indirect potable reuse application. The project consisted of the design and construction of the first several deep injection wells to be used by the county to inject highly treated reclaimed water. This will serve as a barrier to prevent salinization of coastal wellfields, raise the piezometric head of the freshwater aquifer and increase groundwater supply availability.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>El Paso Water Utility, Advanced Purified Water Treatment Plant (APWTP) - Phase 1, El Paso, TX</b>	2016	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	

**Technical Advisor.** Responsible for the conceptual design of a direct potable reuse project consisting of the addition of denitrification filters to the existing WWTP followed by a 10-MGD APWTP. The APWTP treatment process includes membrane filtration, NF/RO, UV/AOP and granular activated carbon absorption. Determined the most appropriate treatment process to address potential chemical and microbiological concerns and conceptual design review.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Water Research Foundation, Conventional Drinking Water Treatment of Alternative Water Sources: Source Water Requirements, Denver, CO</b>	2018	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	

**Principal Investigator.** Responsible for the evaluation of the source water quality limitations for the use of conventional treatment (rapid mix/flocculation/sedimentation/filtration) for potable reuse of reclaimed water, stormwater and gray water. Determined the conventional treatment capabilities and water quality characteristics for reclaimed water, stormwater, and gray water and necessary supplemental treatment.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Hillsborough County, Regional Integrated Water Resources Plan - Phases 1 and 2, Hillsborough County, FL</b>	2018	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	

**Project Officer.** The feasibility study included resource sharing and sustainability elements, such as indirect potable reuse, beneficial reuse, and aquifer recharge. This program was cooperatively funded by the SWFWMD.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Chris Macey, PEng</b>	Technical Advisor: Condition Assessment	A. TOTAL	B. WITH CURRENT FIRM
		43	43

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Winnipeg, MB

16. EDUCATION BSc, Civil Engineering, University of Manitoba	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer: Canada
---	---

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Chris is the Americas Technical Practice Lead for work pertaining to the assessment and rehabilitation of sewer and water infrastructure for AECOM. Since 1978, Chris has worked as a Project Engineer, Project and Program Manager, Senior Technical Advisor and as a Senior Technical Specialist on a diverse array of projects and major programs for Cities across North America as well as global geographies. Chris is also one of AECOM's global Technical Practice Network leads for the Condition Assessment and Rehabilitation of Linear Infrastructure.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State) <b>Salt Lake City Department of Public Utilities, Water Reclamation Facility (SLCWRF), Salt Lake City, UT</b>	(2) YEAR COMPLETED
	PROFESSIONAL SERVICES      CONSTRUCTION (If applicable)
	2018                                      N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

**Design Lead** for the Influent Force Mains for the SLCWRF Nutrient/Facility Upgrades program. Design requirements include final sizing and vertical/horizontal alignments; seismic resiliency design requirements and features; operational strategies to minimize operational cost, reduce maintenance, and to facilitate long term condition assessment; sustainability features and asset management considerations to facilitate long term operation with desired level of reliability; and preliminary procurement and construction strategies to reduce cost, schedule and risk.

b. (1) TITLE AND LOCATION (City and State) <b>Orange County Sanitation District (OCSD), Rehabilitation of Western Regional Sewers, Project No. 3-64, Orange County, CA</b>	(2) YEAR COMPLETED
	PROFESSIONAL SERVICES      CONSTRUCTION (If applicable)
	2020                                      N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

**Senior Technical Specialist** for the Assessment and Rehabilitation of approximately 10 miles of regional sewers ranging from 15" through 39" diameter in a very congested urban setting. The primary mode of rehabilitation will utilize CIPP technology although the feasibility of utilizing spiral-wound PVC was investigated up to the detailed design phase.

c. (1) TITLE AND LOCATION (City and State) <b>City of Victoria, Brick Storm Drain Condition Assessment and Rehabilitation Program, Victoria, BC</b>	(2) YEAR COMPLETED
	PROFESSIONAL SERVICES      CONSTRUCTION (If applicable)
	2019                                      N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

**Senior Technical Advisor** involving condition assessment, rehabilitation needs determination and implementation of risk-based priority driven rehabilitation program.

d. (1) TITLE AND LOCATION (City and State) <b>District of Saanich, Wood Stave Storm Drain Replacement Program, Vancouver, BC</b>	(2) YEAR COMPLETED
	PROFESSIONAL SERVICES      CONSTRUCTION (If applicable)
	2019                                      N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

**Senior Technical Advisor** involving determination of most advantageous method of rehabilitation, development of quality assurance requirements and implementation of the program with predominately trenchless technologies such as CIPP and sliplining.

e. (1) TITLE AND LOCATION (City and State) <b>City of Raleigh, Critical Forcemain Condition Assessment, Raleigh, NC</b>	(2) YEAR COMPLETED
	PROFESSIONAL SERVICES      CONSTRUCTION (If applicable)
	2020                                      N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

**Senior Technical Specialist** to develop and implement of condition assessment program for 6 critical forcemain systems involving over 43 km (27 mi) of forcemain in diameters ranging from 200 mm (8") through 750 mm (30").

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Jeremy Koch, PE, PMP</b>	Technical Leader: Program Management, Wastewater Treatment, Alternative Delivery	A. TOTAL	B. WITH CURRENT FIRM
		23	9

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., West Palm Beach, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Forest Engineering, State University of New York College of Environmental Science and Forestry	Professional Engineer: FL #69611; GA, NY, HI Project Management Professional

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Jeremy's technical and project delivery experience is across a broad spectrum of potable water, wastewater and water management issues. Work has included treatment facilities, distribution/conveyance systems, biosolids management, land application, water reclamation, materials handling, and energy savings, recovery, and generation. Process engineering includes evaluation and design for more than 30 treatment facilities ranging in capacity from 0.1 to more than 250-MGD. Facility and utility master planning includes small (<1,000 pop.) to large scale (>1MM pop.) to address various issues including water supply, regulatory mandates response, energy management and financial/capital improvement planning.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
<b>See Project 1 in Section F</b> <b>Palm Beach County, WUD Master Pump Station Contract, Palm Beach County, FL</b>	Ongoing

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Manager/Technical Lead** for a group of seven professional consulting firms to complete the planning, engineering and construction support for all of these projects. The work is being completed over a 5-year period with various projects completed under this single contract.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
<b>Miami-Dade WASD, Wastewater Treatment Plants Capacity Management, Operation, and Maintenance (CMOM) Services Related to the Consent Decree, Miami, FL</b>	2017

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Manager/Engineering Support** in developing the wastewater treatment CMOM elements to achieve compliance with an EPA/FDEP-issued consent decree (CD). Work entailed evaluating O&M programs at three large treatment facilities (North, South, and Central District WWTPs at respective permitted average capacities of 120, 143, and 112.5-MGD).

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
<b>Miami-Dade WASD, Wastewater Collection and Transmission System (WCTS), Miami, FL</b>	2018

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Projects/Program Manager/Engineer of Record** leading a team of 14 consultants in the design of improvements to the WCTS as stipulated by an EPA Consent Decree. Over 50 standalone project task authorizations were issued with facilities including multiple pump station rehabilitations from 1 to 40-MGD and multiple force mains from 6 to 56-inches diameter.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
<b>City and County of Honolulu, Department of Environmental Services, Island-wide Sludge Management Plan, Oahu, HI</b>	2014

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Manager** for a comprehensive sludge processing, disposal and beneficial use plan for all nine City and County of Honolulu wastewater treatment plants with capacities ranging from 0.1 to 90-MGD.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
<b>City and County of Honolulu, Department of Environmental Services, Honouliuli/Waipahu/Pearl City Wastewater Facilities Plan, Honolulu, Oahu, HI</b>	2014

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project/Program Manager** for facility planning and preliminary engineering of long-range capital improvements for the collection treatment systems serving a population of over 300,000, with over 500 miles of gravity sewer, 17 pump stations and 12 miles of force main.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Bill Snow, PE</b>	Technical Leader: Water Transmission & Distribution	A. TOTAL	B. WITH CURRENT FIRM
		51	14

15. FIRM NAME AND LOCATION (City and State)

AECOM Technical Services, Inc., West Palm Beach, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Civil Engineering, Vanderbilt University	Professional Engineer: FL #42757

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Bill has 51 years of design, permitting, construction and project management experience specializing in water and wastewater systems. He has successfully managed the design of numerous projects which have included pipelines, pump stations, water treatment plant upgrades and process design and startup. Expertise includes, Ion Exchange, Reverse Osmosis Plants, Membrane Softening Plants, Lime Softening Plants, and major watermain projects. Bill gained his experience through many years of on-site field installations and start-ups, rehabilitation projects and on-site construction review.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	See Project 2 in Section F	(2) YEAR COMPLETED	
<b>Town of Lake Clarke Shores, Professional Services, Lake Clarke Shores, FL</b>	Ongoing	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		Ongoing	Ongoing

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Project Manager** for five Water Main projects; Nowata Road, Chickasha Road, Carandis Road Mango Circle Phase 1 and Phase 2, and Horizontal Directional Drill (HDD) under the Lake Worth Drainage District (LWDD) L-17 canal, watermain replacement projects in the Town's Utility jurisdiction. Over saw the engineering design, permitting, bidding assistance and construction services. Each project included replacing old AC pipe with new PVC pipe, addition of fire hydrants and water services to houses in a residential area. Also included site and street restoration.

b. (1) TITLE AND LOCATION (City and State)	See Project 3 in Section F	(2) YEAR COMPLETED	
<b>City of Boynton Beach, Continuing Services Contract, Boynton Beach, FL</b>	2016	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	2018

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Project Manager and Lead Designer** included pilot study to remove color and organics from the western well field and the 30% design for a 20 MGD anion ion exchange raw water pre-treatment plant for organic compound removal for the progressive design build contract.

c. (1) TITLE AND LOCATION (City and State)	See Project 4 in Section F	(2) YEAR COMPLETED	
<b>Town of Davie, New Water Treatment and Water Reclamation Facility Progressive Design-Build, Davie, FL</b>	2016	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	2016

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Process Start Up Engineer and Engineer of Record.** Process start up engineer for the 8.0 MGD Reverse Osmosis plant and chemical feed systems including acid, corrosion inhibitor, antiscalant, chlorine disinfection, degasifier system and post treatment system using CO2 and Lime mineralization system.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Hialeah Pilot Testing, Design &amp; Startup Services 12.5 MGD, ROWTP, Hialeah, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2009	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Process Design Manager and Engineer of Record.** Pilot Study prepared Reverse Osmosis membrane projections for the pilot study and coordinated technical assistance regarding membrane selection. Process Design Manager and Engineer of Record for the 12.5 MGD Reverse Osmosis Plant expandable to 20.0 MGD.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Lake Worth Beach Reverse Osmosis Plant Acid Dilution System, Lake Worth Beach, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2015	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Project Manager and Lead Design Engineer** to replace the full-strength sulfuric acid system with an acid dilution system. The system includes the design of an acid dilution panel for pre and post acid injection to the Reverse Osmosis units, booster feed pumps, special piping and a new 20-inch stainless steel static mixer and injection quill.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Kurt Ahlgrim, PE</b>	Technical Leader: Water Transmission & Distribution	A. TOTAL	B. WITH CURRENT FIRM
		20	6

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Orlando, FL

16. EDUCATION BS, Civil Engineering, Michigan State University AS, Architecture, Lansing Community College	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer: FL #66987; MI
--	--

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Kurt has served as a professional engineer in the design and management of municipal engineering projects, including water and sewer conveyance, collection systems, water plants, wastewater plants, and hydraulic modeling of water and sewer systems and roads and streets. His background is founded in construction engineering, where he has participated in the building of many different utility projects.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #008000;">See Project 2 in Section F</span>	(2) YEAR COMPLETED	
<b>Town of Lake Clarke Shores, Professional Services, Lake Clarke Shores, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	Ongoing	Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Engineer.** AECOM has provided professional consulting services to the Town since 2003 for all its utility work. The Town of Lake Clarke Shores is responsible for water distribution and wastewater collection systems. Kurt helped, Bill Snow, and Jeremy Koch on an RFQ for Lake Clark Shores regarding vacuum sewers.

b. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #008000;">See Project 6 in Section F</span>	(2) YEAR COMPLETED	
<b>City of Titusville, Water Master Planning and Distribution System Water Quality Improvements, Titusville, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2019	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Engineer** responsible for WaterGEMS hydraulic model including 340 miles of potable water main and 6 high service pumps (from 1 water plant and 1 repump station). Evaluated Average Day, Max Day w/Fire Flow, and Peak Hour, and Existing, Future 5-year, Future 10-year, and future 15-year scenarios.

c. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #008000;">See Project 7 in Section F</span>	(2) YEAR COMPLETED	
<b>City of Titusville, Department of Water Resources Master Services Agreement, Titusville, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Engineer.** AECOM has been providing professional services to the City of Titusville under a master services agreement since 2017.

d. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #008000;">See Project 8 in Section F</span>	(2) YEAR COMPLETED	
<b>Cape Coral, Continuing Services Contract, Cape Coral, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Engineer, Deputy Project Manager and Engineer of Record** responsible for designing approximately 7,500 feet of a 6-inch Waste Activated Sludge line and 10,300 feet of a fiber optic conduits. Design included two (2) canal crossings along Gleason Parkway. Scope of services also include coordination with Geotechnical and Environmental subcontractors, coordinating with state and federal officials for permitting, coordinating/conducting progress meetings and reviews with City.

e. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #008000;">See Project 10 in Section F</span>	(2) YEAR COMPLETED	
<b>Seminole County, Department of Environmental Services Master Services Agreement, Seminole County, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Engineer and Deputy Project Manager** responsible for designing approximately 9,300 feet of replacement 4-inch to 12-inch water mains, and designing approximately 9,500 feet of existing 8-inch and 10-inch sanitary sewer rehabilitation using cured-in-place lining technology. Scope of services also include coordination with county and state officials for permitting.



## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Tim Curran, PE</b>	Technical Leader: Master Planning	A. TOTAL	B. WITH CURRENT FIRM
		21	19

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Orlando, FL

16. EDUCATION BS, Environmental/Environmental Health Engineering, University of Central Florida MS, Environmental/Environmental Health Engineering, University of Central Florida	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer: FL #34809
---	--

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Tim has extensive engineering experience covering the full range of water, wastewater, and reuse facility planning, evaluation, modeling, design, cost estimating, construction, start-up, training, and project management; with a full complement of studies, master plans, and designs of pump stations, pipelines, and treatment plants.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #0070c0;">See Project 6 in Section F</span> <b>City of Titusville, Water Master Planning and Distribution System Water Quality Improvements, Titusville, FL</b>	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td style="text-align: center;">2019</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2019	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2019	N/A				

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Manager/Engineer** for evaluation of options for converting existing effluent dual media filters to denitrification filters for the 20-MGD Southwest water reclamation facility.

b. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #0070c0;">See Project 7 in Section F</span> <b>City of Titusville, Department of Water Resources Master Services Agreement, Titusville, FL</b>	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
Ongoing	N/A				

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Manager** for evaluation the City's potable water system to identify necessary improvements to the treatment and distribution systems that ensure delivery of water which meets or exceeds the City's water quality and system pressure goals.

c. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #0070c0;">See Project 8 in Section F</span> <b>City of Cape Coral, Continuing Services Contract, Cape Coral, FL</b>	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
Ongoing	N/A				

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Manager** for for WAS & FO Extension, Canal Nutrient Study. The services that AECOM has provided include planning, hydraulic modeling, preliminary engineering, design, permitting, and construction phase services on a wide range of projects.

d. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #0070c0;">See Project 9 in Section F</span> <b>Collier County, Professional Services MSA, Collier County, FL</b>	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td style="text-align: center;">2021</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2021	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2021	N/A				

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Manager** for Well #10 Improvements, Well #33 Improvements, FDOT Utility Relocations, Deep Injection Well Pump Station Preliminary Design. AECOM provided planning, design, permitting, and construction phase services on a wide range of projects.

e. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: #0070c0;">See Project 10 in Section F</span> <b>Department of Environmental Services Master Services Agreement, Seminole County, FL</b>	(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td style="text-align: center;">Ongoing</td> <td style="text-align: center;">N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
Ongoing	N/A				

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Manager** for the preliminary and final design of upgrades to both the water distribution and gravity sewer collection systems within an existing neighborhood of about 200 services. For water, 2-, 3-, and 4-inch mains will be upsized to 6-inch to improve fire flow, 8- and 12-inch Asbestos Cement pipe will be replaced with PVC, and new services and fire hydrants will be provided. For sewer, approximately 10,000 feet of Vitrified Clay pipe will be rehabilitated using a cured-in-place liner and about 2,000 ft of 6-inch PVC force main will be extended from an existing manhole discharge directly to the receiving lift station.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Dawn Jakiela, PE</b>	Technical Leader: Master Planning	A. TOTAL	B. WITH CURRENT FIRM
		39	19

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Fort Myers, FL

16. EDUCATION BS, Civil Engineering, University of Connecticut	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer: FL #75034; CT
---	--

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Dawn is a project manager with extensive engineering expertise related to the planning, design, and maintenance of municipal wastewater and water facilities. As the former city engineer in Meriden, Connecticut, she oversaw various municipal engineering projects, including wastewater treatment and collection, water treatment and distribution, stormwater management, and traffic systems. She provided technical input to long-range planning efforts for public infrastructure such as sanitary and stormwater collection systems and roadways and assisted with the preparation of the city's capital improvement planning program. Dawn was also responsible for preparing the annual budget for the Engineering Division and assisted with the preparation of the annual budgets for the Water and Wastewater Divisions.

### 19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED
	<b>See Project 3 in Section F</b>		
	<b>City of Boynton Beach, Continuing Services Contract, Boynton Beach, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	2018
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		
	<input checked="" type="checkbox"/> Check if project performed with current firm		

**Project Manager.** As one of the City's General Services Consultant, AECOM has provided civil engineering, water resources, water treatment, stormwater design and distribution/conveyance and lift and pump station services.

b.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED
	<b>See Project 8 in Section F</b>		
	<b>Cape Coral Continuing Services Contract, Cape Coral, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		Ongoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		
	<input checked="" type="checkbox"/> Check if project performed with current firm		

**Project Manager.** AECOM has served as a consultant to the City of Cape Coral under a continuing service contract since 2004. The services that AECOM has provided include planning, hydraulic modeling, preliminary engineering, design, permitting, and construction phase services on a wide range of projects.

c.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED
	<b>See Project 9 in Section F</b>		
	<b>Collier County, Professional Services MSA, Collier County, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2021	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		
	<input checked="" type="checkbox"/> Check if project performed with current firm		

**Project Manager.** Currently managing a 2020 master plan to identify potable water, irrigation water and wastewater system improvements that will provide sufficient system capacity to meet projected demands and to provide reliable service while meeting all regulatory requirements to provide the required level of service.

d.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED
	<b>Marco Island, Marco Shores Alternative Water and Sewer Improvements, Marco Island, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2020	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		
	<input checked="" type="checkbox"/> Check if project performed with current firm		

**Project Manager.** Managed preliminary engineering, design, permitting, bidding, and construction phase services to construct potable water and wastewater improvements, including a new wastewater pump station and two 6,000-foot subaqueous HDDs for portable water and wastewater conveyance.

e.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED
	<b>Collier County, Public Utilities Master Plan, Naples, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2019	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		
	<input checked="" type="checkbox"/> Check if project performed with current firm		

**Project Manager.** Managed the 2014 comprehensive master plan for potable water, wastewater and reuse water facilities and subsequent updates in FY2017 and FY 2019. This evaluation included analyses of population and flow projections and available treatment plant capacities, raw water supplies, hydraulic modeling to assess the ability of the pipeline network to provide adequate flows and pressures and linear asset prioritization to recommend a capital improvement plan.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Sheldon Barnes, PE</b>	Technical Leader: Pump Stations	A. TOTAL	B. WITH CURRENT FIRM
		19	19

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., West Palm Beach, FL

16. EDUCATION BS, Mechanical Engineering, University of Virginia	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer: FL #71360
---	--

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Sheldon is a water and wastewater engineer with experience in design and construction of water and wastewater treatment facilities, pumping stations, and rehabilitation of various facilities. He brings extensive experience in evaluating existing conditions, site planning, and designing upgrades and conversions of existing, aging facilities which enhances the performance of the facilities.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State) <b>Town of Lake Clarke Shores, Professional Services, Lake Clarke Shores, FL</b>	<a href="#">See Project 2 in Section F</a>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		Ongoing	Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Engineer.** AECOM has provided professional consulting services to the Town since 2003 for all its utility work. The Town of Lake Clarke Shores is responsible for water distribution and wastewater collection systems.

b. (1) TITLE AND LOCATION (City and State) <b>City of Boynton Beach, Continuing Services Contract, Boynton Beach, FL</b>	<a href="#">See Project 3 in Section F</a>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Engineer.** As one of the City's General Services Consultant, AECOM has provided civil engineering, water resources, water treatment, stormwater design and distribution/conveyance and lift and pump station services. Some examples of the work include: Surf Road Water Main Replacement - A two-mile section of new raw water main interconnect for the city, including a 36-inch ductile iron raw water main and preparation of construction drawings and technical specifications; and Lakeside Water Main and Storm Drainage Improvements - Conducted preliminary pipeline design of water main replacement as part of the Lakeside area improvement project, which included pipe sizing, identifying pipe route alternatives, and reviewing right-of-way permitting requirements.

c. (1) TITLE AND LOCATION (City and State) <b>Town of Davie, New Water Treatment and Water Reclamation Facility Progressive Design-Build, Davie, FL</b>	<a href="#">See Project 4 in Section F</a>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	

**Construction Engineer and Site Safety Officer** at the project site during the construction of 6.0 MGD Reverse Osmosis WTP and 3.5 MGD MBR Water Reclamation Facility. Provided engineering oversight, which included the review of shop drawings submittals, and created Commissioning Plan, coordinated commissioning schedule and assisted the management of commissioning activities of the RO and MBR facilities.

d. (1) TITLE AND LOCATION (City and State) <b>City of Hollywood, Professional Continuing Services: Various Pump/Lift Stations Conversion Program, Hollywood, FL</b>	<a href="#">See Project 5 in Section F</a>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2020	2020
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Engineer** for different tasks of this contract. Some include: West Hollywood Pumping and Storage - Completed mechanical design of pumps and process piping, and prepared technical specifications for the design of a booster pumping station with a capacity of 5,100 gpm and two 2.5 MG ground storage tanks; Lift Station Conversion and Upgrade Program - Responsible for providing design and project engineering services in upgrading the hydraulic capacity of 18 wastewater lift stations, which included converting 17 of the stations from can-type to submersible; , State Road 7 Lift Stations (Project 14-7042B) - Responsible for providing design, permitting, bid and construction services for four new wastewater lift stations, W-12, W-13, W-23 and W-24, as part of the city of Hollywood's water and sewer improvements in conjunction with the FDOT US441/SR7 widening project.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Bozho Handjiev, PE</b>	Technical Lead: Pump Stations	A. TOTAL	B. WITH CURRENT FIRM
		24	18

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Tampa, FL

16. EDUCATION MS, Environmental/Environmental Health Engineering, University of South Florida	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer: FL #67573
--	--

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Bozho is an environmental engineer with over nine years of experience in a wide variety of water, wastewater, and reclaimed water projects for municipal clients. He has experience in process design as well as hydraulic modeling. Bozho is well versed in the hydraulic modeling program WaterCAD and SewerCAD. In addition, he has prepared a number of industrial wastewater treatment plant and National Pollutant Discharge Elimination System permits for industrial clients.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State) <b>Palm Beach County, WUD Master Pump Station Contract, Palm Beach County, FL</b>	(2) YEAR COMPLETED
<b>See Project 1 in Section F</b>	Professional Services
	Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	CONSTRUCTION (If applicable) N/A
	<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Engineer.** Palm Beach County Water Utilities Department (PBCWUD) is engaged in the rehabilitation and improvements of approximately ten master repump stations, two master lift stations, and one vacuum station in the PBCWUD service area. The master repump stations are critical assets that typically use in-line booster pumps on variable frequency drives located in a building complex to convey flow from several lift stations toward the wastewater treatment plant.

b. (1) TITLE AND LOCATION (City and State) <b>City of Clearwater, Japanese Gardens Wastewater Collection System Evaluation, Clearwater, FL</b>	(2) YEAR COMPLETED
	Professional Services
	2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	CONSTRUCTION (If applicable) N/A
	<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Manager and Engineer of Record.** During heavy rain events, the City of Clearwater wastewater collection system experiences surcharges in a section of the 30-inch Japanese Gardens gravity trunk line. Project included hydraulic analysis using SewerCAD of the City wastewater collection system in the area, confirmation of system capacity, and providing recommendation for system improvements that will minimize future sanitary sewer overflows and will also allow for future developments to connect to the system.

c. (1) TITLE AND LOCATION (City and State) <b>City of Clearwater, Corona Avenue Sanitary Sewer Improvements, Clearwater, FL</b>	(2) YEAR COMPLETED
	Professional Services
	2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	CONSTRUCTION (If applicable) N/A
	<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Manager and Engineer of Record.** Project included hydraulic analysis using SewerCAD of a portion of the City's gravity sanitary sewer collection system to identify system deficiencies causing sanitary sewer overflows during heavy rain events. Design of a new 12-inch gravity sanitary sewer main that will provide additional collection system capacity during heavy storm events.

d. (1) TITLE AND LOCATION (City and State) <b>City of Clearwater, NE WRF - Effluent Pump Station Valves and Slide Gate Replacement, Clearwater, FL</b>	(2) YEAR COMPLETED
	Professional Services
	2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	CONSTRUCTION (If applicable) N/A
	<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Manager and Engineer of Record.** Project included replacement of one slide gate and two butterfly valves, including electric actuators at the effluent pump station of the Northeast Water Reclamation Facility (NE WRF).

e. (1) TITLE AND LOCATION (City and State) <b>Northwest Water Reclamation Facility (NWWRF) Effluent Filters Improvements Project, St. Petersburg, FL</b>	(2) YEAR COMPLETED
	Professional Services
	2018
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	CONSTRUCTION (If applicable) N/A
	<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Engineer.** Project included the design of three disk filters at the City NWWRF with an individual peak design capacity of 15 MGD and a backwash pump station. Preparation of construction documents and engineering services during construction including shop drawings review and responses to contractor's RFIs.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		A. TOTAL	B. WITH CURRENT FIRM
<b>Dustin Chisum, PE</b>	Technical Leader: Wastewater Collection & Conveyance	9	8

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Fort Myers, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Environmental Engineering, Florida Gulf Coast University	Professional Engineer: FL #84393

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Dustin has a broad range of civil/site engineering experience that has included hydraulic modeling, design of water and wastewater distribution systems and pumping stations, preparation of specifications for various facility improvements, and construction engineering inspection services. He recently served as project engineer for the Collier County Wastewater Basin 306 analysis project, leading the rehabilitation design development for several master wastewater pumping stations, including the design and construction of a 30-inch force main along a FDOT right-of-way.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	PROFESSIONAL SERVICES		CONSTRUCTION (If applicable)	
<b>See Project 9 in Section F</b>	2021			N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		

**Project Engineer.** Provided design services for civil-site components related to replacement of a potable water quality monitoring panel. Led cross-disciplinary design team to ensure coordination between all project elements.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	PROFESSIONAL SERVICES		CONSTRUCTION (If applicable)	
<b>Collier County, Continuing Service Agreement-Courts Elevators Modernization II, Fort Myers, FL</b>	2020			N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		

**Project Engineer.** Provided construction phase services including submittal reviews, site visits to assess conformance with design plans and specifications, and review applications for payment.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	PROFESSIONAL SERVICES		CONSTRUCTION (If applicable)	
<b>Fort Myers Central &amp; South Advanced Wastewater Treatment Facilities, Design Electrical System, Fort Myers, FL</b>	Ongoing			N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		

**Civil Design Lead Engineer.** Responsible for improvements for the South and Central AWWTFs. Design elements included selective demolition of existing structures, roadway and drainage improvements, underground piping modifications, and complete replacement of fuel storage and delivery systems for emergency power generators. The Central plant design included complete elimination of an existing stormwater retention pond to reclaim for future construction.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	PROFESSIONAL SERVICES		CONSTRUCTION (If applicable)	
<b>Collier County Master Pump Station, 306 – Wastewater Basin Analyses Program, Collier County, FL</b>	Ongoing			N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		

**Deputy Project Manager.** Responsible for complete rehabilitation of basin pump stations. Assisted in obtaining required regulatory approvals and permits. Developed construction cost estimates and packaged bid documents into several construction contracts.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	PROFESSIONAL SERVICES		CONSTRUCTION (If applicable)	
<b>Marco Island, Marco Shores Alternative Water &amp; Sewer Improvements, Marco Island, FL</b>	2020			N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm		

**Deputy Project Manager.** Responsible for decommissioning and demolition of a wastewater treatment plant and reclaim water storage facility. Developed cost estimates for alternatives under consideration for final alignment of approximately 20,000-lf of wastewater force main. Design included new Master Pump Station and several HDD installations.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Brian Stitt, PEng, CBC</b>	Technical Leader: Wastewater Treatment, Alternative Delivery	A. TOTAL	B. WITH CURRENT FIRM
		40	30

15. FIRM NAME AND LOCATION (City and State)
AECOM Technical Services, Inc., West Palm Beach, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MS, Environmental Management, University of Queensland BS, Civil Engineering, University of Manitoba	Professional Engineer: Canada Licensed Building Contractor: FL #261940

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Brian is a Senior Project Manager with 40 years of experience. He has extensive experience in wastewater treatment, specializing in process design and design management of municipal and industrial wastewater treatment systems and biosolids management systems. Brian is also responsible for wastewater treatment plant process design and is proficient with wastewater simulation software for the design of biological nutrient removal wastewater treatment plants.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	See Project 4 in Section F	(2) YEAR COMPLETED	
<b>Town of Davie, New Water Treatment and Water Reclamation Facility Progressive Design-Build, Davie, FL</b>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	2016

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Project Manager** for the Planning, Design and Construction of a LPRO Water Treatment Facility and MBR Water Reclamation Facility and Reuse Program for the Town. The project was delivered as a progressive design build and entails: numerous site acquisitions for the main plant, 4 remote well sites and pipelines; permitting for all aspects of the project; planning, design and development of GMP, final design and construction of treatment facilities, supporting collection and distribution networks, two UIC deep injection wells and a new utilities administration office; planning, design and implementation of a reuse program.

b. (1) TITLE AND LOCATION (City and State)	See Project 5 in Section F	(2) YEAR COMPLETED	
<b>City of Hollywood, Professional Continuing Services: Various Pump/Lift Stations Conversion Program, Hollywood, FL</b>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2020	2020

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Project Manager** for the upgrade and refurbishment of multiple pump stations in the City. These stations are mostly duplex submersible pumps and generally range in capacity from 0.5 to 2 MGD. The work entails condition assessment, complete refurbishment including site/ civil, structural rehabilitation, and replacement of all mechanical process, electrical and SCADA/I&C equipment.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
<b>Amesbury Engineering Department, On-call Wastewater Advisory Services, Amesbury, MA</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
	2004	N/A	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Project Manager.** Managed preliminary and final design and construction of a 2.4 MGD wastewater treatment plant upgrade, which required replacement of mechanical equipment, expansion of a building, and upgrade of two final settling tanks, a biosolids management facility, HVAC and odor control facilities, an electrical distribution system, an aeration system, and an instrumentation and control system.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
<b>Miami-Dade WASD, Biosolids Facilities for CDWWTP and SDWWTP, Miami, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
	2012	N/A	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Program/Project Management** responsible for the design, permitting, procurement and construction of approximately \$150,000,000 thickening and dewatering facilities that manage all biosolids from the Counties three WWTP's with a total treatment capacity in excess of 350 MGD average day flow.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
<b>City of Hialeah, Water Treatment Plant Design, Build, Operate (DBO), City of Hialeah, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
	2010	N/A	

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm

**Commissioning Manager** for the design/build/operate of a 12 MGD brackish water reverse osmosis water treatment facility.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Reshma Thummadi, PE</b>	Technical Lead: Hydraulic Modeling	A. TOTAL	B. WITH CURRENT FIRM
		16	9

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Coral Gables, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MS, Environmental Engineering, Florida International University BS, Chemical Engineering, Sri Venkateswara University	Professional Engineer: FL #76219

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Reshma is an environmental engineer specializing in Water, Wastewater, and Irrigation Quality (IQ) Water engineering projects. She has served numerous municipal clients in Florida and few out of Florida and is proficient in utility master planning and distribution / collection system hydraulic modeling. She has hands on experience working with software programs including ArcView GIS and hydraulic modeling using Bentley's WaterGEMS and SewerGEMS, and Innovyze InfoWater and InfoWorks.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>See Project 9 in Section F</b>		
<b>Collier County, Professional Services MSA, Collier County, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2021	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Hydraulic Modeling Lead** to support the hydraulic modeling efforts (SewerGEMS) related to design of a master pump station upgrades in Collier County sewer system that can pump flows from the County's south service directly to the Water Reclamation Facility via an inline booster station.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Charlotte County, Water System Hydraulic Model Assistance to Improve Efficiency of the System, Charlotte County, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2013	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Engineer** to provide hydraulic water modeling services to Charlotte County Utilities. The project included hydraulic modeling analysis under extended period simulation (using WaterGEMS) for alternative strategies and infrastructure upgrades that are required for improving operation of the County's water distribution system.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Cape Coral, Water and Sewer Refunding Annual Bond Report, Cape Coral, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2018	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Manager** to prepare City's utility systems Annual Engineering Report in compliance with the requirements of City's Bond Covenants. The Bond report included utility system due diligence inspections in order to identify the regulatory compliance of the system, review of utility system customers and usage to establish revenues and expenditures of the system, and 5-year capital improvement plan to identify future system infrastructure needs.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Fort Myers, Edgewood Trunk Sanitary Sewer Evaluation, Fort Myers, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2017	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Deputy Project Manager** to perform an assessment of a gravity trunk sanitary sewer to determine if adequate capacity exists for City's projected needs.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Hialeah Gardens Sewer, Master Plan, Hialeah Gardens, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2019	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Technical Lead** to update the existing wastewater system hydraulic model such that it can be used to evaluate system performance with proposed development; assess specific development applications; and serve as an overall planning tool for future growth.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		A. TOTAL	B. WITH CURRENT FIRM
<b>Michael Bennett, PG</b>	Technical Lead: Hydrogeology	35	15

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., West Palm Beach, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MS, Hydrogeology, Old Dominion University BS, Geology, California University, Pennsylvania	Professional Geologist: FL #1558; TX, LA

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Michael is a seasoned professional geologist and senior hydrogeologist with expertise in project and construction management of multi-million dollar groundwater resource, aquifer storage and recovery, and deep injection well projects. He provides technical consultation on permitting, groundwater hydrology, water resource assessment, aquifer storage and recovery, and deep well disposal projects, offering expertise in hydrogeologic and geochemical characterization of groundwater systems, groundwater flow modeling, borehole and surface geophysics investigations, and feasibility and design of deep injection well systems.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<div style="text-align: right; font-size: small; color: green; margin-bottom: 5px;">See Project 4 in Section F</div> <b>Town of Davie, New Water Treatment and Water Reclamation Facility Progressive Design-Build, Davie, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2016</td> <td style="text-align: center;">2016</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2016	2016
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2016	2016				

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Manager.** Design and permitting and oversaw the construction of five Floridan Aquifer production wells. The specific completion methods and acidization plan was developed using field data to increase water production capacity of each of the production wells. Completed density dependent ground water modeling using SEAWAT to determine the potential for changes in salinity due to long-term withdrawals from the Town of Davie's new upper Floridan Aquifer production wells.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<b>City of Miami Springs, Wellfield Rehabilitation Phase, Miami Springs, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2014</td> <td style="text-align: center;">2015</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2014	2015
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2014	2015				

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Ground Water and Production Technical Leader.** The wellfield consists of 23 shallow production wells drawing from the Biscayne Aquifer including those at the Hialeah WTP and within the city of Miami Springs. Due to the age of this wellfield and associated infrastructure, AECOM developed a condition assessment report. The report addressed the raw water production wells and associated mechanical, electrical, and structural components and functional integrity with the intent to provide a strategic evaluation and recommendations based on visual observed condition to extend the useful life of the facilities. Phase I include the following work components.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<b>City of Florida City, FKAA Class I Deep Injection Wells (DIW) Permitting Design and Construction Oversight, Florida City, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2007</td> <td style="text-align: center;">2010</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2007	2010
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2007	2010				

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Project Manager.** Completed the technical specifications, contract documents and well construction plans to accommodate a change in location of the DIW system. Negotiated the specific and general conditions of the Florida DEP construction permit for the DIW system. Successfully bid the well construction phase and negotiated contract with qualified contractor to construct the DIW system. Oversaw the construction of the deep injection well systems; provided operation testing consultation and documented the findings in a Comprehensive Engineering/Well Construction and Testing Report. Mike completed the O&M manual for the DIW system and provided training to FKAA staff to operate and monitor the system.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<b>City of Miami Beach, Flood Mitigation Consulting and Sea Level Rise/ Resiliency Study, Miami Beach, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2020</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2020	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2020	N/A				

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Hydrogeologist.** Hydrogeologic investigation of Miami Beach in an effort to provide sufficient information to accurately depict subsurface hydrogeologic conditions for model conceptualization and to provide high resolution data for model calibration and verification.



## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME				13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
<b>Will Lovins, PhD, PE</b>				Technical Leader: Water Treatment/Water Quality, Odor Control		A. TOTAL	B. WITH CURRENT FIRM
						31	25

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Orlando, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
PhD, Environmental Engineering, University of Central Florida MS, Environmental Engineering, University of Central Florida BS, Environmental Engineering, University of Central Florida	Professional Engineer: FL #58678

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Dr. Lovins has 26 years of engineering experience in water quality and quality and treatment serving both municipal and industrial clients. He specializes in potable water quality and treatment and has performed numerous desk-top studies, building inspections, bench, pilot and full-scale evaluations, with many involving corrosion control and compliance with the USEPA Lead and Copper Rule.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<div style="text-align: right; color: #008000; font-weight: bold; font-size: small;">See Project 4 in Section F</div> <b>Town of Davie New Water Treatment and Water Reclamation Facility Progressive Design-Build, Davie, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES</th> <th style="width: 50%; padding: 2px;">CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">2016</td> <td style="text-align: center; padding: 2px;">2016</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2016	2016
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2016	2016				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Technical Leader** responsible for preliminary ROWTP design and plant commissioning in support of developing an alternative brackish water supply and phase out of an existing lime softening facility. Odor abatement was provided by packed tower chemical scrubbers.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<div style="text-align: right; color: #008000; font-weight: bold; font-size: small;">See Project 6 in Section F</div> <b>City of Titusville, Water Master Planning and Distribution System Water Quality Improvements, Titusville, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES</th> <th style="width: 50%; padding: 2px;">CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">2019</td> <td style="text-align: center; padding: 2px;">N/A</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2019	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2019	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Technical Manager** responsible for assessing raw, treated and distribution water quality and identifying methods for improving finished water quality via plant operating set-points, water quality monitoring, and distribution system O&M.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<div style="text-align: right; color: #008000; font-weight: bold; font-size: small;">See Project 7 in Section F</div> <b>City of Titusville, Department of Water Resources Master Services Agreement, Titusville, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES</th> <th style="width: 50%; padding: 2px;">CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">Ongoing</td> <td style="text-align: center; padding: 2px;">N/A</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
Ongoing	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Technical Manager** responsible for assessing raw, treated and distribution water quality and identifying methods for improving finished water quality via plant operating set-points, water quality monitoring, enhanced microbial inactivation for 4-log disinfection, and distribution system O&M.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<div style="text-align: right; color: #008000; font-weight: bold; font-size: small;">See Project 9 in Section F</div> <b>Collier County, Professional Services MSA, Collier County, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES</th> <th style="width: 50%; padding: 2px;">CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">2021</td> <td style="text-align: center; padding: 2px;">N/A</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2021	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
2021	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Technical Leader** responsible for assessing water quality and treatment options in support of the County's capital improvement plan and development of alternative water supply. Tasks included development of water quality goals to ensure compliance with current and future water regulations and meet site specific needs, provide a regulatory compliance update, evaluate water treatment plant and water reclamation plant needs, and development of an implementation plan.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
<div style="text-align: right; color: #008000; font-weight: bold; font-size: small;">See Project 10 in Section F</div> <b>Seminole County, Department of Environmental Services Master Services Agreement, Seminole County, FL</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="width: 50%; padding: 2px;">PROFESSIONAL SERVICES</th> <th style="width: 50%; padding: 2px;">CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">Ongoing</td> <td style="text-align: center; padding: 2px;">N/A</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	Ongoing	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
Ongoing	N/A				
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm				

**Technical Director** responsible for treatment process development for total sulfide and disinfection by-product precursor (TOC and bromide) control. A combination of side stream ozonation and anion exchange resin met the treatment objectives.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Greg Fleming, PSM</b>	Support Services: Surveying	A. TOTAL	B. WITH CURRENT FIRM
		35	19

15. FIRM NAME AND LOCATION (*City and State*)  
 NorthStar Geomatics, Inc., Stuart, FL

16. EDUCATION BS, Land Surveying, University of Florida	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Surveyor and Mapper: FL #4350
--	--

18. OTHER PROFESSIONAL QUALIFICATIONS (*Publications, Organizations, Training, Awards, etc.*)  
 Past President FSMS Indian River Chapter, Education Committee Chairman, FSMS, Indian River Chapter, Technical Session Presenter Florida Joint Mapping Conference.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION ( <i>City and State</i> )	(2) YEAR COMPLETED	
<b>Boundary and Plat LTC Ranch</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2020	N/A

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE  Check if project performed with current firm  
**Surveyor.** Boundary survey of LTC Ranch. Preparation of plat of the LTC Ranch in Port St. Lucie. Topographic surveys of drainage ditches for design of positive outfall from site. Multiple sketch and legal descriptions for easements around and through the sites.

b. (1) TITLE AND LOCATION ( <i>City and State</i> )	(2) YEAR COMPLETED	
<b>Port St. Lucie Well F19</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2020	N/A

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE  Check if project performed with current firm  
**Surveyor.** Topographic survey of Port St. Lucie Well F19 for Holtz Consulting Engineers.

c. (1) TITLE AND LOCATION ( <i>City and State</i> )	(2) YEAR COMPLETED	
<b>South Martin Regional Utilities Well S15</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2021	N/A

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE  Check if project performed with current firm  
**Surveyor.** Topographic survey of South Martin Regional Utilities Well S15. Topographic survey included well site and route for future raw water main, power, and fiber optic cable route. Project was located in Hobe Sound Florida.

d. (1) TITLE AND LOCATION ( <i>City and State</i> )	(2) YEAR COMPLETED	
<b>City of Stuart Reverse Osmosis Concentrate Disposal Line</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2020	N/A

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE  Check if project performed with current firm  
**Surveyor.** Topographic route survey for design of a reverse osmosis concentrate disposal line. The route was approximately 6,100 feet in length.

e. (1) TITLE AND LOCATION ( <i>City and State</i> )	(2) YEAR COMPLETED	
<b>City of Stuart Reverse Osmosis Plant</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2019	N/A

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE  Check if project performed with current firm  
**Surveyor.** Topographic survey of the City of Stuart 10th Street water plant that was used to design a reverse osmosis plant on the existing site. Location of above ground features and below ground features City Staff located using ground penetrating radar.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Dan Zrallack, PE</b>	Support Services: Geotechnical	A. TOTAL	B. WITH CURRENT FIRM
		24	24

15. FIRM NAME AND LOCATION (City and State)  
Ardaman & Associates, Inc., Port St. Lucie, FL

16. EDUCATION BS, Civil Engineering, University of Central Florida	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer: FL #63911
---	--

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Florida Engineering Society (FES) – President of Treasure Coast Chapter (2014-2015)  
 American Society of Civil Engineers (ASCE) – Past President Space Coast Chapter (2005)  
 ACEC of Florida – Chairman of Member Services Committee (2016-2019)  
 National Society of Professional Engineers (NSPE)

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Port St. Lucie, Geotechnical Engineering and Construction Materials Testing Services, Port St. Lucie, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	Ongoing	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Geotechnical Engineer.** Dan provides full service geotechnical engineering services on a wide range of projects including roadways, bridges, culvert replacements, water and wastewater treatment plants, parking garages and buildings. Some of the relevant projects include the following: Various Roadway Projects including Becker Road Phase III, California Boulevard Turn lanes, Melaleuca Blvd. Roadway Bridges and Pedestrian Bridges at Crosstown Pkwy., Savona Blvd., Darwin Blvd. & Selvitz Rd. Various Drainage Canal Stabilization Projects (D-17 Canal, D-9 Canal, E-8 Canal & Kingsway Waterway). Various Sidewalk Projects (Rosser Blvd., Savona Blvd. Selvitz Road, Bayshore Blvd., Cameo Blvd. & Village Green). Port St. Lucie Civic Center, Digital Domain and Torrey Pines Institute.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>St. Lucie County, Continuing Service Contract for Geotechnical Engineering and Construction Materials Testing Services, St. Lucie County, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	Ongoing	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Geotechnical Engineer.** Dan provides full service geotechnical engineering services on a wide range of projects including roadways, bridges, culvert replacements, water and wastewater treatment plants, parking garages and buildings. Some of the relevant projects include the following: Midway Road Widening Project from West of Selvitz Road to South 25th Street, North 2nd Street Roadway and Drainage Improvements, Lakewood Park Various Culvert Replacements (Palomar, Winter Garden Pkwy., Sebastian Rd. and Lakeland Rd.), San Lucie, Harmony Heights and Paradise Park Master Drainage Plan Improvements, Angle Road Pavement Evaluation and South Rock Road Extension Soil Survey, Various Culvert Replacements (Midway Road, Sneed Road, Shinn Road, Russo Road, Christensen Road, etc.), SLC International Airport Runway 9L-27R, and Taylor Creek Dredged Material Maintenance Area.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Indian River County, Continuing Service Contract, Geotechnical and Environmental Engineering &amp; Construction Materials Testing &amp; Inspections, Indian River County, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	Ongoing	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Geotechnical Engineer.** Dan provides full service geotechnical and environmental engineering services and construction materials testing and inspection services on a wide range of projects including roadways, bridges, water and wastewater treatment plants, parking garages and buildings.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Etienne Bourgeois, PE</b>	Support Services: CEI Services	A. TOTAL	B. WITH CURRENT FIRM
		21	4

15. FIRM NAME AND LOCATION (*City and State*)  
 CONSOR Engineers, LLC, Palm City, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Civil Engineering, Pennsylvania State University	Professional Engineer: FL #61623; PA, SC

18. OTHER PROFESSIONAL QUALIFICATIONS (*Publications, Organizations, Training, Awards, etc.*)

Etienne has 21 years of design and construction experience involving roadway, bridge, stormwater management systems, traffic signal, roadway lighting, fiber optic interconnect, water mains, and force mains. He has completed a variety of civil engineering projects in different roles for a variety of public agency clients including cities, counties, and states. His diverse knowledge of roadway and bridge design and construction has proven to be a major asset in resolving construction issues. Additionally, he has 17 years of project experience, which has helped him efficiently manage multiple concurrent projects, many of which have included different project teams, multiple subconsultants, and different scopes of work. Certifications: CTQP Asphalt Paving II; CTQP Final Estimates I & II; CTQP QC Manager; Advanced MOT; Critical Structures Construction Issues - Self Study; FHWA Construction of PCC Pavements; FHWA PCC Paving Inspection; IS 100.b- FEMA; IS 200.b – FEMA; IS 700.a – FEMA; IS 800.b – FEMA; IS 0632.a - FEMA.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Port St. Lucie, Torino Parkway Sidewalk, Port St. Lucie, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2021	N/A
(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Senior Project Engineer.** This city sales tax project involved the construction of two miles of sidewalk, a 150-ft. pedestrian bridge, open and closed drainage systems, guardrail, driveways, crosswalk striping, and signage. Mr. Bourgeois was responsible for the management of the construction and CEI contracts for compliance with the contract documents.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Port St. Lucie, Torino Parkway Roundabouts, Port St. Lucie, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2021	N/A
(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Senior Project Engineer.** This 270-day, sales tax project involved the construction of two roundabouts on Torino Parkway, one at California Boulevard and one at Cashmere Boulevard, without utilizing any lane closures. Construction involved building temporary roadways and sidewalks in order to construct the permanent drainage, watermain deflections, sidewalk, and roadway. Work also included landscaping, irrigation, and lighting. He was responsible for the management of the construction and CEI contracts for compliance with the contract documents.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Port St. Lucie, Paar Drive Sidewalk, Port St. Lucie, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2021	N/A
(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Senior Project Engineer.** This project was 4,400 ft. of sidewalk and driveway construction, bridge deck modifications, signing, and thermoplastic pavement markings. He was responsible for the management of the construction and CEI contracts for compliance with the contract documents.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Port St. Lucie, Boulevard at Gatlin Boulevard Intersection Improvements, Port St. Lucie, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2019	N/A
(3) BRIEF DESCRIPTION ( <i>Brief scope, size, cost, etc.</i> ) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Senior Project Engineer.** This local agency project (LAP) project involved median and turn-lane improvements, roadway modifications, signalization modifications, ADA improvements, milling and resurfacing, stormwater drainage, water and sewer utility adjustments, a new roundabout, and signing and striping. He was responsible for the management of the construction and CEI contracts for compliance with the contract documents.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Robert Eustice, PE</b>	Support Services: Permitting	A. TOTAL	B. WITH CURRENT FIRM
		8	7

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., West Palm Beach , FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MS, Civil Engineering, Florida Atlantic University BS, Civil Engineering, Florida Atlantic University	Professional Engineer: FL #86648

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Robert is experienced in a variety of water resources projects, including flood reduction studies, stormwater master plan studies, permitting, and urban drainage evaluations. He has performed H&H modeling using AdiCPR, Civil 3D Hydraflow, and EPA-SWMM. Along with his modeling experience, he is proficient in ArcGIS and AutoCAD where he has used those tools to aggregate data for land use and stage storage calculations.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	See Project 2 in Section F	(2) YEAR COMPLETED	
<b>Town of Lake Clarke Shores, Professional Services, Lake Clarke Shores, FL</b>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		Ongoing	Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Engineer.** Provide technical training to Town of Lake Clarke Shore staff on uses of ESRI ArcGIS, field data collection through remote sensing, and database management best practices. Maintain the towns ArcGIS database for assets management purposes and update system with newly constructed projects.

b. (1) TITLE AND LOCATION (City and State)	See Project 3 in Section F	(2) YEAR COMPLETED	
<b>City of Boynton Beach, Continuing Services Contract, Boynton Beach, FL</b>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2016	2016
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Engineer.** Assisted in the design of the drainage improvement within a 24 acres historic community within Boynton Beach. The project consisted of approximately 1,744 LF of exfiltration trench, 3,243 LF of swale excavation, minor sewer and water line relocation, and ancillary restoration of the right-of-way. AECOM designed, permitted, and is conducting the construction inspection services for the project.

c. (1) TITLE AND LOCATION (City and State)	See Project 4 in Section F	(2) YEAR COMPLETED	
<b>Palm Beach County, Beeline Community Development District Phase 2, Palm Beach County, FL</b>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2019	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Engineer.** Obtained right of way permit from Palm Beach County for the construction of the installation of new fire hydrants and service lines to a buildings fire suppression system. Coordinated work with Palm Beach County Water Utilities and Palm Beach County Fire Department for approval.

d. (1) TITLE AND LOCATION (City and State)	See Project 5 in Section F	(2) YEAR COMPLETED	
<b>City of Miramar, Historic Miramar Infrastructure Improvements Phase 3, Miramar, FL</b>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Engineer.** Environmental Permitting for the construction of approximately 1,744 LF of exfiltration trench through Miami-Dade County Department of Environmental Resource Management permit. The project also included construction of 3,243 LF of swales, and sewer and water line relocations.

e. (1) TITLE AND LOCATION (City and State)	See Project 6 in Section F	(2) YEAR COMPLETED	
<b>Monroe County, US Navy SOF Boat Dock Facility, Monroe County, FL</b>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2017	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Engineer.** Environmental Permitting for improvements to an existing boat dock facility including dock demolition and reconstruction, dredging, installation of shoreline revetment, fenders and a wave attenuation structure with flushing culvert. Permitting issues included seagrasses and corals. Permitting agencies included the Florida Department of Environmental Protection, the US Army Corps of Engineers, the NOAA/Florida Keys National Marine Sanctuary and the South Florida Water Management District for minor upland improvements.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Bill Overbeek, PE, PMP</b>	Support Services: I&C/SCADA	A. TOTAL	B. WITH CURRENT FIRM
		36	6

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Orlando, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Chemical Engineering, Michigan State University BS, Fisheries and Wildlife, Michigan State University BS, Forestry, Calvin College	Professional Engineer: FL #50398; AL, GA, LA, MI, MN, SC, TX, VA Project Management Professional

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Bill has 36 years of experience in the areas of process instrumentation and control, SCADA systems, including design, specification, programming, and implementation of Programmable Logic Controller (PLC) based on SCADA and process control systems. His primary focus is on programming and applying field-tested standards to PLC ladder logic and operator workstation software packages. Bill specializes in water/wastewater treatment applications with a strong background in SCADA system design, construction, integration, and start-up systems.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
<b>Collier County, Professional Services MSA, Collier County, FL</b> <small style="color: green; font-weight: bold;">See Project 9 in Section F</small>	2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Manager and Technical Lead.** The Collier County Professional Services Master Services Agreement includes providing SCADA and I&C services associated with several projects. A series of projects at the North Collier Regional Water Treatment Facility have been conducted under the MSA, and have been primarily SCADA related. Recent projects have included the LCP-1 PLC upgrade, LCP-2 PLC upgrade, Chemical Delivery improvements, Odor Control PLC upgrades, and software improvements and maintenance.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
<b>Collier County, Northern Collier Water Treatment Plant (NCWTP) SCADA Support Services, Fort Myers, FL</b>	Ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Manager** that managed support and engineering services for several I&C and SCADA projects including, Capri Isle PLC Replacement, North County Water Reclamation Facility Report Development, Foxfire and Glades Pump Stations, Immokalee Road and Pelican Bay Wellfield Programming, IQ (Reuse) SCADA System software upgrades, and IQ (Reuse) SCADA WAN integration. All projects were designed and programmed to facilitate integration into the county's existing SCADA system infrastructure.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
<b>Orange County Florida Utilities Department, SWRF SCADA Upgrade Project, Orlando/Orange County, FL</b>	2015
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Manager** that designed, integrated, and programmed SCADA system upgrades at the 43-MGD South Water Reclamation Facility. A series of design-build process improvement projects required coordination of software design, development, and testing for 14 process areas to ensure consistent plant-wide functionality. He also managed the completion of the entire plant control system upgrade, including development and implementation of all new application software for plant PLCs and operator workstations

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED
<b>Orange County Florida Utilities Department, SWRF Influent Pump Station, Orange County, FL</b>	2021
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm

**I&C Technical Lead** responsible for design of instrumentation, controls, and SCADA interface related to construction of a new influent pump station at the 43-MGD South Water Reclamation Facility. An extensive upgrade of the facility's SCADA control system and network was included in the design.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Laura Cherney</b>	Support Services: Environmental Services	A. TOTAL	B. WITH CURRENT FIRM
		23	14

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Coral Fables, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MBA, Executive MBA Program, Florida International University BS, Environmental Engineering Sciences, University of Miami	N/A

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Laura is a Senior Ecologist and an AECOM Project Manager based in the Miami, FL office. Laura has 23 years of extensive experience with marine and terrestrial wetland ecology; threatened and endangered species surveys, NEPA compliance, and environmental resource permitting on projects ranging from large-scale transportation projects to habitat restoration projects. She has in-depth knowledge of federal, state, and local environmental laws and federal regulations.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>U.S. Agency for Global Media, Office of Cuba Broadcasting (OCB) Assessment for Site Flooding and Shoreline Erosion at Radio Transmission Site, Marathon, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2018	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Lead Senior Ecologist** to evaluate the extent of flooding and shoreline erosion at a radio communications site located in Marathon, the Florida Keys.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Florida Fish and Wildlife Conservation Commission (FWC) – New River High School Living Shoreline Project, Broward County, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2019	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Manager** in support of conducting a topographic survey, soil and sediment sampling, and wetland delineation for the future development of the living shoreline. Ecological restoration project site contained an armored shoreline that was identified by FWC as having restoration potential.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Seminole Tribe of Florida – Advanced Mitigation Area Phase II, Brighton Reservation, Glades County, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2020	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Manager** for the development of an 880-acre onsite freshwater wetland mitigation area. Wetland mitigation credits will be used by the Tribe to provide compensation for future development with wetland impacts. Hydrologic and hydrodynamic modeling analysis simulated the conditions pre and post implementation.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>National Park Service (NPS), Big Cypress National Preserve, FL – Hydrologic Restoration Master Plan/Environmental Assessment (EA), Ochopee, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Senior Ecologist** in supporting the preparation of an EA for the Big Cypress National Preserve's preparation of a Hydrologic Restoration Master Plan. NEPA compliance tasks consist of conducting pre-NEPA services to identify data gaps, conducting internal scoping and public scoping, developing and refining alternatives, developing an EA, analyzing and responding to public comments, and conducting public and cooperating agency meetings.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>NPS, Big Cypress National Preserve, FL – Backcountry Access Plan/ Wilderness Study/Environmental Impact Statement (EIS), Ochopee, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2019	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Deputy Project Manager/Senior Ecologist** to facilitate public scoping meetings and serve as lead technical writer to support the preparation of an EIS for public review, and approval by NPS.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		A. TOTAL	B. WITH CURRENT FIRM
<b>Ira Brandell, PE</b>	Support Services: Electrical	50	42

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., West Palm Beach , FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Electrical Engineering, University of New York City	Professional Engineer: FL #65814; AZ, CA, GA, HI, NM

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Ira is a senior project manager/engineer specializing in the design and evaluation of process electrical power and control systems, emergency generation and lighting systems, and instrumentation for water and wastewater facilities. Ira conducts visual needs assessment of electrical equipment, prepares preliminary design reports, prepares electrical design development reports and basis of design reports for critical infrastructure facilities.

### 19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	See Project 3 in Section F	(2) YEAR COMPLETED				
	<b>City of Boynton Beach, Continuing Services Contract, Boynton Beach, FL</b>		<table border="1" style="width: 100%;"> <thead> <tr> <th>PROFESSIONAL SERVICES</th> <th>CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2016</td> <td style="text-align: center;">2018</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2016	2018
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
2016	2018						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm				

**Electrical Engineer.** Design-build support for civil engineering, water resources, water treatment, stormwater design and distribution/conveyance and lift and pump station services.

b.	(1) TITLE AND LOCATION (City and State)	See Project 4 in Section F	(2) YEAR COMPLETED				
	<b>Town of Davie, Water Treatment Plant and Wastewater System Expansion Progressive Design-Build, Davie, FL</b>		<table border="1" style="width: 100%;"> <thead> <tr> <th>PROFESSIONAL SERVICES</th> <th>CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2016</td> <td style="text-align: center;">2016</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2016	2016
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
2016	2016						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm				

**Electrical Design Reviewer.** Technical review of electrical design drawings for design-build project which includes raw water wells, water treatment facility, and wastewater reclamation facility.

c.	(1) TITLE AND LOCATION (City and State)	See Project in 9 Section F	(2) YEAR COMPLETED				
	<b>Collier County, Professional Services MSA, Collier County, FL</b>		<table border="1" style="width: 100%;"> <thead> <tr> <th>PROFESSIONAL SERVICES</th> <th>CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2021</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2021	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
2021	N/A						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm				

**Electrical Engineer.** Design-build support for SRO-Well 10 and Water Quality Monitoring Panels for Boyne and Pelican Bay. These projects are currently under construction.

d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
	<b>Miami-Dade Water and Sewer Department, Preston Water Treatment Plant, Miami, FL</b>	<table border="1" style="width: 100%;"> <thead> <tr> <th>PROFESSIONAL SERVICES</th> <th>CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2016</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2016	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
2016	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm				

**Lead Electrical Engineer.** Design of electrical system for a new sodium hypochlorite storage facility, including air compressor for transferring product from a rail car into the storage tanks, and transfer pumps to day tanks at two water treatment plants located adjacent to each other, Preston and Hialeah.

e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED				
	<b>City of Hollywood, Lift Station Conversion and Upgrade Program, Hollywood, FL</b>	<table border="1" style="width: 100%;"> <thead> <tr> <th>PROFESSIONAL SERVICES</th> <th>CONSTRUCTION (If applicable)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2017</td> <td style="text-align: center;">N/A</td> </tr> </tbody> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2017	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
2017	N/A					
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm				

**Lead Electrical Engineer.** Provided design for rehabilitation of 11 sewer lift stations to replace the city's existing canned lift stations with submersible pumps. The existing remote terminal units are being reused with updated programmable logic controllers for control.



## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Marcia Tobin, AICP</b>	Support Services: Resiliency	A. TOTAL	B. WITH CURRENT FIRM
		27	21

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Arlington, VA

16. EDUCATION MA, Geology/Geochemistry, Columbia University MS, Environmental Chemistry, Yale University BLA, Landscape Architecture, State University of New York	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Certified Planner #028658
---	---

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Marcia is an urban and environmental planner with extensive experience creating integrated solutions to complex planning challenges. Marcia has led AECOM's resilience planning work with Miami Beach and the City Manager's Resilience Team since 2015, directing analyses and developing tools to assist in key decisions for building greater resilience to flooding and sea level rise hazards. Marcia collaborates with clients to identify and implement strategies that build and sustain thriving communities. Recent work has focused on climate adaptation and resilience, flood mitigation, and infrastructure reliability.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State) <span style="float: right; color: green;">See Project 9 in Section F</span>	(2) YEAR COMPLETED	
<b>Collier County, Professional Services MSA, Collier County, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2021	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Climate Vulnerability and Resilience Lead.** Climate vulnerability assessment of assets and infrastructure as part of the County's Utility Master Plan. Changing climate conditions including rising sea levels, increased storm frequency and intensity, and higher average temperatures.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Hampton Roads Planning District Commission, Flooding and Sea Level Rise Resilience, Hampton Roads, VA</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2018	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Resilience Strategies Lead.** AECOM is supporting the Joint Land Use Study (JLUS) aimed at identifying, developing, and implementing measures to facilitate development compatible with military installation readiness and operations.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Miami Beach, Climate Resilience Program, Miami, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2018	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Director.** Directed a multi-disciplinary team in partnership with City leadership and staff to develop an island-wide resilience program to protect critical assets and the built environment from sea level rise and increased flooding intensity. Included review and revision of the City's building and development codes, assessment of the vulnerabilities of the City's critical assets to chronic climate stresses, and identification of strategic adaptation strategies and actions including use of green infrastructure and natural coastal barriers and living shorelines.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Public Utilities Commission (SFPUC), Sewer System Improvement Program, San Francisco, CA</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2014	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Senior Planner.** AECOM assessed each of the City's eight watersheds, documenting current conditions, challenges and project opportunities for improvements using both gray and green infrastructure.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>New York State Offices of General Services and Climate Change, Climate Vulnerability and Adaptation Program, New York City, NY</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm

**Project Director/Resilience Strategies Lead.** As part of the State's commitment to climate leadership and community protection (Climate Act 2019), the AECOM team is working with 35 agencies to assess vulnerability to changing climate conditions. Agencies include Environmental Conservation, Transportation, Parks Recreation and Historic Preservation, and the Adirondack Park, among others.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		A. TOTAL	B. WITH CURRENT FIRM
<b>Brian Mekarski, CRB</b>	Support Services: Right-of-Way and Property Acquisition	39	28

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., West Palm Beach, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Business Administration, University of Central Florida	Real Estate Broker: FL #400501 Asbestos Inspector/Asbestos Management Planner

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Brian is AECOM's Right-of-Way Program Manager responsible for the unit's P&L, organizational management, program/project oversight, corporate reporting, and securing new business partnerships. He has been in the right of way profession since 1982. He is currently the right-of-way project manager for the Florida Department of Transportation (FDOT) Districtwide Right of Way Continuing Support contract (District 4). Brian is also AECOM's project manager on several District 4 right-of-way projects under a district-wide contract. Before joining AECOM (formerly known as Earth Tech) in 1992, Brian managed numerous projects for FDOT and several counties throughout Florida. In the early 1990s, he was the consultant right-of-way program manager for Florida Turnpike projects, including the Veteran's Expressway in Tampa and on several Orlando-Orange and Seminole County Expressways in Central Florida.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Florida Department of Transportation, District-wide Acquisition Services Contract, District 4, FL</b>	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Manager.** Manage several right-of-way projects (Kings Highway, SR 714 and I-95 @ Central Blvd.), including acquisition, relocation and property management activities.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Florida Department of Transportation, Palmetto Expressway – Seg. 1, District 6, FL</b>	2020	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Manager.** Responsible for project management of a road widening project the Palmetto Expressway consisting of approximately 26 parcels in Miami-Dade County, FL.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Florida Department of Transportation, Linton Boulevard, District 4, FL</b>	2019	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Manager.** Responsible for project management under the District-wide Acquisition Service's Contract consisting of 18 parcels in Delray Beach, FL.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Florida Department of Transportation, SR 997 / Krome Avenue, District 6, FL</b>	2018	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Manager.** Responsible for project management of a road widening project of a rural/farmland corridor (3.56 miles) consisting of approximately 30 parcels in Miami-Dade County, FL.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Florida Department of Transportation, Crosstown Parkway Extension, District 4, FL</b>	2016	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**Project Manager.** Responsible for project management of a mixed use corridor (1.3 mile) consisting of 85 parcels in Port St. Lucie, FL.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		A. TOTAL	B. WITH CURRENT FIRM
<b>Khalid Motiwala, PE</b>	Support Services: Structural	28	15

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Tampa, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Civil Engineering, University of Central Florida	Professional Engineer: FL #50633; GA

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Khalid specializes in civil and structural engineering projects for the design of water and wastewater treatment facilities, pump stations, box culverts, retaining walls, industrial and manufacturing facilities, as well as assessment of existing infrastructure and facility engineering. As a lead structural engineer, his expertise consists of computer-aided finite element analysis of structures, design of cast-in-place concrete structures for the environmental industry, and design of pre-cast concrete, masonry, timber, and steel structures.

### 19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION (City and State)	See Project 4 in Section F	(2) YEAR COMPLETED				
	<b>Town of Davie, New Water Treatment and Water Reclamation Facility Progressive Design-Build, Davie, FL</b>		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr style="background-color: #d3d3d3;"> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td>2016</td> <td>2016</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2016	2016
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
2016	2016						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm				

**Lead Structural Engineer.** AECOM served as the prime contractor for the progressive design-build of the Davie Clean Water Project. This project combined a new 6 MGD Reverse Osmosis (RO) water treatment plant with a 3.5 MGD Membrane Bio Reactor (MBR) water reclamation facility in order to help meet the Town's objectives of "Making Davie Clean through Green." The Town upgraded the system due to two large planned developments which resulted in steep increases to both the demand for potable water and wastewater treatment capacity.

b.	(1) TITLE AND LOCATION (City and State)	See Project 5 in Section F	(2) YEAR COMPLETED				
	<b>City of Hollywood, Professional Continuing Services: Various Pump/Lift Stations Conversion Program, Hollywood, FL</b>		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr style="background-color: #d3d3d3;"> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td>2020</td> <td>2020</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2020	2020
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
2020	2020						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm				

**Lead Structural Engineer.** AECOM's current Professional Services Agreement with the City of Hollywood, Florida has been in force since 2003. As part of the agreement, AECOM was assigned various task orders. A series of task orders related to a replacement program involved professional services for 18 City-owned lift stations. AECOM's phased program approach has delivered each station within budget and schedule.

c.	(1) TITLE AND LOCATION (City and State)	See Project 9 in Section F	(2) YEAR COMPLETED				
	<b>Collier County, Professional Services MSA, Collier County, FL</b>		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr style="background-color: #d3d3d3;"> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td>2021</td> <td>N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2021	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
2021	N/A						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm				

**Lead Structural Engineer.** AECOM has served as a consultant to the Collier County Public Utilities Division since September 2005 under successive continuing services contracts. Since 2005, we have completed more than 100 task orders under the continuing service contracts. AECOM provided planning, design, permitting, and construction phase services on a wide range of projects.

d.	(1) TITLE AND LOCATION (City and State)	See Project 9 in Section F	(2) YEAR COMPLETED				
	<b>Orange County, South Water Reclamation Facility Phase V Improvements, Orange County, FL</b>		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr style="background-color: #d3d3d3;"> <th style="width: 50%;">PROFESSIONAL SERVICES</th> <th style="width: 50%;">CONSTRUCTION (If applicable)</th> </tr> <tr> <td>2020</td> <td>N/A</td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2020	N/A
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
2020	N/A						
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm				

**Lead Structural Engineer.** This project required retrofit of the influent flow channels of the influent pump station, which exhibited signs of severe corrosion. The roof of the channel was strengthened with steel reinforcement, a high strength trowel mortar mix was applied to build up the channel roof slab and walls, and a polymer lining system applied to the exposed concrete for protection from corrosion.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Peter May, PE</b>	Support Services: Civil/Site	A. TOTAL	B. WITH CURRENT FIRM
		20	15

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., West Palm Beach, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Civil Engineering, Valparaiso University	Professional Engineer: FL #64374; IN

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Peter is a senior project engineer with two decades of experience in various water resource, highway, land development, and municipal design projects. He has served as lead project engineer for many local roadway and streetscape projects focused on drainage and utility improvements, hardscaping, landscaping, on-street parking, sidewalk, rain gardens and lighting. His experience also includes traffic analysis and surveying.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Florida Power and Light – Port Everglades Canal Stabilization Project, Fort Lauderdale, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2018	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Project Engineer.</b> Design, permit, and construct one (1) mile of canal bank stabilization for the intake canal to the power plant.		

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of West Palm Beach, Community Redevelopment Agency, 7th Street Square, West Palm Beach, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2015	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Lead Project Engineer</b> for the roadway and streetscape project located along 7th Street and North Tamarind in the City of West Palm Beach. The project included the reconstruction of 7th Street between the CSX railroad and Douglas Avenue with the addition of on-street parking, sidewalk, rain gardens, drainage improvements, hardscaping, landscaping, and lighting.		

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of West Palm Beach, Edmor Road and Lakewood Road - Phase 2, West Palm Beach, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2014	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Lead Project Engineer</b> for the drainage and utility improvement project that involved the implementation of major drainage improvements associated with the City's stormwater master plan. The project included the design of the stormwater system, sanitary and water utilities, reconstruction of 1.2 miles of City streets, landscaping, and lighting.		

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Boynton Beach, NE 20th Avenue Drainage Improvements, Boynton Beach, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2017	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Lead Project Engineer</b> for development of construction plans, technical specifications, and permitting for stormwater management improvements within an approximate 10-acre residential neighborhood in Boynton Beach. The project included the addition of approximately 3,000 linear feet of swale grading, 1,500 linear feet of exfiltration trench, curb, roadway restoration, and adjustments to existing water and sanitary utilities.		

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Miramar, Historic Miramar Phases IV, V, &amp; VI Area Wide Drainage Improvements, Miramar, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2020	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
<b>Lead Project Engineer</b> for the study and 2D hydrologic and hydraulic modeling of existing and proposed scenarios to develop schematic designs and planning documents for proposed stormwater management system improvements for 1,800 acres of urbanized area.		

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		A. TOTAL	B. WITH CURRENT FIRM
<b>Felipe Poletto</b>	Support Services: Cost Estimating	17	5

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Tampa, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BS, Civil Engineering, University of Florida	ATSSA Certified SWPPP Certified AACEi ASCE

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Felipe has experience in construction management, change management, scheduling, project controls, right-of-ways, and cost estimating for different types of projects including many international and municipal airports. Currently, he is the manager of the estimating and scheduling practice for the Florida Region responsible for a multitude of estimates and schedules for the many Departments of Transportation, Bureau of Reclamation, as well as Department of Defense clients such as the Air Force, USACE, and NAVFAC SE.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Hillsborough County Aviation Authority, Tampa International Taxiway A and Bridge Construction, Tampa, FL</b>	2018	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Estimator.** Led team providing cost estimates at development stages 60%, 90%, and 100% for the \$80 Million-dollar Taxiway A Improvements and Bridge Construction.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Palm Beach International Airport, Mater Plan Projects, Palm Beach, FL</b>	2018	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Estimator.** Provided Class C estimates for the Master Plan for the years of 2016 thru beyond 2035 – reconfiguring runways, building facilities and terminal renovation. Provided the team with construction cost estimate of Airport (Airside) Development, Commercial Passenger/Terminal Development, General Aviation Development, Air Cargo Development, and cost analysis for Right-of-Way acquisition needed to airport safety zone expansion.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Palm Beach County Department of Airports, Palm Beach International Airport Taxiway A Construction, West Palm Beach, FL</b>	2017	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Change Order Analyst.** Provided change order analysis and recommendations for the Palm Beach International Airport for multiple change orders related to drainage repairs, canal realignment vs. box culvert, taxiway repairs, roof repairs at terminal maintenance facility, etc.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Bulk Fuel Storage, US Army Corps of Engineers, Campia Turzii, Romania</b>	2020	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
**Estimator.** Led Cost Estimating team in providing construction cost estimate and construction schedule from 15% to 100% design. The \$30M project involves building two bulk fuel storage tanks, rail and truck offloading stations, filtration building with mechanical equipment, fueling mechanical equipment, fuel transfer pipeline, site utilities, fuel truck haul road, and railway construction.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
		A. TOTAL	B. WITH CURRENT FIRM
<b>Joseph Helkowski, GISP</b>	Support Services: GIS	26	15

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Fort Lauderdale, FL

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
MS, Information Technology, University of Wisconsin BS, Biology, Stetson University	Geographical Information Systems Professional: FL #33740

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Joseph is a Data Science/GIS Manager with both skills and experiences in hydrological modeling, GIS applications and development, remote sensing image processing, environmental impact analysis, and feasibility fatal flaw analysis. His focus is on delivering solutions for data development, processing, modeling, analysis, map production, visualization and content delivery. He routinely provides geospatial and data management services to facilitate onshore and offshore environmental assessments, impact studies, and project siting. He has managed tasks and supported a broad range of projects within multiple disciplines throughout the United States, Middle East, and South America.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Collier County, Public Utilities Master Plan, Collier County, FL</b>	2014	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**GIS Coordinator** in charge of the data collection and review for the Public Utilities Master Plan. Responsible for data management, map production, and coordination of GIS staff to support the hydrological modelers and project engineers.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>City of Cape Coral, Gator Slough Wier Improvements Water Budget Tool, Cape Coral, FL</b>	2014	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**GIS Task Lead** responsible for data management, data development, and map production. Coordinated directly with engineers and hydrological modelers for data development and quality control.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>City of Belle Glade, Stormwater Assessment Database, Belle Glade, FL</b>	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**GIS Task Lead** for designing and developing a database with an interface that the user can import the NAV file format as is delivered by the West Palm Beach County Property Appraisers Office, add/update the storm water assessment values, QA/QC the data, archive, and export the data in the NAV format of fixed field lengths to be delivered back to the County Property Appraisers Office. Interfaced with the client directly during the design phase and training. Provided annual technical support as needed.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>Florida Department of Transportation – District 4, Traffic Operations Study, Fort Lauderdale, FL</b>	Ongoing	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**GIS/Data Manager** responsible for developing customized ArcGIS tools for querying and analyzing crash data to identify and prioritize locations for actionable performance measures. A Clustering Analysis GIS Tool was developed to identify locations that meet user specified roadway and crash frequency criteria. This tool resulted in substantial savings to the District in developing safety projects to meet the goals specified in the Strategic Highway Plan. Also, provided on-site support to the District 4 Safety Office in analyzing off- system roadway crash data using similar GIS tools developed as part of on-site support assignment. This analysis is performed annually to regularly include newly released data from the CARS database.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT			
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Devan Thomas, PEng</b>	Support Services: Asset Management	A. TOTAL	B. WITH CURRENT FIRM
		27	22

15. FIRM NAME AND LOCATION (City and State)  
 AECOM Technical Services, Inc., Markham, ON

16. EDUCATION	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
BSc, Water Resources Engineering, University of Guelph BA, Physical Geography, York University	Professional Engineer: Canada

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
 Devan has 27 years of experience that has focused on water and wastewater infrastructure planning, hydraulic modeling and asset management. He provides technical leadership in master planning, risk assessment and the development of condition assessment and data collection programs and develop rehabilitation and operations and maintenance plans and strategies. Those plans and strategies aim to improve levels of service, extend asset life and reduce life cycle costs. He works extensively with technology providers to effectively leverage the latest tools, integrate with existing systems and enable/improve asset management activities. Devan also serves as Vice Chair of the Asset Management Division of the Utility Engineering and Surveying Institute, an institute of ASCE.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Baltimore, Office of Asset Management Support, Baltimore, MD</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2021	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**Task Leader** coordinating support activities to Office of Asset Management, Department of Public Works, City of Baltimore as part of the Modified Consent Decree Programs.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Region of Peel, Asset Management Strategy, Brampton, Ontario</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2019	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**Technical Lead.** Developed detailed asset management strategy for which all water and wastewater assets in the Region could be evaluated. The project involved a detailed assessment of all data sources and data maintenance/management process and identification of data gaps and creation of plans to improve data quality. The project included the development of algorithms and prototype databases for the prioritization of water and wastewater linear infrastructure. Workshops were held with key regional staff to establish how infrastructure management decisions would be undertaken including consideration for an asset's condition, performance and risk factors.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Detroit Water and Sewerage Department, Capital Improvement Program Management Organization, Detroit, MI</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2021	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**Planning Manager** for the \$400MM USD CIP Management Organization (DWSD) implementing water distribution system and wastewater collection system improvements across the City based on asset management principles.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>Allegheny County Sanitary Authority, Regionalization Program, Allegheny County, PA</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2018	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**Program and Asset Management Advisor** for the assessment, on-boarding and rehabilitation of collection system infrastructure from 84 municipalities flowing into ALCOSAN's system.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>DeKalb County, DeKalb County Capital Improvements Plan, DeKalb County, GA</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2020	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	

**Task Leader** for developing scope (Task 5) and execution (Task 6) of a Master Plan for the County's Water, Wastewater and Recycled Water Systems. The Master Plan will identify capital improvements required to accommodate growth, intensification, infrastructure life cycle needs and operational improvements over a 25-year planning horizon.

## E. RESUMES OF PERSONNEL PROPOSED FOR THIS CONTRACT

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
<b>Don Berryhill, PE</b>	Support Services: Grant & Loan Funding	A. TOTAL	B. WITH CURRENT FIRM
		45	9.5

15. FIRM NAME AND LOCATION (City and State)  
The Berryhill Group, LLC, Riverview, FL

16. EDUCATION MS, Environmental Health Engineering BS, Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer: FL #32869
--	--

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)  
Don has 45 years of experience in responsible positions in state government and in the private sector. The past 30 years his work has been devoted to funding of environmental infrastructure projects. He has successfully worked with local government elected officials, staff and consulting engineers in the implementation of projects by developing affordable funding solutions.

### 19. RELEVANT PROJECTS

a. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Daytona Beach, Westside Regional WRF Improvements, Daytona Beach, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2021	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
Major improvements and upgrades to the WRF with a CMAR GMP of \$39.9 million that included the Owner's contingency. Total SRF Loan of \$43.6 million required to cover Allowance, Construction, and CEI services. Construction portion of the SRF loan was at 0.00% interest rate. The Berryhill Group assisted with the complete SRF process from pre-construction through construction contract award.

b. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Gulfport, SSES and Major Rehab, Gulfport, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2020	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
SSES of entire wastewater collection system and major rehab to reduce infiltration and inflow to prevent SSO's. Secured \$1.5 million for Phase 1 SSES and an additional \$600,000 for Phase 2 SSES to complete system wide SSES. Construction funds of \$2.5 million secured through the SRF for the rehab work that was completed in 2020. A major rehab and pump replacement is currently under construction for the two major lift stations that serve the City.

c. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>St. Johns County, Players Club/Innlet Beach WRF Improvements, St. Johns County, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2020	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
Major upgrade and expansion of the WRF and Innlet Beach Pump Station. Provided CWSRF loan administrative and compliance services for the project. Services included SRF loan applications, Facilities Plan assistance that included Capital Financing Plan and public participation process.

d. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Daytona Beach, Orange Avenue Infrastructure Improvements, Daytona Beach, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2019	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
Aging and failing underground infrastructure on Orange Avenue was replaced. Work included the replacement of the water, sewer (gravity and pressure), and stormwater pipes; pavement, sidewalks, curbs, gutters, and associated appurtenances. A new reclaimed water distribution line was installed. Construction cost of \$11.9 million was provided by a CWSRF loan, a DWSRF loan and FDOT grants. Provided SRF administrative services, SRF compliance services, and funding coordination for multiple funding sources through all phases of the project.

e. (1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
<b>City of Titusville, Mourning Dove Water Treatment Plant, Titusville, FL</b>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	Ongoing	N/A

(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE  Check if project performed with current firm  
Provided DWSRF planning and application services for funding of improvements to the sludge management system for the WTP. Project has been bid and construction is scheduled to start. Services included development of the required Business Plan as a part of the facilities planning requirements.



## F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER

1

21. TITLE AND LOCATION (City and State)

**Palm Beach County WUD Master Pump Station Contract, Palm Beach County, FL**

22. YEAR COMPLETED

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

Ongoing

N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

Palm Beach County Water Utilities Department

b. POINT OF CONTACT NAME

Krystin Berntsen

c. POINT OF CONTACT TELEPHONE NUMBER

561.493.6027

kberntsen@pbcwater.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



### SECTION E KEY PERSONNEL:

Vaughn Hayduk, Jeremy Koch, David Wilcox, Karen Brandon, Bozho Handjiev

### DURATION:

2021 - Ongoing

### COST:

Fee: Varies

### RELEVANCE TO THIS CONTRACT:

- Pump Station Planning and Design
- Rehabilitation and Renewal
- SCADA

- Pump Station Control Design
- Modeling of Hydraulics

### Project Overview

Palm Beach County Water Utilities Department (PBCWUD) is engaged in the rehabilitation and improvements of approximately ten master repump stations, two master lift stations, and one vacuum station in the PBCWUD service area. The master repump stations are critical assets that typically use in-line booster pumps on variable frequency drives located in a building complex to convey flow from several lift stations toward the wastewater treatment plant. They are significantly larger and more complex than a lift station, and require detailed design of more engineering disciplines. The master lift stations are large lift stations that receive flow from multiple other lift stations and typically use submersible pumps in a wetwell. The vacuum station conveys flow from a dedicated vacuum collection piping system using a vacuum tank, vacuum pumps and centrifugal pumps in an enclosed building.

### Scope of Work

AECOM is leading a group of seven professional consulting firms to complete the planning, engineering and construction support for all of these projects. The work is being completed over a 5-year period with various projects completed under this single contract.

Work includes rehabilitation and renewal of existing systems as well as full replacement. At least two existing wet well

submersible style lift stations are being demolished and replaced with new closed pipe repump booster type of stations. These new stations will mitigate the risks of potential spills as well as reduce odors and corrosion. Challenges of such stations is effectively managing the flows over the wide range of flows and pressures through proper pump selection and controls systems.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	AECOM	West Palm Beach, FL	Prime

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

20. EXAMPLE PROJECT KEY NUMBER

2

21. TITLE AND LOCATION (City and State)

**Town of Lake Clarke Shores Professional Services, Lake Clarke Shores, FL**

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	Ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Town of Lake Clarke Shores	b. POINT OF CONTACT NAME Daniel Clark	c. POINT OF CONTACT TELEPHONE NUMBER 561.964.1515 dclark@lakeclarke.org
--	--	---

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



**SECTION E KEY PERSONNEL:**

Bill Snow, Karen Brandon, Sheldon Barnes, Robert Eustice, Kurt Ahlgrim, Vaughn Hayduk

**DURATION:**

2003 - Ongoing

**COST:**

Annual Fee: \$250K

**RELEVANCE TO THIS CONTRACT:**

- Sewer Master Plan
- Lift Station Upgrades
- Utility Relocation
- Water Mains
- Sewer Rehabilitation

- Neighborhood Improvements
- Continuing Contract for General Utility Engineering Services

**Project Overview**

AECOM has provided professional consulting services to the Town since 2003 for all its utility work. The Town of Lake Clarke Shores is responsible for water distribution and wastewater collection systems. Below is a partial list of the utility work we have provided the Town of Lake Clarke Shores:

**General Utility Engineering Services:** Developed the 10-year capital improvement plan and budget for water and wastewater projects, coordinated gravity sewer cleaning, videos and assessment for repairs to reduce the I/I, prepare annual water quality report, and update water and sewer GIS.

**Sewer Rehabilitation:** Phase 1 and Phase 2 Sewer rehabilitation projects in the South Service area. Project consisted of approximately 20,000-feet of Cured in Place sewer pipe liners for clay piping, manhole rehabilitation and lift station upgrades. Phase 2 was a Community Development Block Grant project.

**Sewer Master Plan:** Developed a sewer master plan for the Town and commercial area along Forest Hill Boulevard. The Town's homes are currently on septic tank systems. The Master Plan compared a gravity system vs a vacuum sewer system. The Town was split into three service areas.

**Carandis Road/Mango Circle Water Main Extension Phases 1 and 2:** These two projects included a total of 1,865-feet of 8-inch PVC water main, fire hydrants, valves and residential water services. Work included Health department

permitting and engineering services during construction and project closeout.

**Lift Station Upgrades:** Work consisted of upgrades to a total of 7 wastewater lift stations that included all new electrical control panels and pumps for sewer lift stations 1, 3, 5, 8, 10, 11 and 12.

**Lawrence Road HDD Utility Relocation Project:** Project included relocation of approximately 500-feet of 6-inch sewer force main and two parallel 8-inch water main (approximately 500-feet each) utilizing a HDD method. Engineering services during construction and project closeout were also provided.

**Utility Relocation Project for Seminole Drive Bridge Replacement at L-16 Canal:** Project includes approximately 260 feet of new 12-inch HDPE water main, and 400 feet of 10-inch HDPE force main, both installed by horizontal directional drill method, upgrade to pump station LCS-2, ahead of FDOT bridge replacement.

**Auburn Park Development Utility Improvements:** In support of a new 23 home development we provided engineering services for a new lift station, water mains, fire hydrants, gravity sewers and force mains.

**Forest Hill Boulevard Area 1 Gravity Sewer Project:** Project included a new lift station, approximately 1,400-feet of 4-inch force main to the point of connection of an existing force main within the Florida Mango Road right-of-way and approximately 2,130-feet of 8-inch PVC gravity sewer main with associated manholes and appurtenances.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. AECOM	West Palm Beach, FL	Prime

## F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER

3

21. TITLE AND LOCATION (City and State)

**City of Boynton Beach Continuing Services Contract, Boynton Beach, FL**

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2016	2018

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Boynton Beach	b. POINT OF CONTACT NAME Angela Prymas	c. POINT OF CONTACT TELEPHONE NUMBER 561.742.6421 prymasa@bbfl.us.com
---	---	---

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



### Project Overview

As one of the City's General Services Consultant, AECOM has provided civil engineering, water resources, water treatment, stormwater design and distribution/conveyance and lift and pump station services. Some examples of the work include:

**Water Treatment Plant Upgrades - Ion Exchange Treatability Study, Piloting & Design:** In support of the City's desire to interconnect the two water treatment plants, our work evaluated conveyance and pre-treatment of 16 mgd and 20 mgd future flow to the East WTP. Efforts included preliminary design for pre-filtration, anion exchange, and booster pump station for the surficial wellfield raw water prior to conveyance in the transmission main. Our team conducted a pilot study of two strainer filtration units to determine the effectiveness of removing sand particles from the western well raw water supply for comparison of treatment performance and associated costs.

AECOM completed a study of the existing raw water western well field data to understand the cause for excessive particulate material coming from the well field. We implemented a testing program to measure volumes of sand generated by 11 production wells and identified problematic wells. We completed the 30% design and specifications for the Anion Treatment Plant and prepared the designbuild bid package.

#### SECTION E KEY PERSONNEL:

Bill Snow, Karen Brandon, Sheldon Barnes, Robert Eustice, Ira Brandell, Dawn Jakiela

#### DURATION:

2010 - 2018

#### COST:

Fee: Individual task <\$200K

#### RELEVANCE TO THIS CONTRACT:

- Raw Water Main Design
- Construction Administration Services

- Permitting
- WTP Upgrade Study, Piloting & Design

**NE 20th Avenue Drainage Improvement Project:** Localized flooding occurs several times a year in the community near NE 1st Street and NE 6th Avenue, which shuts down streets and roads. When the streets flood, it causes hardship and disruptions to community access and egress, with residents and elected officials identifying flooding as a priority resource management concern.

**Traffic Engineering:** AECOM conducted traffic observations, lane closure analysis to accommodate construction work related to utilities, per the FDOT Plans Preparation Manual, and operational analysis for two lane closure alternatives along eastbound Boynton Beach Boulevard near Military Trail. Traffic observations were conducted during AM and PM peak hours to assess the existing level of congestion on the eastbound approach. The lane closure analysis was conducted using historic 24-hour traffic data and existing signal timing information to determine if a lane closure should be allowed, and the time of day that the lane closure could occur without excessive travel delay.

**36-inch Raw Water Main Interconnect – Section-A:** AECOM completed the route analysis study, hydraulic surge analysis, design and construction documents for approximately 8,100-ft of 36-inch raw water main as one of three sections to be constructed (identified as Section A). Of that, two 1,000-ft segments were designed and implemented via horizontal directional drill. Permitting of the work was conducted with FDOT, PBC Engineering, Lake Worth Drainage District, FDEP, and PBC Health Department.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	AECOM	West Palm Beach, FL	Prime

## F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER

4

21. TITLE AND LOCATION (City and State)

**Town of Davie New Water Treatment and Water Reclamation Facility Progressive Design-Build, Davie, FL**

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2016	2016

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER  
Town of Davie

b. POINT OF CONTACT NAME  
Renuka Mohammed

c. POINT OF CONTACT TELEPHONE NUMBER  
954.327.3768  
renuka\_mohammed@davie-fl.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



### SECTION E KEY PERSONNEL:

Bill Snow, Will Lovins,  
Sheldon Barnes, Ira  
Brandell, Michael Bennett,  
Khalid Motiwala, Brian Stitt

### DURATION:

2010 - 2016

### COST:

Fee: \$107M

### RELEVANCE TO THIS CONTRACT:

- Alternative Delivery
- Reverse Osmosis WTP
- Water Reclamation Facility
- Reclaimed Water Mains

- DIW and Production Wells
- Regulatory permitting
- Sustainable Design

### Project Overview

AECOM served as the prime contractor for the progressive design-build of the Davie Clean Water Project. This project combined a new 6 MGD Reverse Osmosis (RO) water treatment plant with a 3.5 MGD Membrane Bio Reactor (MBR) water reclamation facility in order to help meet the Town's objectives of "Making Davie Clean through Green." The Town upgraded the system due to two large planned developments which resulted in steep increases to both the demand for potable water and wastewater treatment capacity.

AECOM was responsible for preparing an overall facility plan for the town. This work entailed an evaluation of existing facilities, capacity and demand evaluation for both water and wastewater, and recommendations on facility needs.

**Alternative Delivery:** This was an open book process where the Town actively participated in the selection of the subcontractors and vendors. Collaborating with the Town, AECOM selected and utilized more than 25 trade subcontractors and 26 process equipment suppliers.

**Constructed Facilities:** The entire facility including a new utility office, administrative and control facilities, emergency power, chemical storage, as well as the new Water Treatment and Water Reclamation Treatment Facility are housed in a contiguous building consisting of more than 100,000 sf. The facility was designed and constructed utilizing sustainable design principals.

**Drinking Water/Wastewater Treatment:** Due to a moratorium on the use of fresh Biscayne aquifer, the WTP processes brackish water from the Floridan aquifer and treats it using Reverse Osmosis (RO) technology consisting of seven RO skids, seven RO feed pumps, seven cartridge filters, an antiscalent system, finished water degasification and odor control system, and a 2.5 MG finished water tank.

**Reclaimed Water Network:** The reclaimed water PVC pipe installed comprised of 18,400 feet of pipeline ranging from 12 to 24-inch in diameter. Method of construction for all offsite and onsite pipe installation consisted of open trench. The offsite reclaimed water network was modeled to optimize pipe sizes, pressures and routing.

**Deep Injection, Exploratory and Production Wells:** This project included the design, permitting, construction and testing for deepwell injection of excess effluent and a Floridan aquifer exploratory-production well identified as TPW-1. Well construction and testing services related to TPW-1 were provided by a licensed water well contractor.

**Permitting and Stakeholder Engagement:** We assisted the town in both selecting and acquiring property for the main facilities and remote sites for raw water wells. Individual design reports were prepared for the raw water supply wells, the water treatment facility, the water reclamation facility, the UIC deep injection wells, and the water reclamation distribution network.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. AECOM	Broward County, FL	Prime

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

20. EXAMPLE PROJECT KEY NUMBER

5

21. TITLE AND LOCATION (City and State)

**City of Hollywood Professional Continuing Services: Various Pump/Lift Stations Conversion Program, Hollywood, FL**

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2020	2020

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Hollywood	b. POINT OF CONTACT NAME Feng Jiang	c. POINT OF CONTACT TELEPHONE NUMBER 954.921.3930 fjiang@hollywoodfl.org
---------------------------------------	--	--

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



**SECTION E KEY PERSONNEL:** Brian Stitt, Sheldon Barnes, Roger Williams, Khalid Motiwala  
**DURATION:** 2018 - 2020  
**COST:** Fee: \$3M

- RELEVANCE TO THIS CONTRACT:**
- Lift Station Upgrades
  - Structural Rehabilitation of LS
  - WM Replacement Plan
  - SFWMD Consumptive Use Permitting
  - Pump and Storage Tank Design/Construction Services
  - WTP Improvements
  - Bond Report

**Project Overview**

AECOM's current Professional Services Agreement with the City of Hollywood, Florida has been in force since 2003. As part of the agreement, AECOM was assigned various task orders. A series of task orders related to a replacement program involved professional services for 18 City-owned lift stations.

AECOM's phased program approach has delivered each station within budget and schedule. AECOM is currently providing construction services for four of the 18 lift stations and final design for a lift station A-5.

**West Hollywood Pump and Storage Facility:** AECOM provided design, bidding, permitting, and construction management services for the \$1M West Hollywood Pumping and Storage Tank Facilities.

**City Model Conversion:** Providing conversion of city-wide water transmission model from WaterCad to Infoworks.

**Stormwater Pump Station #6:** AECOM provided design, permitting, bidding, construction, and start-up phase services for what was ultimately a facility housing two 3,750 gpm stainless steel submersible pumps. The building architecture was designed to match the established and historic neighborhood. The construction project was on time and within budget.

**Lift Station Conversion and Upgrade Program:** Provided design, permitting, bidding, construction and start-up phase

services for the replacement of 11 lift stations ranging from 125 gpm and 725 gpm each.

**Master Lift Station Conversion and Upgrade Program:** Prepared documents for the structural design rehabilitation of three master lift stations.

**City-wide Water Main Repair Evaluation:** Prepared a city-wide water main distribution replacement plan for 220 miles of pipe. Replacement was prioritized in utility analysis zones by ranking of importance factors.

**Johnson Street Water Main Repair:** Prepared contract documents for water main replacements including design, permitting and construction services.

**Water Use Permitting for Membrane Softening Plant Expansion:** Prepared the water use permit renewal request for information with the South Florida Water Management District permit for requested withdrawals from the Biscayne and Floridian aquifers.

**Bond Report for Water Treatment Plant Improvements:** Developed a bond report describing the status of the municipal water treatment supply systems.

**City of Hollywood WTP, Various Water Treatment Plant Improvements:** Provided for the facilities upgrade of a water treatment plant which included spiractor piping modifications, new 9,000-kVA emergency generator facilities, and gravity filter piping and valve replacement, building rehabilitation, and filter operations study.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. AECOM	Fort Lauderdale, FL	Prime

## F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER

6

21. TITLE AND LOCATION (City and State)

**Water Master Planning and Distribution System Water Quality Improvements,**  
Titusville, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2019	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER  
City of Titusville

b. POINT OF CONTACT NAME  
Sean Stauffer

c. POINT OF CONTACT TELEPHONE NUMBER  
321.567.3855  
sean.stauffer@titusville.com

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



### SECTION E KEY PERSONNEL:

Will Lovins, Kurt Ahlgrim,  
Tim Curran

### DURATION:

2017- 2019

### COST:

Fee: \$200K

### RELEVANCE TO THIS CONTRACT:

- Water Master Planning
- Hydraulic Modeling
- Water Quality Improvements

- Resolving Water Distribution/Pressure Issues
- Capital and Operational Improvement Recommendations

### Project Overview

The City of Titusville owns and operates a medium sized potable water treatment and distribution system. Located along the Indian River, west of Merritt Island and the Kennedy Space Center, this historic City pumps groundwater from multiple wellfields for treatment with conventional lime softening and media filtration at the Mourning Dove Water Treatment Plant, originally constructed in the 1960's.

The City retained AECOM to provide master planning and specialized engineering services to improve water quality and pressure within the water distribution system. The work was in response to water quality challenges that resulted in customer taste and odor complaints, regulatory concerns regarding residual chlorine in the distribution system and periodic low pressure experienced during hydrant testing.

Using hydraulic modeling, water quality sampling and profiling of raw, treated and distribution water quality, AECOM determined the City's system is particularly susceptible to water age. This was attributed to the combined effects of chloramine disinfection, natural organic levels in the finished water, and configuration of the 310 miles of distribution piping, storage tanks, and remote storage tank and booster pump station.

As part of the hydraulic model update, demand projections were used to determine hydraulic deficiencies within the

system and to identify characteristics contributing to distribution water quality issues. Pipe material, pipe age, water age, dead ends, low pipe velocities, as well as water quality variations resulting from the interface City of Cocoa water were evaluated. In addition, the hydraulic model was used to evaluate removal of the existing elevated ground storage tanks from service, preparation of uni-directional flushing plans, and development of operating protocols for the Armstrong Booster Pump Station and the City of Cocoa interconnect.

At the conclusion of the project, AECOM identified necessary capital and operational improvements to the treatment and distribution systems. Implementation of the operational and monitoring protocols alleviated the water age issues and boosted chloramine levels throughout the system to levels adequate for controlling biogrowth from nitrification and exceeded regulatory requirements with high margins of safety.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. AECOM	Orlando, FL	Prime

## F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER

7

21. TITLE AND LOCATION (City and State)

Department of Water Resources Master Services Agreement, Titusville, FL

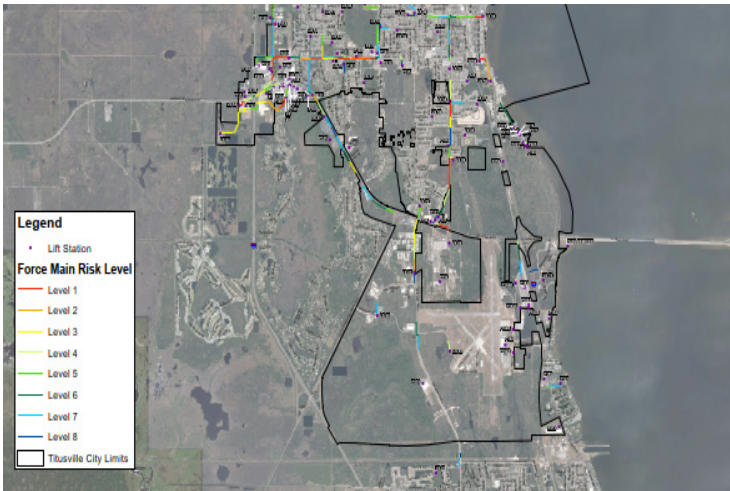
22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Titusville	b. POINT OF CONTACT NAME Sean Stauffer	c. POINT OF CONTACT TELEPHONE NUMBER 321.567.3855 sean.stauffer@titusville.com
--	---	--

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



**SECTION E KEY PERSONNEL:**

Vaughn Hayduk, Tim Curran,  
Will Lovins, Kurt Ahlgrim

**DURATION:**

2017 - Ongoing

**COST:**

Fees: Varies

**RELEVANCE TO THIS CONTRACT:**

- Water Quality Sampling and Studies
- Distribution System Operations and Management
- Hydraulic Modeling
- Unidirectional Flushing
- Wastewater plant improvements
- Water plant improvements
- Facilities planning
- State revolving loan funding support
- Force main design services

### Project Overview

AECOM has been providing professional services to the City of Titusville under a master services agreement since 2017. Multiple projects have been completed including:

**Water Quality Master Plan:** AECOM identified necessary capital and operational improvements to the treatment and distribution systems. Implementation of the operational and monitoring protocols alleviated the water age issues and boosted chloramine levels throughout the system to levels adequate for controlling biogrowth from nitrification and exceeded regulatory requirements with high safety margins.

**Wastewater Master Plan:** Hydraulic modeling was performed to identify capital improvements associated hydraulic capacity limitations and to reroute and rebalance flows between the two wastewater treatment facilities. Asset risk assessment was performed on the wastewater force main system to identify mains with a high risk of failure that should be further assessed and potentially replaced. A capital program identifying recommended condition assessment, lift station and force main upgrades was developed.

**Wastewater Facilities Plan and State Revolving Loan Fund Support:** Prepared a wastewater facilities plan to support the City's application for funds through the State Revolving Loan program. It included multiple wastewater projects to be completed over a five-year period to address aging infrastructure within the City's wastewater service area.

### Blue Heron WRF Sludge Dewatering Improvements:

AECOM provided design, permitting and construction administration services for the installation of a mobile screw press for sludge dewatering at the facility. The mobile system can be utilized at either of the City's wastewater facilities.

**Facilities Planning:** AECOM completed facilities planning associated with building upgrades at the City's water resources department including a new administration building and emergency operations center. AECOM is currently providing planning services for additional City facilities including a new City Hall, police station, fire station and public works building.

**Indian River Force Main Improvements:** Providing design, permitting and construction administration services for 9,000 LF of force main replacement along Indian River Drive. The project is being completed on a fast track basis in response to a force main break that occurred on the force main.

**Water Treatment Plant Disinfection By-Product Formation Potential and CT upgrades:** AECOM provided a desk top evaluation of disinfection contact time to identify options for enhanced disinfection including new piping and other improvements that may be necessary to meet regulatory requirements related to disinfection. AECOM performed water quality sampling and testing to identify the chlorine demand and disinfection by-product (DBP) formation potential.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. AECOM	Orlando, FL	Prime

## F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER

8

21. TITLE AND LOCATION (*City and State*)

**Cape Coral Continuing Services Contract, Cape Coral, FL**

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER  
City of Cape Coral

b. POINT OF CONTACT NAME  
Jody Sorrels

c. POINT OF CONTACT TELEPHONE NUMBER  
239.242.3227  
jsorrels@capecoral.net

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (*Include scope, size, and cost*)



**SECTION E KEY PERSONNEL:**

Dawn Jakiela, Kurt Ahlgrim,  
Tim Curran

**DURATION:**

2004 - Ongoing

**COST:**

Contract Value: \$364K

**RELEVANCE TO THIS CONTRACT:**

- System Evaluation
- Hydraulic Modeling
- Potable Water System Improvements
- Utility Design

- CEI Services
- Continuing Services Contract

### Project Overview

AECOM has served as a consultant to the City of Cape Coral under a continuing service contract since 2004. The services that AECOM has provided include planning, hydraulic modeling, preliminary engineering, design, permitting, and construction phase services on a wide range of projects. The following projects have been provided or are currently in progress:

- Annual Report preparation 2017 - \$34,298
- Annual Report preparation 2015 - \$46,437
- Water Supply Facilities Work Plan update - \$34,836
- Hydraulic Modeling in support for ERP application for Weir 29 - \$46,632
- Feasibility Study for Potential Offline Water Supply Storage - \$48,284
- Midsummer Canal Structural Improvement Assessment - \$47,230
- Gator Slough Weir Improvements/Water Budget Tool - \$47,878
- Evaluation of Engine Classification for Generator compliance with RICE NESHAP requirements - \$31,194
- SOP for RICE NESHAP reporting - \$18,144
- Reuse Interconnect OPCC update - \$8,444
- Palm Tree Boulevard potable water main and pump - station improvements - \$95,536



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION ( <i>City and State</i> )	(3) ROLE
a. AECOM	Fort Myers, FL	Prime



## F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

20. EXAMPLE PROJECT KEY NUMBER

9

21. TITLE AND LOCATION (City and State)

**Collier County Professional Services MSA, Collier County, FL**

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
2021	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER  
Collier County

b. POINT OF CONTACT NAME  
Craig Pajer

c. POINT OF CONTACT TELEPHONE NUMBER  
239.252.2554  
craigpajer@colliergov.net

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



### Project Overview

AECOM has served as a consultant to the Collier County Public Utilities Division since September 2005 under successive continuing services contracts. **Since 2005, we have completed more than 100 task orders under the continuing service contracts.** AECOM provided planning, design, permitting, and construction phase services on a wide range of projects including:

- South County Regional RO WTP Process Skid Performance Evaluation: \$15,000
- North County Regional RO WTP Inter-stage Energy Recovery Turbine Evaluation: \$69,000
- Isle of Capri Pumping Station Hydraulic Improvements Design and Construction: \$57,000
- Carica Pump Station Altitude Valve Replacement: \$15,000
- Henderson Creek Subdivision Water Distribution Improvements, Design and Construction: \$185,800
- North County Water Reclamation Facility: Conceptual Cost Estimate: \$11,000
- Duplex Pump Station Site Improvement Plans: \$97,500
- Master Pump Station Site Improvement Plans: \$51,500
- Carica Pump Station Diesel Fuel Storage Tank Replacement, Design and Construction: \$103,900
- West Wind Mobile Home Park Water Distribution Improvements, Design and Construction: \$299,000

#### SECTION E KEY PERSONNEL:

Will Lovins, Bill Overbeek, Ira Brandell, Khalid Motiwala, Roger Williams, Tim Curran, Dave Wilcox, Reshma Thummadi, Vaughn Hayduk, Dustin Chisum, Dawn Jakiela, Marcia Tobin

#### DURATION:

2005 - 2021

#### COST:

Fees: \$4.3M

#### RELEVANCE TO THIS CONTRACT:

- Continuing Contract for Utility Engineering Services
- Water Distribution Improvements

- Pump Station Improvements
- RO WTP Evaluations
- Electrical Upgrades
- Hydraulic Modeling

- NCRWTP Day Tank Replacement, Design and Construction Services: \$79,000
- South County Regional WTP Reactor Tank #1 Inspection and Structural Evaluation: \$28,000
- South Co. Regional WTP Lime Per Renewal: \$1,600
- North County Water Reclamation Facility Clarifiers 2 & 3 Structural Evaluation: \$46,000
- South County WRF Electrical Upgrade, Design and Construction: \$163,000
- South County Regional WTP Reactor Tanks 2 & 3 Improvements, Planning, Design and Construction Services: \$99,000
- North County Regional WTP PLC I/O Replacement Program, Phases 1 to 4, Design and Construction: \$711,000
- Isle of Capri Pump Station Evaluation: \$15,000
- Wastewater System Hydraulic Model Construction and Validation, Phases 1 and 2: \$146,000
- ARV Replacement Program, Design, Bidding and Construction Services, Phases 1 to 3: \$405,000
- Pelican Bay MPS 109 Upgrade, Planning and Design: \$160,000
- Las Brisas Residential Community Master Water Meter: \$46,000

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. AECOM	Fort Myers, FL	Prime

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

20. EXAMPLE PROJECT KEY NUMBER

10

21. TITLE AND LOCATION (City and State)

**Department of Environmental Services Master Services Agreement, Seminole County, FL**

22. YEAR COMPLETED

PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Ongoing	N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Seminole County	b. POINT OF CONTACT NAME Paul Zimmerman	c. POINT OF CONTACT TELEPHONE NUMBER 407.665.2040 pzimmerman@seminolecountyfl.gov
-------------------------------------	--	---

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)



**SECTION E KEY PERSONNEL:**  
Will Lovins, Tim Curran,  
Kurt Ahlgrim

**DURATION:**  
2007 - Ongoing

**COST:**  
Fee: Varies

- RELEVANCE TO THIS CONTRACT:**
- Lift Station Upgrades
  - Wastewater Collection Rehabilitation
  - Water Transmission and Distribution Improvements
  - Facilities Planning
  - Consumptive Use Permitting
  - Water Quality Master Planning
  - Water Facility Improvements

**Project Overview**

AECOM has been providing professional services to Seminole under a master services agreement since 2000. Multiple projects have been completed including:

**Lift Station Upgrades:** The County retained AECOM to provide preliminary, final design and construction administration services for upgrades to multiple lift stations. The projects included preliminary evaluations to identify upgrades to the stations to bring them into compliance with current County standards and to meet anticipated growth within the collection system. AECOM provided preliminary design services and is currently providing final design services for the planned upgrades.

**Highland Pines Water and Wastewater Improvements:** AECOM is providing preliminary, final design and construction administration services for upgrades within the Highland Pines neighborhood including new water mains, new force mains and rehabilitation of the existing gravity collection system.

**Water Quality Master Plan:** The County retained AECOM to provide master planning and specialized engineering services to improve water quality and pressure within the water distribution system. AECOM identified necessary capital and operational improvements upgrade multiple water treatment facilities and implement operational and monitoring protocols

to improve water quality. Hydraulic modeling was performed for the purpose of managing water age within the system.

**Consumptive Use Permitting Support:** The County retained AECOM to provide services necessary to evaluate compliance with the St. Johns River Water Management District 20-year consumptive use permit. Services included evaluating consumptive use, growth within the service area and monitoring of wetlands within the water service area.

**Facilities Planning:** AECOM completed facilities planning associated with modular building improvements for the County's Yankee Lake WRF in response to an immediate need for additional office facilities for County personnel.

**Markham Woods Water Treatment Plant:** AECOM provided preliminary design, final design and construction administration services for upgrades to the County's Markham Woods WTP. A wellfield management plan was developed to address varying water quality within the wellfield. The plant upgrades included ion exchange for TOC removal, ozone for oxidation of hydrogen sulfide, new ground storage tanks and a new administration building.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a. AECOM	Orlando, FL	Prime

## G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL <i>(From Section E, Block 12)</i>	27. ROLE IN THIS CONTRACT <i>(From Section E, Block 13)</i>	28. EXAMPLE PROJECTS LISTED IN SECTION F									
		1	2	3	4	5	6	7	8	9	10
Karen Brandon, PE	Principal-in-Charge	●	●	●							
Vaughn Hayduk, PE	Project Manager, Wastewater Collection & Conveyance, Hydraulic Modeling	●	●					●		●	
David Wilcox, PE	Technical Advisor: Pumps and Pipelines	●								●	
Jeremy Koch, PE, PMP	Program Management, Alternative Delivery, Wastewater Treatment	●									
Bill Snow, PE	Water Transmission & Distribution		●	●	●						
Kurt Ahlgrim, PE	Water Transmission & Distribution		●				●	●	●		●
Tim Curran, PE	Master Planning						●	●	●	●	●
Dawn Jakiela, PE	Master Planning			●					●	●	
Sheldon Barnes, PE	Pump Stations		●	●	●	●					
Bozho Handjiev, PE	Pump Stations	●									
Dustin Chisum, PE	Wastewater Collection & Conveyance									●	
Brian Stitt, PEng, CBC	Wastewater Treatment, Alternative Delivery				●	●					
Reshma Thummadi, PE	Hydraulic Modeling									●	
Michael Bennett, PG	Hydrogeology				●						
Will Lovins, PhD, PE	Water Treatment/Water Quality, Odor Control				●		●	●		●	●
Robert Eustice, PE	Permitting		●	●							
Bill Overbeek, PE, PMP	I&C/SCADA									●	
Ira Brandell, PE	Electrical			●	●					●	
Khalid Motiwala, PE	Structural				●	●				●	
Marcia Tobin, AICP	Resiliency									●	

In the table above, we are showcasing the team members who were involved in the 10 projects representative of our work.

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (From Section F)	NO.	TITLE OF EXAMPLE PROJECT (From Section F)
1	 <p><b>Palm Beach County WUD Master Pump Station Contract</b> Palm Beach County, FL</p>	6	 <p><b>Water Master Planning and Distribution System Water Quality Improvements</b> Titusville, FL</p>
2	 <p><b>Town of Lake Clarke Shores Professional Services</b> Lake Clarke Shores, FL</p>	7	 <p><b>Department of Water Resources Master Services Agreement</b> Titusville, FL</p>
3	 <p><b>City of Boynton Beach Continuing Services Contract</b> Boynton Beach, FL</p>	8	 <p><b>Cape Coral Continuing Services Contract</b> Cape Coral, FL</p>
4	 <p><b>Town of Davie New Water Treatment and Water Reclamation Facility Progressive Design-Build</b> Davie, FL</p>	9	 <p><b>Collier County Professional Services MSA</b> Collier County, FL</p>
5	 <p><b>City of Hollywood Professional Continuing Services: Various Pump/Lift Stations Conversion Program</b> Hollywood, FL</p>	10	 <p><b>Department of Environmental Services Master Services Agreement</b> Seminole County, FL</p>

## H. ADDITIONAL INFORMATION

### Subcontracting

We have partnered with local firms and small businesses that are invested in our community. We selected each one because of their direct, relevant experience either with the City or other similar utilities, their specialized services, and their successful past working history with AECOM. These firms augment our ability to rapidly and effectively respond to the City's needs. Our team includes:



**Ardaman & Associates, Inc.** was founded in 1959 by Dr. M.E. Ardaman, and the Company has

continually provided engineering services in the ensuing years. The Company originated in Orlando but expanded over the years to meet the needs of their clients. Their corporate headquarters remains in Orlando, and they have 13 offices throughout Florida and Louisiana.

In 2002, the Company merged with Tetra Tech Inc., national infrastructure, and environmental engineering Company, and is a wholly owned subsidiary of that firm. Ardaman maintains the level of integrity and technical excellence that has become synonymous with the company's name. Ardaman employs a staff of nearly 400 professional engineers, scientists, technicians, drilling personnel, technical assistants, and support staff.

Ardaman will support the project design team by providing geotechnical services including soil borings, permeability tests and pavement cores in preparation of project-specific geotechnical analyses and recommendations. Soil borings will be conducted along new pipeline alignments and within proposed utility buildings/structures to evaluate subsurface conditions relative to the proposed improvements. Ardaman engineers will evaluate the field data collected, perform laboratory testing as needed, and analyze the results of the soil borings in order to provide consulting services for these geotechnical aspects of the project.



**NorthStar Geomatics, Inc.** is a professional consulting firm offering surveying and mapping,

geographic information systems (GIS), and infrastructure inventory services to government and private sector clients. Surveying services for utilities and engineering firms is one their specialties. The firm regularly performs topographic, boundary, easement, construction, and as-built surveying services for public utilities.

NorthStar Geomatics offers highly experienced, quality-oriented field staff with the latest technology in

surveying equipment to support our surveying and mapping projects. NorthStar currently operates field crews utilizing digital levels, Trimble robotic total stations, and Trimble GPS/GNSS receivers. Their field staff is also highly experienced in GPS /GNSS mapping of water, wastewater, and stormwater features. In the office, NorthStar utilizes Autodesk Civil 3D 2022 to produce surveying products quickly and accurately.



**CONSOR Engineers, LLC.** With more than 235 CEI staff throughout Florida, CONSOR is well-positioned to provide all CEI needs to the local, state, and federal clients with ample

backup to ensure they can staff projects in case of an emergency. CONSOR employs 24 CEI staff on the Treasure Coast, (Martin, St. Lucie, and Indian River counties), giving them more local resources than any other CEI provider.

CONSOR has delivered more than seven years of successful construction projects in the City of Port St. Lucie. Prior to CONSOR, Etienne Bourgeois served as the senior project engineer and EOR respectively for the Becker Road Widening project. The Becker Road project also included extensive water and wastewater construction elements. Using Etienne's design and construction background, we can provide a constructability review from an engineer who also understands the design issues and constraints.



**The Berryhill Group, LLC,**

offers over 40 years of experience in the fields of engineering, capital funding acquisition, and capital funding management. They have responsibly managed about \$500M in capital improvement funds and Don Berryhill, managed about \$3.5B in SRF and grant funds during his tenure as Bureau Chief with the Florida Department of Environmental Protection (FDEP).

As Bureau Chief with the FDEP, Don managed the development of State Revolving Fund and hundreds of LP grants. Through his management work he gained knowledge of the many administrative requirements posed by state and federal funding agencies and can provide the guidance needed for compliance with these requirements.

The firm will research and identify available funding for the City's projects, guide through the funding process, answer questions, and work with members of the team with a goal of the City's project being a complete success. The Berryhill Group will find solutions to your funding issues, provide quality services, and be fiscally responsible to their clients.

## I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

August 16, 2021

33. NAME AND TITLE

Karen Brandon, Associate Vice President/Authorized Signatory

Form SF330

# PART II

**ARCHITECT – ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (If any)

**PART II - GENERAL QUALIFICATIONS**

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME AECOM Technical Services, Inc.			3. YR ESTABLISHED 1970	4. UNIQUE ENTITY IDENTIFIER 003184462 (ATS HQ DUNS)
2b. STREET 2090 Palm Beach Lakes Boulevard, Suite 600			5. OWNERSHIP	
2c. CITY West Palm Beach	2d. STATE FL	2e. ZIP CODE 33409	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Karen Brandon, PE, Principal Client Service Manager			b. SMALL BUSINESS STATUS Large	
6b. TELEPHONE NUMBER 561.684.3375		6c. E-MAIL ADDRESS karen.brandon@aecom.com		7. NAME OF FIRM (If block 2a is a branch office) AECOM Technical Services, Inc.
8a. FORMER FIRM NAME(S) (If any) No firm name change during the last six years			8b YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	2,699	2	A05/A06	Airports; Terminals and Hangars; Lighting; Fueling	10
08	CADD Technician	1,949	3	C15	Construction Management	10
12	Civil Engineer	6,535	13	C18	Cost Estimating; Cost Eng. & Analysis	8
15	Construction Inspector	1,274	8	D02	Dams (Earth; Rock); Dikes; Levees	10
16	Construction Manager	739	1	D04	Design-Build – Preparation of RFPs	9
19	Ecologist	344	1	E02	Educational Facilities; Classrooms	10
21	Electrical Engineer	1,011	2	E07	Energy Conservation; New Energy Sources	9
23	Environmental Engineer	1,166	1	E09	Env. Impact Studies, Assessments or Statements	10
27	Foundation/Geotechnical Engineer	631	4	E12	Environmental Remediation	10
29	GIS Specialist	363	1	G01	Garages; Vehicle Maint. Facilities; Parking Decks	7
30	Geologist	891	1	G04	GIS: Development, Analysis, & Data Conversion	8
35	Industrial Engineer	28	1	H01	Harbors; Jetties; Piers; Ship Terminal Facilities	7
36	Industrial Hygienist	20	1	H07	Highways; Streets; Airfield Paving; Parking Lots	10
47	Planner: Urban/Regional	964	1	H09	Hospital; Medical Facilities	9
48	Project Manager [subset of other disciplines]	[8,450]	[19]	M05	Military Design Standards	7
52	Sanitary Engineer	188	1	O01	Office Buildings; Industrial Parks	9
53	Scheduler	105	1	P05/P06	Planning (Community, etc.; Site, Installation & Project)	9
58	Technician/Analyst	4,250	12	P12	Power Generator; Transmission	10
62	Water Resources Engineer	456	2	R06	Rehabilitation (Buildings; Structures; Facilities)	8
				S04	Sewage Collection, Treatment and Disposal	10
				S05	Soils & Geologic Studies; Foundations	8
				S09	Structural Design; Special Structures	8
				S10	Surveying; Platting; Mapping; Flood Plain Studies	8
				S13	Storm Water Handling & Facilities	9
				T03	Traffic & Transportation Engineering	10
				W02/W03	Water Resources; Water Supply Treatment/Distribution	10
	Other technical staff	25,144	8			
<b>Total (all AECOM entities)</b>		<b>48,757</b>	<b>64</b>			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	10	1. Less than \$100,000	2. \$100,000 to less than \$250,000	3. \$250,000 to less than \$500,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	4. \$500,000 to less than \$1 million	5. \$1 million to less than \$2 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
c. Total Work	10			9. \$25 million to less than \$50 million	10. \$50 million or greater

**12. AUTHORIZED REPRESENTATIVE**  
The foregoing is a statement of facts.

a. SIGNATURE  b. DATE  
01 January 2021

c. NAME AND TITLE  
Mark Handley, PE, Senior Vice President, National Governments

**ARCHITECT – ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (If any)

**PART II - GENERAL QUALIFICATIONS**

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME AECOM Technical Services, Inc.			3. YR ESTABLISHED 1970	4. UNIQUE ENTITY IDENTIFIER 003184462 (ATS HQ DUNS)
2b. STREET 110 East Broward Boulevard, Suite 700			5. OWNERSHIP	
2c. CITY Fort Lauderdale			2d. STATE FL	2e. ZIP CODE 33301
6a. POINT OF CONTACT NAME AND TITLE Dan Levy, PG, Vice President Business Development			a. TYPE Corporation	
6b. TELEPHONE NUMBER 561.862.1117			6c. E-MAIL ADDRESS dan.levy@aecom.com	
8a. FORMER FIRM NAME(S) (If any) No firm name change during the last six years			8b YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	2,699	1	A05/A06	Airports; Terminals and Hangars; Lighting; Fueling	10
06	Architect	1,104	4	C15	Construction Management	10
07	Biologist	213	3	C18	Cost Estimating; Cost Eng. & Analysis	8
08	CADD Technician	1,949	1	D02	Dams (Earth; Rock); Dikes; Levees	10
10	Chemical Engineer	194	1	D04	Design-Build – Preparation of RFPs	9
12	Civil Engineer	6,535	14	E02	Educational Facilities; Classrooms	10
15	Construction Inspector	1,274	1	E07	Energy Conservation; New Energy Sources	9
21	Electrical Engineer	1,011	1	E09	Env. Impact Studies, Assessments or Statements	10
23	Environmental Engineer	1,166	5	E12	Environmental Remediation	10
24	Environmental Scientist	1,528	3	G01	Garages; Vehicle Maint. Facilities; Parking Decks	7
29	GIS Specialist	363	2	G04	GIS: Development, Analysis, & Data Conversion	8
30	Geologist	891	3	H01	Harbors; Jetties; Piers; Ship Terminal Facilities	7
36	Industrial Hygienist	20	2	H07	Highways; Streets; Airfield Paving; Parking Lots	10
42	Mechanical Engineer	1,114	2	H09	Hospital; Medical Facilities	9
48	Project Manager [subset of other disciplines]	[8,450]	[20]	M05	Military Design Standards	7
57	Structural Engineer	1,523	3	O01	Office Buildings; Industrial Parks	9
58	Technician/Analyst	4,250	3	P05/P06	Planning (Community, etc.; Site, Installation & Project)	9
60	Transportation Engineer	1,486	10	P12	Power Generator; Transmission	10
				R06	Rehabilitation (Buildings; Structures; Facilities)	8
				S04	Sewage Collection, Treatment and Disposal	10
				S05	Soils & Geologic Studies; Foundations	8
	Other technical staff	21,437	7	S09	Structural Design; Special Structures	8
				S10	Surveying; Platting; Mapping; Flood Plain Studies	8
				S13	Storm Water Handling & Facilities	9
	<b>Total (all AECOM entities)</b>	<b>48,757</b>	<b>66</b>	T03	Traffic & Transportation Engineering	10
				W02/W03	Water Resources; Water Supply Treatment/Distribution	10

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	10	1. Less than \$100,000	2. \$100,000 to less than \$250,000	3. \$250,000 to less than \$500,000	4. \$500,000 to less than \$1 million
b. Non-Federal Work	10	5. \$1 million to less than \$2 million	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
c. Total Work	10	9. \$25 million to less than \$50 million	10. \$50 million or greater		

**12. AUTHORIZED REPRESENTATIVE**  
The foregoing is a statement of facts.

a. SIGNATURE  b. DATE  
01 January 2021

c. NAME AND TITLE  
Mark Handley, PE, Senior Vice President, National Governments



**ARCHITECT – ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (If any)

**PART II - GENERAL QUALIFICATIONS**

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME AECOM Technical Services, Inc.			3. YR ESTABLISHED 1970	4. UNIQUE ENTITY IDENTIFIER 003184462 (ATS HQ DUNS)
2b. STREET 2 Alhambra Plaza, Suite 900			5. OWNERSHIP	
2c. CITY Coral Gables	2d. STATE FL	2e. ZIP CODE 33134	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Pete Hernandez, Business Development Senior Manager			b. SMALL BUSINESS STATUS Large	
6b. TELEPHONE NUMBER 305.444.4691		6c. E-MAIL ADDRESS pedro.hernandez@aecom.com		7. NAME OF FIRM (If block 2a is a branch office) AECOM Technical Services, Inc.
8a. FORMER FIRM NAME(S) (If any) No firm name change during the last six years			8b YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
06	Architect	1,104	8	A05/A06	Airports; Terminals and Hangars; Lighting; Fueling	10
07	Biologist	213	3	C15	Construction Management	10
08	CADD Technician	1,949	8	C18	Cost Estimating; Cost Eng. & Analysis	8
12	Civil Engineer	6,535	10	D02	Dams (Earth; Rock); Dikes; Levees	10
15	Construction Inspector	1,274	2	D04	Design-Build – Preparation of RFPs	9
16	Construction Manager	739	3	E02	Educational Facilities; Classrooms	10
19	Ecologist	344	3	E07	Energy Conservation; New Energy Sources	9
21	Electrical Engineer	1,011	2	E09	Env. Impact Studies, Assessments or Statements	10
23	Environmental Engineer	1,166	3	E12	Environmental Remediation	10
24	Environmental Scientist	1,528	4	G01	Garages; Vehicle Maint. Facilities; Parking Decks	7
30	Geologist	891	1	G04	GIS: Development, Analysis, & Data Conversion	8
37	Interior Designer	82	1	H01	Harbors; Jetties; Piers; Ship Terminal Facilities	7
39	Landscape Architect	234	1	H07	Highways; Streets; Airfield Paving; Parking Lots	10
42	Mechanical Engineer	1,114	3	H09	Hospital; Medical Facilities	9
47	Planner: Urban/Regional	964	2	M05	Military Design Standards	7
48	Project Manager (subset of other disciplines)	[8,450]	[22]	O01	Office Buildings; Industrial Parks	9
57	Structural Engineer	1,523	6	P05/P06	Planning (Community, etc.; Site, Installation & Project)	9
58	Technician/Analyst	4,250	5	P12	Power Generator; Transmission	10
60	Transportation Engineer	1,486	7	R06	Rehabilitation (Buildings; Structures; Facilities)	8
62	Water Resources Engineer	456	1	S04	Sewage Collection, Treatment and Disposal	10
	Other technical staff	21,894	19	S05	Soils & Geologic Studies; Foundations	8
				S09	Structural Design; Special Structures	8
				S10	Surveying; Platting; Mapping; Flood Plain Studies	8
				S13	Storm Water Handling & Facilities	9
				T03	Traffic & Transportation Engineering	10
				W02/W03	Water Resources; Water Supply Treatment/Distribution	10
<b>Total (all AECOM entities)</b>		<b>48,757</b>	<b>92</b>			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	10	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million	10. \$50 million or greater
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

**12. AUTHORIZED REPRESENTATIVE**  
The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 01 January 2021
c. NAME AND TITLE Mark Handley, PE, Senior Vice President, National Governments	

**ARCHITECT – ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (If any)

**PART II - GENERAL QUALIFICATIONS**

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME AECOM Technical Services, Inc.			3. YR ESTABLISHED 1970	4. UNIQUE ENTITY IDENTIFIER 003184462 (ATS HQ DUNS)
2b. STREET 7650 West Courtney Campbell Causeway			5. OWNERSHIP	
2c. CITY Tampa	2d. STATE FL	2e. ZIP CODE 33607-1462	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Charles H. Evans, Vice President Program Management			b. SMALL BUSINESS STATUS Large	
6b. TELEPHONE NUMBER 813.636.2453		6c. E-MAIL ADDRESS charlie.evans@aecom.com		7. NAME OF FIRM (If block 2a is a branch office) AECOM Technical Services, Inc.
8a. FORMER FIRM NAME(S) (If any) No firm name change during the last six years			8b YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
06	Architect	1,104	6	A05/A06	Airports; Terminals and Hangars; Lighting; Fueling	10
08	CADD Technician	1,949	18	C15	Construction Management	10
12	Civil Engineer	6,535	60	C18	Cost Estimating; Cost Eng. & Analysis	8
15	Construction Inspector	1,274	48	D02	Dams (Earth; Rock); Dikes; Levees	10
16	Construction Manager	739	6	D04	Design-Build – Preparation of RFPs	9
18	Cost Engineer/Estimator	913	13	E02	Educational Facilities; Classrooms	10
21	Electrical Engineer	1,011	10	E07	Energy Conservation; New Energy Sources	9
23	Environmental Engineer	1,166	8	E09	Env. Impact Studies, Assessments or Statements	10
24	Environmental Scientist	1,528	4	E12	Environmental Remediation	10
25	Fire Protection Engineer	45	1	G01	Garages; Vehicle Maint. Facilities; Parking Decks	7
27	Foundation/Geotechnical Engineer	631	3	G04	GIS: Development, Analysis, & Data Conversion	8
30	Geologist	891	4	H01	Harbors; Jetties; Piers; Ship Terminal Facilities	7
39	Landscape Architect	234	8	H07	Highways; Streets; Airfield Paving; Parking Lots	10
42	Mechanical Engineer	1,114	9	H09	Hospital; Medical Facilities	9
47	Planner: Urban/Regional	964	17	M05	Military Design Standards	7
48	Project Manager (subset of other disciplines)	[8,450]	[88]	O01	Office Buildings; Industrial Parks	9
57	Structural Engineer	1,523	25	P05/P06	Planning (Community, etc.; Site, Installation & Project)	9
58	Technician/Analyst	4,250	20	P12	Power Generator; Transmission	10
60	Transportation Engineer	1,486	26	R06	Rehabilitation (Buildings; Structures; Facilities)	8
62	Water Resources Engineer	456	3	S04	Sewage Collection, Treatment and Disposal	10
	Other technical staff	20,944	74	S05	Soils & Geologic Studies; Foundations	8
				S09	Structural Design; Special Structures	8
				S10	Surveying; Platting; Mapping; Flood Plain Studies	8
				S13	Storm Water Handling & Facilities	9
				T03	Traffic & Transportation Engineering	10
				W02/W03	Water Resources; Water Supply Treatment/Distribution	10
<b>Total (all AECOM entities)</b>		<b>48,757</b>	<b>363</b>			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	10	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million
c. Total Work	10	3. \$250,000 to less than \$500,000	4. \$500,000 to less than \$1 million	5. \$1 million to less than \$2 million	10. \$50 million or greater

**12. AUTHORIZED REPRESENTATIVE**  
The foregoing is a statement of facts.

a. SIGNATURE  b. DATE  
01 January 2021

c. NAME AND TITLE  
Mark Handley, PE, Senior Vice President, National Governments

**ARCHITECT – ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (If any)

**PART II - GENERAL QUALIFICATIONS**

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME AECOM Technical Services, Inc.			3. YR ESTABLISHED 1970	4. UNIQUE ENTITY IDENTIFIER 003184462 (ATS HQ DUNS)
2b. STREET 4415 Metro Parkway, Suite 404			5. OWNERSHIP	
2c. CITY Fort Myers			a. TYPE Corporation	
2d. STATE FL	2e. ZIP CODE 33916		b. SMALL BUSINESS STATUS Large	
6a. POINT OF CONTACT NAME AND TITLE Ronald Cavaliere, PE, BCEE, Principal Engineer			7. NAME OF FIRM (If block 2a is a branch office) AECOM Technical Services, Inc.	
6b. TELEPHONE NUMBER 239.278.7996		6c. E-MAIL ADDRESS ronald.cavaliere@aecom.com		
8a. FORMER FIRM NAME(S) (If any) No firm name change during the last six years			8b YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
12	Civil Engineer	6,535	5	A05/A06	Airports; Terminals and Hangars; Lighting; Fueling	10
15	Construction Inspector	1,274	2	C15	Construction Management	10
23	Environmental Engineer	1,166	1	C18	Cost Estimating; Cost Eng. & Analysis	8
27	Foundation/Geotechnical Engineer	631	1	D02	Dams (Earth; Rock); Dikes; Levees	10
48	Project Manager [subset of other disciplines]	[8,450]	[3]	D04	Design-Build – Preparation of RFPs	9
				E02	Educational Facilities; Classrooms	10
				E07	Energy Conservation; New Energy Sources	9
				E09	Env. Impact Studies, Assessments or Statements	10
				E12	Environmental Remediation	10
				G01	Garages; Vehicle Maint. Facilities; Parking Decks	7
				G04	GIS: Development, Analysis, & Data Conversion	8
				H01	Harbors; Jetties; Piers; Ship Terminal Facilities	7
				H07	Highways; Streets; Airfield Paving; Parking Lots	10
				H09	Hospital; Medical Facilities	9
				M05	Military Design Standards	7
				O01	Office Buildings; Industrial Parks	9
				P05/P06	Planning (Community, etc.; Site, Installation & Project)	9
				P12	Power Generator; Transmission	10
				R06	Rehabilitation (Buildings; Structures; Facilities)	8
				S04	Sewage Collection, Treatment and Disposal	10
				S05	Soils & Geologic Studies; Foundations	8
	Other technical staff	39,151	1	S09	Structural Design; Special Structures	8
				S10	Surveying; Platting; Mapping; Flood Plain Studies	8
	<b>Total (all AECOM entities)</b>	<b>48,757</b>	<b>10</b>	S13	Storm Water Handling & Facilities	9
				T03	Traffic & Transportation Engineering	10
				W02/W03	Water Resources; Water Supply Treatment/Distribution	10

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	10	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million	10. \$50 million or greater
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

**12. AUTHORIZED REPRESENTATIVE**  
The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 01 January 2021
c. NAME AND TITLE Mark Handley, PE, Senior Vice President, National Governments	

**ARCHITECT – ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (If any)  
20210093

**PART II - GENERAL QUALIFICATIONS**

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME AECOM Technical Services, Inc.			3. YR ESTABLISHED 1970	4. UNIQUE ENTITY IDENTIFIER 003184462 (ATS HQ DUNS)
2b. STREET 150 North Orange Avenue, Suite 200			5. OWNERSHIP a. TYPE Corporation	
2c. CITY Orlando	2d. STATE FL	2e. ZIP CODE 32801	b. SMALL BUSINESS STATUS Large	
6a. POINT OF CONTACT NAME AND TITLE Randy Mejeur, LEED AP, Associate Vice President Operations Leadership			7. NAME OF FIRM (If block 2a is a branch office) AECOM Technical Services, Inc.	
6b. TELEPHONE NUMBER 407.843.6552		6c. E-MAIL ADDRESS randy.mejeur@aecom.com		
8a. FORMER FIRM NAME(S) (If any) No firm name change during the last six years			8b YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
06	Architect	1,104	2	A05/A06	Airports; Terminals and Hangars; Lighting; Fueling	10
07	Biologist	213	1	C15	Construction Management	10
08	CADD Technician	1,949	9	C18	Cost Estimating; Cost Eng. & Analysis	8
12	Civil Engineer	6,535	24	D02	Dams (Earth; Rock); Dikes; Levees	10
15	Construction Inspector	1,274	1	D04	Design-Build – Preparation of RFPs	9
16	Construction Manager	739	2	E02	Educational Facilities; Classrooms	10
18	Cost Engineer/Estimator	913	5	E07	Energy Conservation; New Energy Sources	9
19	Ecologist	344	3	E09	Env. Impact Studies, Assessments or Statements	10
21	Electrical Engineer	1,011	6	E12	Environmental Remediation	10
23	Environmental Engineer	1,166	13	G01	Garages; Vehicle Maint. Facilities; Parking Decks	7
24	Environmental Scientist	1,528	5	G04	GIS: Development, Analysis, & Data Conversion	8
30	Geologist	891	6	H01	Harbors; Jetties; Piers; Ship Terminal Facilities	7
39	Landscape Architect	234	5	H07	Highways; Streets; Airfield Paving; Parking Lots	10
42	Mechanical Engineer	1,114	2	H09	Hospital; Medical Facilities	9
47	Planner: Urban/Regional	964	3	M05	Military Design Standards	7
48	Project Manager [subset of other disciplines]	[8,450]	[43]	O01	Office Buildings; Industrial Parks	9
57	Structural Engineer	1,523	11	P05/P06	Planning (Community, etc.; Site, Installation & Project)	9
58	Technician/Analyst	4,250	19	P12	Power Generator; Transmission	10
60	Transportation Engineer	1,486	23	R06	Rehabilitation (Buildings; Structures; Facilities)	8
62	Water Resources Engineer	456	1	S04	Sewage Collection, Treatment and Disposal	10
	Other technical staff	21,063	44	S05	Soils & Geologic Studies; Foundations	8
				S09	Structural Design; Special Structures	8
				S10	Surveying; Platting; Mapping; Flood Plain Studies	8
				S13	Storm Water Handling & Facilities	9
	<b>Total (all AECOM entities)</b>	<b>48,757</b>	<b>185</b>	T03	Traffic & Transportation Engineering	10
				W02/W03	Water Resources; Water Supply Treatment/Distribution	10

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	10	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

**12. AUTHORIZED REPRESENTATIVE**  
The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 01 January 2021
c. NAME AND TITLE Mark Handley, PE, Senior Vice President, National Governments	

**ARCHITECT – ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (If any)

**PART II - GENERAL QUALIFICATIONS**

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME AECOM Technical Services, Inc.			3. YR ESTABLISHED 1970	4. UNIQUE ENTITY IDENTIFIER 003184462 (ATS HQ DUNS)
2b. STREET 3101 Wilson Boulevard, Suite 900			5. OWNERSHIP	
2c. CITY Arlington	2d. STATE VA	2e. ZIP CODE 22201	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Daniel Faust, PE, Executive Vice President Operations Leadership			b. SMALL BUSINESS STATUS Large	
6b. TELEPHONE NUMBER 703.682.4900		6c. E-MAIL ADDRESS daniel.faust@aecom.com		7. NAME OF FIRM (If block 2a is a branch office) AECOM Technical Services, Inc.
8a. FORMER FIRM NAME(S) (If any) No firm name change during the last six years			8b YR. ESTABLISHED	8c. UNIQUE ENTITY IDENTIFIER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
06	Architect	1,104	44	A05/A06	Airports; Terminals and Hangars; Lighting; Fueling	10
08	CADD Technician	1,949	15	C15	Construction Management	10
12	Civil Engineer	6,535	62	C18	Cost Estimating; Cost Eng. & Analysis	8
16	Construction Manager	739	25	D02	Dams (Earth; Rock); Dikes; Levees	10
18	Cost Engineer/Estimator	913	7	D04	Design-Build – Preparation of RFPs	9
20	Economist	156	9	E02	Educational Facilities; Classrooms	10
21	Electrical Engineer	1,011	29	E07	Energy Conservation; New Energy Sources	9
23	Environmental Engineer	1,166	7	E09	Env. Impact Studies, Assessments or Statements	10
24	Environmental Scientist	1,528	19	E12	Environmental Remediation	10
25	Fire Protection Engineer	45	8	G01	Garages; Vehicle Maint. Facilities; Parking Decks	7
29	GIS Specialist	363	13	G04	GIS: Development, Analysis, & Data Conversion	8
30	Geologist	891	16	H01	Harbors; Jetties; Piers; Ship Terminal Facilities	7
37	Interior Designer	82	4	H07	Highways; Streets; Airfield Paving; Parking Lots	10
39	Landscape Architect	234	9	H09	Hospital; Medical Facilities	9
42	Mechanical Engineer	1,114	32	M05	Military Design Standards	7
47	Planner: Urban/Regional	964	34	O01	Office Buildings; Industrial Parks	9
48	Project Manager [subset of other disciplines]	[8,450]	[113]	P05/P06	Planning (Community, etc.; Site, Installation & Project)	9
57	Structural Engineer	1,523	13	P12	Power Generator; Transmission	10
58	Technician/Analyst	4,250	24	R06	Rehabilitation (Buildings; Structures; Facilities)	8
60	Transportation Engineer	1,486	10	S04	Sewage Collection, Treatment and Disposal	10
	Other technical staff	22,704	410	S05	Soils & Geologic Studies; Foundations	8
				S09	Structural Design; Special Structures	8
				S10	Surveying; Platting; Mapping; Flood Plain Studies	8
				S13	Storm Water Handling & Facilities	9
	<b>Total (all AECOM entities)</b>	<b>48,757</b>	<b>790</b>	T03	Traffic & Transportation Engineering	10
				W02/W03	Water Resources; Water Supply Treatment/Distribution	10

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	10	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

**12. AUTHORIZED REPRESENTATIVE**  
The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 01 January 2021
c. NAME AND TITLE Mark Handley, PE, Senior Vice President, National Governments	

**ARCHITECT- ENGINEER QUALIFICATIONS**

 1. SOLICITATION NUMBER (If any)  
 20210093

**PART II - GENERAL QUALIFICATIONS**


(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME <b>Ardaman &amp; Associates, Inc.</b>				3. YEAR ESTABLISHED <b>1987</b>	4. UNIQUE ENTITY IDENTIFIER <b>844891465</b>
2b. STREET <b>460 NW Concourse Place – Unit #1</b>				5. OWNERSHIP	
2c. CITY <b>Port St. Lucie</b>				2d. STATE <b>FL</b>	2e. ZIP CODE <b>34986</b>
6a. POINT OF CONTACT NAME AND TITLE <b>Daniel J. Zrallack, P.E., Asst. Vice President / Branch Manager</b>				a. TYPE <b>Corporation</b>	
6b. TELEPHONE NUMBER <b>(772) 878-0072</b>		6c. E-MAIL ADDRESS <b>dzrallack@ardaman.com</b>		b. SMALL BUSINESS STATUS	
8a. FORMER FIRM NAME(S) (If any)				7. NAME OF FIRM (If Block 2a is a Branch Office) <b>Ardaman &amp; Associates, Inc. 8008 S. Orange Avenue Orlando, FL 32809</b>	
8b. YEAR ESTABLISHED				8c. UNIQUE ENTITY IDENTIFIER	

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	ADMINISTRATIVE	56	2	D02	Dams (Earth; Rock); Dikes; Levees	1
08	CADD TECHNICIAN	17		E02	Educational Facilities; Classrooms	1
14	COMPUTER PROGRAMMER	2		E09	Environmental Impact Studies, Assessments or Statements	2
15	CONSTRUCTION INSPECTOR	54		H03	Hazardous, Toxic, Radioactive Waste Remediation	1
23	ENVIRONMENTAL ENGINEER	4		H07	Highways; Streets; Airfield Paving; Parking Lots	2
24	ENVIRONMENTAL SCIENTIST	5		I03	Industrial Waste Treatment	1
27	FOUNDATION / GEOTECHNICAL ENGINEER	95	2	M06	Mining & Mineralogy	1
29	GIS SPECIALIST	1		S04	Sewage Collection, Treatment and Disposal	1
30	GEOLOGIST	10		S05	Soils & Geologic Studies; Foundations	2
40	MATERIALS ENGINEER	3		S07	Solid Wastes; Incineration; Landfill	1
58	TECHNICIAN / ANALYST	92	4	T02	Testing & Inspection Services	2
62	WATER RESOURCES ENGINEER	1		W02	Water Resources; Hydrology; Ground Water	1
	DRILLERS	40			Instrumentation	1
	Other Employees					
<b>Total</b>		<b>380</b>	<b>8</b>			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	2	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	2	3. \$250,000 to less than \$500,000	9. \$25 million to less than \$50 million	10. \$50 million or greater	
c. Total Work	4	4. \$500,000 to less than \$1 million	5. \$1 million to less than \$2 million		

**12. AUTHORIZED REPRESENTATIVE**  
 The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE <b>July 1, 2021</b>
c. NAME AND TITLE <b>Daniel J. Zrallack, P.E., Asst. Vice President / Branch Manager</b>	





# ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

eRFP: 20210093

## PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (or Branch Office) NAME <b>CONSOR Engineers, LLC</b>			3. YEAR ESTABLISHED 2018	4. UNIQUE ENTITY IDENTIFIER 83-752-8298
2b. STREET 3547 and 3459 SW Corporate Parkway			5. OWNERSHIP a. TYPE Limited Liability Company b. SMALL BUSINESS STATUS N/A	
2c. CITY Palm City	2d. STATE FL	2e. ZIP CODE 33410		
6a. POINT OF CONTACT NAME AND TITLE <b>Randy Scott, PE - Vice President, Florida Construction Services</b>				
6b. TELEPHONE NUMBER 772.475.9680		6c. E-MAIL ADDRESS <b>rscott@consoreng.com</b>		

8a. FORMER FIRM NAME(S) (if any) Target Engineering Group		8b. YEAR ESTABLISHED 1999	8c. UNIQUE ENTITY IDENTIFIER N/A
--	--	------------------------------	-------------------------------------

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	228	1	B02	Bridges	8
08	CADD Technician	43		C15	Construction Management	10
12	Civil Engineer	93		C16	Construction Survey	7
15	Construction Inspector	171	1	H01	Harbors; Jetties; Piers, Ship Terminal Fac.	6
16	Construction Manager	40		H07	Hwys.; Streets; Airfield Paving; Parking Lots	9
18	Cost Engineer/Estimator	1		I06	Irrigation; Drainage	4
24	Environmental Scientist	3		L02	Land Surveying	5
32	Hydraulic Engineer	2		P05	Planning (Community; Regional; Areawide and State)	2
38	Land Surveyor	7		R03	Railroad; Rapid Transit	3
47	Planner: Urban/Regional	5		S04	Sewage Collection, Treatment & Disposal	3
53	Scheduler	1		S09	Structural Design, Special Structures	5
57	Structural Engineer	36		T02	Testing and Inspection Services	6
58	Technician/Analyst	5		T03	Traffic & Transportation Engineering	7
60	Transportation Engineer	29		W03	Water Supply; Treatment and Distribution; Underwater Diving/Welding	2
62	Water Resources Engineer	12		Z01	Zoning; Land Use Studies	2
	Designer (Highway, Structural, Electrical, Traffic, Graphics)	20				
	Inspection Technician	97				
	EIT/Engineer Intern/Graduate Engineer	84				
	Scientist	3				
	Survey Technician	4				
	Underwater Diver	18				
	Underwater Welder	2				
	Other	3				
<b>Total</b>		907	2			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	5	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	9. \$25 million to less than \$50 million	10. \$50 million or greater	
c. Total Work	10	3. \$250,000 to less than \$500,000			
		4. \$500,000 to less than \$1 million			
		5. \$1 million to less than \$2 million			

## 12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE January 1, 2021
c. NAME AND TITLE Kerri A. Ingham, Chief Marketing Officer	



# ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)  
eRFP #20210093


## PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME <b>The Berryhill Group, LLC</b>			3. YEAR ESTABLISHED 9.5	4. DUNS NUMBER <b>080319126</b>
2b. STREET 7120 Early Gold Lane			5. OWNERSHIP	
2c. CITY Riverview	2d. STATE FL	2e. ZIP CODE 33578	a. TYPE LLC	
6a. POINT OF CONTACT NAME AND TITLE Dianne J. Berryhill, President			b. SMALL BUSINESS STATUS	
6b. TELEPHONE NUMBER 850-893-0919		6c. E-MAIL ADDRESS dianne@theberryhillgroup.com		
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Executive/Owner	1			Capital Funding Administration	2
23	Funding Administration	1		P05	Facilities Planning Advisory Service	1

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	0	1. Less than \$100,000	6. \$2 million to less than \$5 million	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million
b. Non-Federal Work	2	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million	8. \$10 million to less than \$25 million	9. \$25 million to less than \$50 million
c. Total Work	2	3. \$250,000 to less than \$500,000	9. \$25 million to less than \$50 million	10. \$50 million or greater	
		4. \$500,000 to less than \$1 million			
		5. \$1 million to less than \$2 million			

12. AUTHORIZED REPRESENTATIVE	
The foregoing is a statement of facts.	
a. SIGNATURE 	B. DATE 7/16/2021
c. NAME AND TITLE Dianne J. Berryhill, President	

## About AECOM

AECOM is the world's trusted infrastructure consulting firm, delivering professional services throughout the project lifecycle — from planning, design and engineering to program and construction management. On projects spanning transportation, buildings, water, new energy and the environment, our public- and private-sector clients trust us to solve their most complex challenges. Our teams are driven by a common purpose to deliver a better world through our unrivaled technical expertise and innovation, a culture of equity, diversity and inclusion, and a commitment to environmental, social and governance priorities. AECOM is a *Fortune 500* firm and its Professional Services business had revenue of \$13.2 billion in fiscal year 2020. See how we are delivering sustainable legacies for generations to come at [aecom.com](http://aecom.com) and [@AECOM](https://twitter.com/AECOM).



**File #4 Other Mandatory Documents**

# Table of Contents

<b>01. Form W-9</b>	<b>1</b>
<b>02. Certificate of Insurance</b>	<b>2</b>
<b>03. Licenses</b>	<b>4</b>
<b>04. Mandatory Scored Questions Attachments</b>	
4.1 Proposer's Location	17
4.2 Executive Summary	18
4.3 General Scope of Services	22
4.4 Program Management Services	31
4.5 Planning Support	39
4.6 Design Support	43
4.7 Construction Engineering and Inspection Services	45
4.8 Grant & Loan Funding Support	46
4.9 Miscellaneous	48
4.10 Ability to Meet Schedule and Budget Requirements	51
<b>05. Truth-In-Negotiation Certificate</b>	<b>53</b>
<b>06. E-Verify Form</b>	<b>54</b>
<b>07. Drug Free Workplace Form</b>	<b>55</b>
<b>08. Port St. Lucie Location Form</b>	<b>56</b>
<b>09. Cone of Silence Form</b>	<b>57</b>
<b>10. Consultant's Code of Ethics</b>	<b>58</b>
<b>11. Non-Collusion Affidavit</b>	<b>60</b>
<b>12. Consultant General Information Worksheet</b>	<b>62</b>
<b>13. Judgements from Lawsuits in the Last Five (5) Years</b>	<b>67</b>
<b>14. Exceptions to Contract</b>	<b>70</b>

Form W-9

01

Form **W-9**  
(Rev. October 2018)  
Department of the Treasury  
Internal Revenue Service

# Request for Taxpayer Identification Number and Certification

Give Form to the requester. Do not send to the IRS.

Go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9) for instructions and the latest information.

**1** Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.  
**AECOM TECHNICAL SERVICES, INC.**

**2** Business name/disregarded entity name, if different from above

**3** Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

Individual/sole proprietor or single-member LLC

C Corporation

S Corporation

Partnership

Trust/estate

Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ \_\_\_\_\_

**Note:** Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

Other (see instructions) ▶ \_\_\_\_\_

**4** Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) 5

Exemption from FATCA reporting code (if any) D

*(Applies to accounts maintained outside the U.S.)*

**5** Address (number, street, and apt. or suite no.) See instructions.  
**1178 PAYSHERE CIRCLE**

**6** City, state, and ZIP code  
**CHICAGO, IL 60674**

**7** List account number(s) here (optional)

Requester's name and address (optional)

## Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

**Note:** If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

**Social security number**

			-						
--	--	--	---	--	--	--	--	--	--

**or**

**Employer identification number**

9	5	-	2	6	6	1	9	2	2
---	---	---	---	---	---	---	---	---	---

## Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

**Sign Here** Signature of U.S. person ▶ *Morgan 2 Claudio* Date ▶ 02/5/2021

## General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to [www.irs.gov/FormW9](http://www.irs.gov/FormW9).

## Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

*If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, later.*

**Certificate of Insurance**

**02**



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
03/30/2021

**THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.**

**IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).**

<b>PRODUCER</b> Marsh Risk & Insurance Services CA License #0437153 633 W. Fifth Street, Suite 1200 Los Angeles, CA 90071 Attn: LosAngeles.CertRequest@Marsh.Com CN101348564-STND-GAUE-21-22	<b>CONTACT NAME:</b> James Vogel <b>PHONE (A/C No, Ext):</b> 213-346-5098 <b>FAX (A/C, No):</b> 212-948-0533 <b>E-MAIL ADDRESS:</b> James.l.vogel@marsh.com <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="width: 80%;">INSURER(S) AFFORDING COVERAGE</th> <th style="width: 20%;">NAIC #</th> </tr> <tr> <td>INSURER A : ACE American Insurance Company</td> <td>22667</td> </tr> <tr> <td>INSURER B : ACE Property &amp; Casualty Insurance Co.</td> <td>20699</td> </tr> <tr> <td>INSURER C : Illinois Union Insurance Co</td> <td>27960</td> </tr> <tr> <td>INSURER D : SEE ACORD 101</td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : ACE American Insurance Company	22667	INSURER B : ACE Property & Casualty Insurance Co.	20699	INSURER C : Illinois Union Insurance Co	27960	INSURER D : SEE ACORD 101		INSURER E :		INSURER F :	
INSURER(S) AFFORDING COVERAGE	NAIC #														
INSURER A : ACE American Insurance Company	22667														
INSURER B : ACE Property & Casualty Insurance Co.	20699														
INSURER C : Illinois Union Insurance Co	27960														
INSURER D : SEE ACORD 101															
INSURER E :															
INSURER F :															
<b>INSURED</b> AECOM 1999 Avenue of the Stars, Suite 2600 Los Angeles, CA 90067															

**COVERAGES**                      **CERTIFICATE NUMBER:** LOS-002383377-33                      **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS																
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b>  <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC  OTHER:			HDO G72486304	04/01/2021	04/01/2022	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>EACH OCCURRENCE</td><td style="text-align: right;">\$ 5,000,000</td></tr> <tr><td>DAMAGE TO RENTED PREMISES (Ea occurrence)</td><td style="text-align: right;">\$ 5,000,000</td></tr> <tr><td>MED EXP (Any one person)</td><td style="text-align: right;">\$ 5,000</td></tr> <tr><td>PERSONAL &amp; ADV INJURY</td><td style="text-align: right;">\$ 5,000,000</td></tr> <tr><td>GENERAL AGGREGATE</td><td style="text-align: right;">\$ 5,000,000</td></tr> <tr><td>PRODUCTS - COMP/OP AGG</td><td style="text-align: right;">\$ 5,000,000</td></tr> <tr><td></td><td style="text-align: right;">\$</td></tr> </table>	EACH OCCURRENCE	\$ 5,000,000	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 5,000,000	MED EXP (Any one person)	\$ 5,000	PERSONAL & ADV INJURY	\$ 5,000,000	GENERAL AGGREGATE	\$ 5,000,000	PRODUCTS - COMP/OP AGG	\$ 5,000,000		\$		
EACH OCCURRENCE	\$ 5,000,000																						
DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 5,000,000																						
MED EXP (Any one person)	\$ 5,000																						
PERSONAL & ADV INJURY	\$ 5,000,000																						
GENERAL AGGREGATE	\$ 5,000,000																						
PRODUCTS - COMP/OP AGG	\$ 5,000,000																						
	\$																						
A	<input checked="" type="checkbox"/> <b>AUTOMOBILE LIABILITY</b>  <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			ISA H25549211	04/01/2021	04/01/2022	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>COMBINED SINGLE LIMIT (Ea accident)</td><td style="text-align: right;">\$ 5,000,000</td></tr> <tr><td>BODILY INJURY (Per person)</td><td style="text-align: right;">\$</td></tr> <tr><td>BODILY INJURY (Per accident)</td><td style="text-align: right;">\$</td></tr> <tr><td>PROPERTY DAMAGE (Per accident)</td><td style="text-align: right;">\$</td></tr> <tr><td></td><td style="text-align: right;">\$</td></tr> </table>	COMBINED SINGLE LIMIT (Ea accident)	\$ 5,000,000	BODILY INJURY (Per person)	\$	BODILY INJURY (Per accident)	\$	PROPERTY DAMAGE (Per accident)	\$		\$						
COMBINED SINGLE LIMIT (Ea accident)	\$ 5,000,000																						
BODILY INJURY (Per person)	\$																						
BODILY INJURY (Per accident)	\$																						
PROPERTY DAMAGE (Per accident)	\$																						
	\$																						
B	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE  DED    RETENTION \$			XOO G46880043 004	04/01/2021	04/01/2022	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>EACH OCCURRENCE</td><td style="text-align: right;">\$ 5,000,000</td></tr> <tr><td>AGGREGATE</td><td style="text-align: right;">\$ 5,000,000</td></tr> <tr><td></td><td style="text-align: right;">\$</td></tr> </table>	EACH OCCURRENCE	\$ 5,000,000	AGGREGATE	\$ 5,000,000		\$										
EACH OCCURRENCE	\$ 5,000,000																						
AGGREGATE	\$ 5,000,000																						
	\$																						
D	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below <span style="margin-left: 20px;">Y / N</span> <span style="margin-left: 20px;">N / A</span>			SEE ACORD 101	04/01/2021	04/01/2022	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td><input checked="" type="checkbox"/> PER STATUTE</td> <td><input type="checkbox"/> OTHER</td> <td style="width: 20px;"></td> <td></td> </tr> <tr> <td colspan="3">E.L. EACH ACCIDENT</td> <td style="text-align: right;">\$ 5,000,000</td> </tr> <tr> <td colspan="3">E.L. DISEASE - EA EMPLOYEE</td> <td style="text-align: right;">\$ 5,000,000</td> </tr> <tr> <td colspan="3">E.L. DISEASE - POLICY LIMIT</td> <td style="text-align: right;">\$ 5,000,000</td> </tr> </table>	<input checked="" type="checkbox"/> PER STATUTE	<input type="checkbox"/> OTHER			E.L. EACH ACCIDENT			\$ 5,000,000	E.L. DISEASE - EA EMPLOYEE			\$ 5,000,000	E.L. DISEASE - POLICY LIMIT			\$ 5,000,000
<input checked="" type="checkbox"/> PER STATUTE	<input type="checkbox"/> OTHER																						
E.L. EACH ACCIDENT			\$ 5,000,000																				
E.L. DISEASE - EA EMPLOYEE			\$ 5,000,000																				
E.L. DISEASE - POLICY LIMIT			\$ 5,000,000																				
C	<b>ARCHITECTS &amp; ENG.</b>  <b>PROFESSIONAL LIAB.</b>			EON G21654693 005 "CLAIMS MADE"	04/01/2021	04/01/2022	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Per Claim/Agg</td><td style="text-align: right;">\$ 5,000,000</td></tr> <tr><td>Defense Included</td><td></td></tr> </table>	Per Claim/Agg	\$ 5,000,000	Defense Included													
Per Claim/Agg	\$ 5,000,000																						
Defense Included																							

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)**  
 EVIDENCE OF COVERAGE  
  
 Contractors Pollution Liability, Carrier: AIG Specialty Insurance Company, NAIC #26883, Policy #: CPL 1814870, Policy Term: 04/01/2021 - 04/01/2022, "Claims Made," Defense Included, Limit: \$5,000,000 Per Loss/Aggregate

<b>CERTIFICATE HOLDER</b>  AECOM 1999 Avenue of the Stars, Ste. 2600 Los Angeles, CA 90067	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE of Marsh Risk & Insurance Services James L. Vogel
--	--

AGENCY CUSTOMER ID: CN101348564

LOC #: Los Angeles



**ADDITIONAL REMARKS SCHEDULE**

Page 2 of 2

<b>AGENCY</b> Marsh Risk & Insurance Services		<b>NAMED INSURED</b> AECOM 1999 Avenue of the Stars, Suite 2600 Los Angeles, CA 90067	
<b>POLICY NUMBER</b>		<b>EFFECTIVE DATE:</b>	
<b>CARRIER</b>	<b>NAIC CODE</b>		

**ADDITIONAL REMARKS**

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,**  
**FORM NUMBER:** 25 **FORM TITLE:** Certificate of Liability Insurance

Workers Compensation/Employer Liability cont.

Policy Number	Insurer	States Covered
WLR C67806025	Indemnity Insurance Company of North America - NAIC # 43575	AOS
WLR C67805987	ACE American Insurance Company - NAIC # 22667	CA, MA
SCF C67806104	ACE American Insurance Company - NAIC # 22667	WI Retro



Licenses

03

# *State of Florida*

## *Department of State*

I certify from the records of this office that AECOM TECHNICAL SERVICES, INC. is a California corporation authorized to transact business in the State of Florida, qualified on August 21, 1995.

The document number of this corporation is F95000004014.

I further certify that said corporation has paid all fees due this office through December 31, 2021, that its most recent annual report/uniform business report was filed on January 19, 2021, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Nineteenth day of January,  
2021*



*Randy Bee*  
**Secretary of State**

Tracking Number: 8840889130CU

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

**Licensee**

Name:	<b>AECOM TECHNICAL SERVICES, INC.</b>	License Number:	<b>8115</b>
Rank:	<b>Registry</b>	License Expiration Date:	
Primary Status:	<b>Current</b>	Original License Date:	<b>01/22/1999</b>

**Related License Information**

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
46656	Current, Active	CORNISH, KEVIN MICHAEL	Registry	01/29/2016	Professional Engineer	02/28/2023
41908	Current, Active	GARCIA, CARLOS	Registry		Professional Engineer	02/28/2023
57637	Current, Active	WITMEIER, BENJAMIN JOSEPH	Registry		Professional Engineer	02/28/2023

**Development Services**  
 401 Clematis Street, 1st Floor, West Palm Beach, Florida 33401  
 Office Hours: Monday - Friday 8:00 AM - 5:00 PM  
 Phone: (561) 805-6700

**IAS** ACCREDITED

**eGovPlus (One-Stop-Shop)**

[Home](#) [Records and Reports](#) [Business Tax](#) [My Account](#) [Code Enforcement](#) [Contact Us](#) [Log In/Out](#) [Print](#)

<b>BUSINESS TAX DETAIL</b>			
Business Name	AECOM TECHNICAL SERVICES INC	Business Address	2090 PALM BEACH LAKES BLVD # 600
Owner Name	AECOM TECHNICAL SERVICES INC	Owner Address	2090 PALM BEACH LAKES BLVD # 600
Receipt Number	8579	Status	Printed
Category	ENGINEERING SERVICES OFFICE	PROFESSIONAL, SCIENTIFIC & TECHNICAL SER	
Issue Date	2000-07-08	Expire Date	2021-09-30
Balance Due	\$0.00		

[History](#)



**ANNE M. GANNON**  
**CONSTITUTIONAL TAX COLLECTOR**  
*Serving Palm Beach County*  
**Serving you.**

P.O. Box 3353, West Palm Beach, FL 33402-3353  
 www.pbctax.com Tel: (561) 355-2264

**\*\*LOCATED AT\*\***

2090 PALM BCH LKS BLVD STE  
 600  
 WEST PALM BEACH, FL 33409-  
 6508

TYPE OF BUSINESS	OWNER	CERTIFICATION #	RECEIPT #/DATE PAID	AMT PAID	BILL #
56-0016 ENGINEER BUSINESS	AECOM TECHNICAL SERVICES INC	65814	B20.572759 - 09/09/20	\$33.00	B40130339

This document is valid only when receipted by the Tax Collector's Office.

AECOM TECHNICAL SERVICES INC  
 AECOM TECHNICAL SERVICES INC  
 2090 PALM BEACH LAKES BLVD #600  
 WEST PALM BEACH, FL 33409

**STATE OF FLORIDA  
 PALM BEACH COUNTY  
 2020/2021 LOCAL BUSINESS TAX RECEIPT**

**LBTR Number: 201003305  
 EXPIRES: SEPTEMBER 30, 2021**

This receipt grants the privilege of engaging in or managing any business profession or occupation within its jurisdiction and **MUST** be conspicuously displayed at the place of business and in such a manner as to be open to the view of the public.

# *State of Florida*

## *Department of State*

I certify from the records of this office that ARDAMAN & ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on January 2, 1990, effective December 28, 1989.

The document number of this corporation is L40551.

I further certify that said corporation has paid all fees due this office through December 31, 2021, that its most recent annual report/uniform business report was filed on January 4, 2021, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Fourth day of January, 2021*



*Randy Bee*  
**Secretary of State**

Tracking Number: 4924721402CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

# *State of Florida*

## *Department of State*

I certify from the records of this office that CONSOR ENGINEERS, LLC is a limited liability company organized under the laws of the State of Florida, filed on April 23, 2018, effective January 30, 1994.

The document number of this limited liability company is L18000098678.

I further certify that said limited liability company has paid all fees due this office through December 31, 2021, that its most recent annual report was filed on January 6, 2021, and that its status is active.

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Twelfth day of January, 2021*



*Randy R. Lee*  
**Secretary of State**

Tracking Number: 2212672011CU

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

# *State of Florida*

## *Department of State*

I certify from the records of this office that NORTHSTAR GEOMATICS, INC. is a corporation organized under the laws of the State of Florida, filed on July 2, 2002.

The document number of this corporation is P02000072218.

I further certify that said corporation has paid all fees due this office through December 31, 2021, that its most recent annual report/uniform business report was filed on April 16, 2021, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the  
Great Seal of the State of Florida  
at Tallahassee, the Capital, this  
the Sixteenth day of April, 2021*



*Samuel R. Bee*  
**Secretary of State**

Tracking Number: 5321635275CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

1/11/2021

Detail by Entity Name

DIVISION OF CORPORATIONS



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

### Detail by Entity Name

Florida Limited Liability Company  
THE BERRYHILL GROUP, LLC

**Filing Information**

<b>Document Number</b>	L12000026375
<b>FEI/EIN Number</b>	45-4620282
<b>Date Filed</b>	02/23/2012
<b>Effective Date</b>	02/22/2012
<b>State</b>	FL
<b>Status</b>	ACTIVE

**Principal Address**

2052 SECRET GARDEN LANE,  
UNIT 305  
FLEMING ISLAND, FL 32003

Changed: 10/09/2017

**Mailing Address**

2052 SECRET GARDEN LANE,  
UNIT 305  
FLEMING ISLAND, FL 32003

Changed: 10/09/2017

**Registered Agent Name & Address**

BERRYHILL, DIANNE J  
2052 SECRET GARDEN LANE,  
UNIT 305  
FLEMING ISLAND, FL 32003

Address Changed: 01/17/2018

**Authorized Person(s) Detail**

**Name & Address**

Title MGRM

BERRYHILL, DIANNE J  
2052 SECRET GARDEN LANE,  
UNIT 305  
FLEMING ISLAND, FL 32003

search.sunbiz.org/Inquiry/CorporationSearch/SearchResultDetail?inquirytype=EntityName&directionType=Initial&searchNameOrder=BERRYHILLGR... 1/2



1/11/2021

Detail by Entity Name


**Annual Reports**

<b>Report Year</b>	<b>Filed Date</b>
2019	02/01/2019
2020	01/03/2020
2021	01/11/2021


**Document Images**

<a href="#">01/11/2021 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/03/2020 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/01/2019 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/17/2018 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/10/2017 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/26/2016 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/20/2015 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/18/2014 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">01/26/2013 -- ANNUAL REPORT</a>	<a href="#">View image in PDF format</a>
<a href="#">02/22/2012 -- Florida Limited Liability</a>	<a href="#">View image in PDF format</a>

Florida Department of State, Division of Corporations



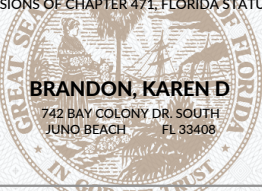
Ron DeSantis, Governor



**STATE OF FLORIDA**


**BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES




**BRANDON, KAREN D**  
742 BAY COLONY DR. SOUTH  
JUNO BEACH FL 33408


**LICENSE NUMBER: PE38579**  
**EXPIRATION DATE: FEBRUARY 28, 2023**  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.



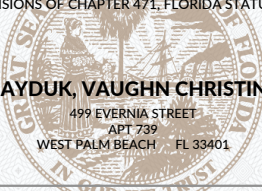
Ron DeSantis, Governor



**STATE OF FLORIDA**


**BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES




**HAYDUK, VAUGHN CHRISTINE**  
499 EVERNIA STREET  
APT 739  
WEST PALM BEACH FL 33401


**LICENSE NUMBER: PE84654**  
**EXPIRATION DATE: FEBRUARY 28, 2023**  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.



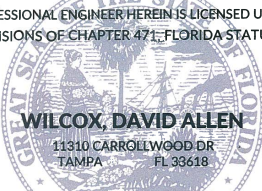
Ron DeSantis, Governor



**STATE OF FLORIDA**


**BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES




**WILCOX, DAVID ALLEN**  
11310 CARROLLWOOD DR  
TAMPA FL 33618


**LICENSE NUMBER: PE34942**  
**EXPIRATION DATE: FEBRUARY 28, 2023**  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.



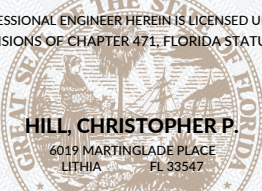
Ron DeSantis, Governor



**STATE OF FLORIDA**


**BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES




**HILL, CHRISTOPHER P.**  
6019 MARTINGLADE PLACE  
LITHIA FL 33547


**LICENSE NUMBER: PE66933**  
**EXPIRATION DATE: FEBRUARY 28, 2023**  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.



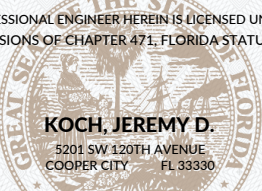
Ron DeSantis, Governor



**STATE OF FLORIDA**


**BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES




**KOCH, JEREMY D.**  
5201 SW 120TH AVENUE  
COOPER CITY FL 33330


**LICENSE NUMBER: PE69611**  
**EXPIRATION DATE: FEBRUARY 28, 2023**  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.



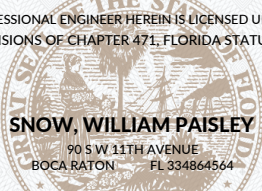
Ron DeSantis, Governor



**STATE OF FLORIDA**


**BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES





**SNOW, WILLIAM PAISLEY**  
90 S W 11TH AVENUE  
BOCA RATON FL 334864564

**LICENSE NUMBER: PE42757**  
**EXPIRATION DATE: FEBRUARY 28, 2023**  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor


STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES



**AHLGRIM, KURT R.**  
4036 WHITE BIRCH WAY  
ORLANDO FL 32817

LICENSE NUMBER: PE66987  
EXPIRATION DATE: FEBRUARY 28, 2023  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor


STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES



**LOVINS, WILLIAM A. III**  
10511 ABINGDON CHASE  
ORLANDO FL 32817

LICENSE NUMBER: PE58678  
EXPIRATION DATE: FEBRUARY 28, 2023  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor


STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES



**CURRAN, TIMOTHY MARTIN**  
524 PABLO ST  
LAKELAND FL 33803

LICENSE NUMBER: PE34809  
EXPIRATION DATE: FEBRUARY 28, 2023  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor


STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**JAKIELA, DAWN MARIE**  
19740 TESORO WAY  
FORT MYERS FL 33967



LICENSE NUMBER: PE75034  
EXPIRATION DATE: FEBRUARY 28, 2023  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA


DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL GEOLOGISTS

THE PROFESSIONAL GEOLOGIST HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 492, FLORIDA STATUTES



**BENNETT, MICHAEL WILLIAM**  
373 KNOTTYWOOD LN  
WELLINGTON FL 33414

LICENSE NUMBER: PG1558  
EXPIRATION DATE: JULY 31, 2022  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor


STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**THUMMADI, RESHMA**  
4216 SOUTHWEST 179TH WAY  
MIRAMAR FL 33029

LICENSE NUMBER: PE76219  
EXPIRATION DATE: FEBRUARY 28, 2023  
Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor

STATE OF FLORIDA

FBPE  
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**BARNES, SHELDON H.**  
110 EAST BROWARD BLVD  
SUITE 700  
FORT LAUDERDALE FL 33301

LICENSE NUMBER: PE71360  
EXPIRATION DATE: FEBRUARY 28, 2023  
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor

STATE OF FLORIDA

FBPE  
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**HANDJIEV, BOZHIDAR V**  
2043 SHADOW WALK  
PALM HARBOR FL 34685

LICENSE NUMBER: PE67573  
EXPIRATION DATE: FEBRUARY 28, 2023  
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor

STATE OF FLORIDA

FBPE  
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**EUSTICE, ROBERT JOHN**  
2330 WELLINGTON GREEN DRIVE  
UNIT 302  
WELLINGTON FL 33414

LICENSE NUMBER: PE86648  
EXPIRATION DATE: FEBRUARY 28, 2023  
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor

STATE OF FLORIDA

FBPE  
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**OVERBEEK, WILLIAM L**  
1042 FOGGY BROOK PLACE  
LONGWOOD FL 32750

LICENSE NUMBER: PE50398  
EXPIRATION DATE: FEBRUARY 28, 2023  
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor

STATE OF FLORIDA

FBPE  
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**MAY, PETER A**  
2057 SW OLYMPIC CLUB TERRACE  
PALM CITY FL 34990

LICENSE NUMBER: PE64374  
EXPIRATION DATE: FEBRUARY 28, 2023  
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor

STATE OF FLORIDA

FBPE  
FLORIDA BOARD OF PROFESSIONAL ENGINEERS

BOARD OF PROFESSIONAL ENGINEERS



THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**BRANDELL, IRA S.**  
AECOM WATER  
2090 PALM BEACH LAKES BLVD.  
SUITE 600  
WEST PALM BEACH FL 33409

LICENSE NUMBER: PE65814  
EXPIRATION DATE: FEBRUARY 28, 2023  
Always verify licenses online at MyFloridaLicense.com

Do not alter this document in any form.  
This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor


STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES



**MOTIWALA, KHALID**  
 101 S EOLA DRIVE  
 APT 1021  
 ORLANDO FL 32801

LICENSE NUMBER: PE50633  
 EXPIRATION DATE: FEBRUARY 28, 2023  
 Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
 This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor


STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES



**ZRALLACK, DANIEL JAMES**  
 460 NW CONCOURSE PLACE, UNIT #1  
 PORT ST. LUCIE FL 34986

LICENSE NUMBER: PE63911  
 EXPIRATION DATE: FEBRUARY 28, 2023  
 Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
 This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor


STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES



**BOURGEOIS, ETIENNE**  
 2182 SW RACQUET CLUB DRIVE  
 PALM CITY FL 34990

LICENSE NUMBER: PE61623  
 EXPIRATION DATE: FEBRUARY 28, 2023  
 Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
 This is your license. It is unlawful for anyone other than the licensee to use this document.

Ron DeSantis, Governor


STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

**BERRYHILL, DONNIE WAYNE**  
 2052 SECRET GARDEN LANE  
 #305  
 FLEMING ISLAND FL 32003

LICENSE NUMBER: PE32869  
 EXPIRATION DATE: FEBRUARY 28, 2023  
 Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.  
 This is your license. It is unlawful for anyone other than the licensee to use this document.



Florida Department of Agriculture and Consumer Services  
Division of Consumer Services  
Board of Professional Surveyors and Mappers  
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LB7217**  
Expiration Date February 28, 2023

### Professional Surveyor and Mapper Business License

Under the provisions of Chapter 472, Florida Statutes

**NORTHSTAR GEOMATICS INC**  
617 NW BAKER RD  
STUART, FL 34994-1032

NICOLE "NIKKI" FRIED  
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.



Florida Department of Agriculture and Consumer Services  
Division of Consumer Services  
Board of Professional Surveyors and Mappers  
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LS4350**  
Expiration Date February 28, 2023

### Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

**GREGORY STEVEN FLEMING**  
2433 SE WOOD AVE  
PORT ST LUCIE, FL 34952-6565

NICOLE "NIKKI" FRIED  
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.



Florida Department of Agriculture and Consumer Services  
Division of Consumer Services  
Board of Professional Surveyors and Mappers  
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LS6582**  
Expiration Date February 28, 2023

### Professional Surveyor and Mapper License

Under the provisions of Chapter 472, Florida Statutes

**FRANK CHARLES VELDHUIS**  
5820 NW ZENITH DRIVE  
PORT ST LUCIE, FL 34986

NICOLE "NIKKI" FRIED  
COMMISSIONER OF AGRICULTURE

**Mandatory Scored  
Questions Attachments**

**04**

# 4.1 Proposer's Location

Proposer's Location - Location shall mean a business which meets the following criteria: # of Miles from City Hall to Assigned Staff's Office location.

Our West Palm Beach office is located 46 miles from the City of Port St. Lucie City Hall and 49 miles from the Utility Systems Department. We count with a number of 23 personnel working at the West Palm Beach office, of which 21 are water professionals. AECOM has the resources and commitment to meet your schedule, time and budget expectations for this contract.

The AECOM team has LOCAL staff familiar with the community, stakeholders and their issues and needs, allowing us to efficiently work through the assigned projects to provide continuing engineering services for utility projects to the City of Port St. Lucie. In addition, AECOM can call on our significant Florida-based staff of 1,151 professionals as well as our extensive US-based experts, as needed.





# 4.2 Executive Summary

This section should include the Firm’s overall concept of the working relationship that will be required to successfully complete this project. The proposer shall provide an executive summary narrative containing information that indicates an understanding of the overall need for and purpose of the services presented in the RFP.

Our local AECOM team is intimately familiar with the requirements of continuing services contracts. AECOM understands that a wide range of project types from the City’s Capital Improvement Program could be assigned to our Team under the Continuing Engineering Services for Utility Projects contract. Our breadth of services available to the City of Port St Lucie will allow us to accept any project assignment that the City may have throughout the contract and complete it with staff from our project Team.

AECOM understands the special nature of continuing service contracts and the need to respond quickly on relatively small, yet critical, assignments of short duration, as well as managing long-term planning and design projects. Our concept of a successful working relationship on a continuing services contract is to be a responsive consultant and to have the flexibility to adapt procedures and staff to fit the nature of the assignments in order to provide the best service to the City.

### We will commit to a collaborative working relationship for the following reasons:

#### LOCAL SENIOR MANAGEMENT

Karen Brandon, PE, who has been based in our West Palm Beach office for more than 30 years, will serve as our Principal-in-Charge. Karen will be directly responsible to the City for our performance under this contract. She will be the primary point of contact for contractual matters.

#### COMMITMENT TO QUALITY

Quality is an attitude, a culture, and a way of life at AECOM. We strive to produce high quality project deliverables that are on time and within budget. We take pride in developing accurate opinions of probable construction costs with enough detail that provides for objective analysis should there be an issue.

#### UNPARALLELED SERVICE

Our clients can attest to the excellent level of service from AECOM. We will work diligently to earn your trust and develop a collaborative working relationship with the City’s team so we can work together to plan, design, permit and construct projects in your Capital Improvement Plan.

#### CAPABILITY TO DELIVER LOCALLY

With 1,151 staff in Florida, AECOM has a deep bench of resources with the technical expertise to deliver the City’s projects.

#### TALENTED LEADERSHIP

Vaughn Hayduk, PE, our Project Manager, has over 7 years of local experience in water and wastewater utilities. Vaughn will be the single point-of-contact for project coordination and communication and will be supported by technical leaders depending on the specific assignment.

#### COMMITMENT TO SMALL BUSINESS AND LOCAL PARTNERS

We have assembled a team of subconsultants to support AECOM including Northstar Geomatics for survey, Ardaman & Associates, Inc. for geotechnical services, CONSOR for Construction, Engineering and Inspection services and The Berryhill Group for grant and loan funding support.



Our approach to the technical aspects of assignments is to be flexible and tailor the approach to the specific assignment at hand. Since projects could encompass studies, modeling, design, and construction over a variety of disciplines, there is a no “one size fits all” for a standard approach.

As specific tasks are completed, the staff can be reassigned to other projects. Consequently, the City will only be supplied with personnel when needed. Our approach has evolved to provide support in areas where needed, with the underlying drive to continually move the City’s program forward. Timely turn-around on work products and knowledge of the City’s procedures, as well as affected agencies and stakeholders, are paramount to serving as an extension of your staff. The AECOM Team will continue to be flexible to the changing needs of the City and will provide in-house specialty services that are responsive to the needs of your fast-growing community.

### DESIGN PHILOSOPHY

We understand that there are many ways to design and/or rehabilitate facilities. Consequently, when given a design assignment, AECOM staff will work closely with City utility engineering and operational staff to develop a design that is easy to operate, is compatible with existing systems and meets the City’s needs.

Another important aspect that AECOM can supply is experience. Our Project Manager, Vaughn Hayduk, has specialized in pipelines, pump stations and hydraulic modeling however, she has the support of a Team of resources in Florida experienced in the design and construction of water, wastewater, and reclaimed water facilities including process selection, treatment systems, and the selection of equipment. Most of the key staff members have in excess of 20 years of experience.

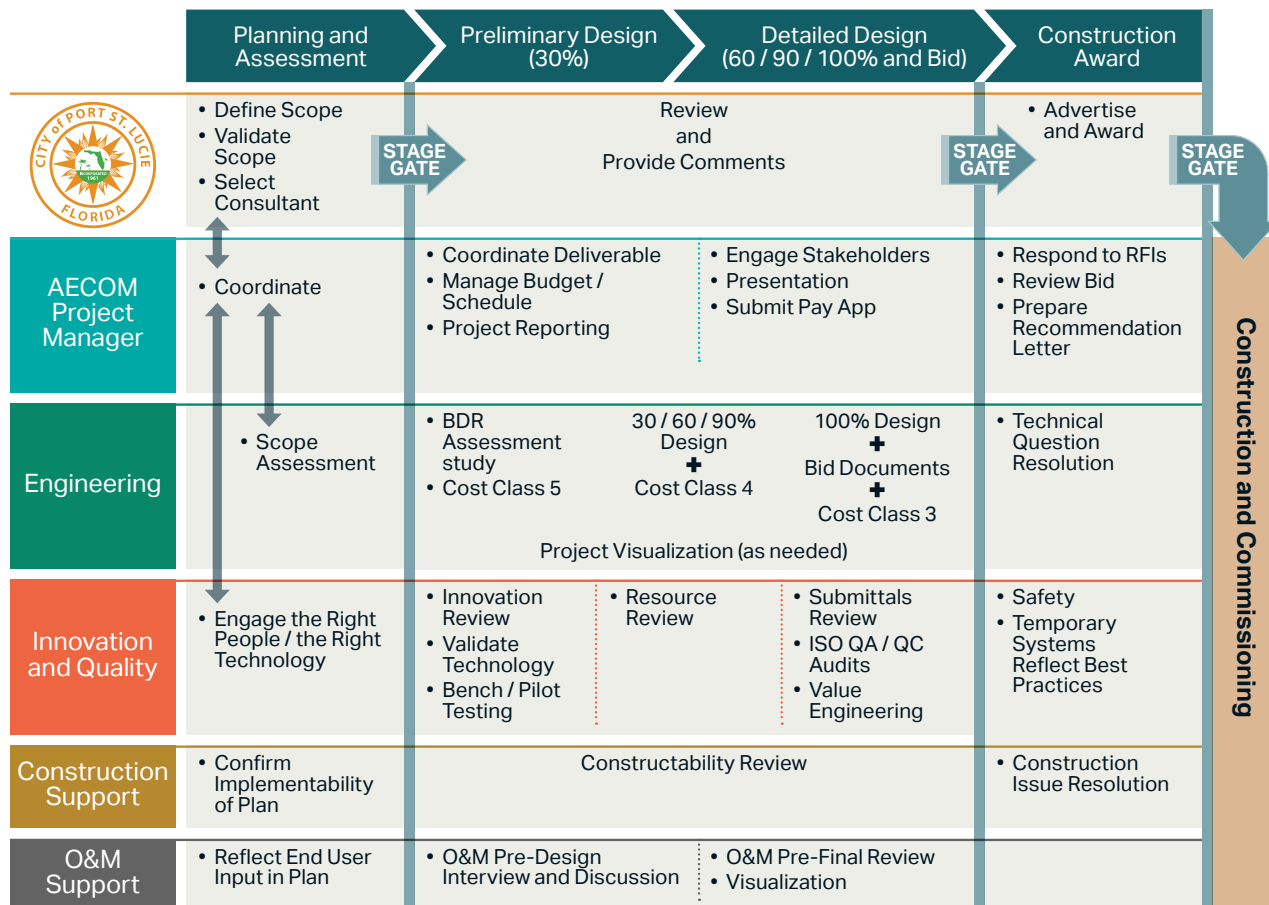
### PRE-WORK

When a project is identified by the City, a scope of services, fee schedule and project schedule will need to be developed. Utilizing information gathered during preliminary meetings and discussions with the City, AECOM will prepare a detailed scope of services, fee schedule and project schedule that will be submitted to the City for review and comment. Based on the comments received, these deliverables will be finalized and will become the guiding documents for completion of the project.

In addition, AECOM will also assemble the project staff to complete the work. The team will be assembled based on the type of work to be performed and the availability of staff. Once the team is identified, this information will be provided to the City.

## PROJECT EXECUTION

### Project Delivery Roadmap for Design Services

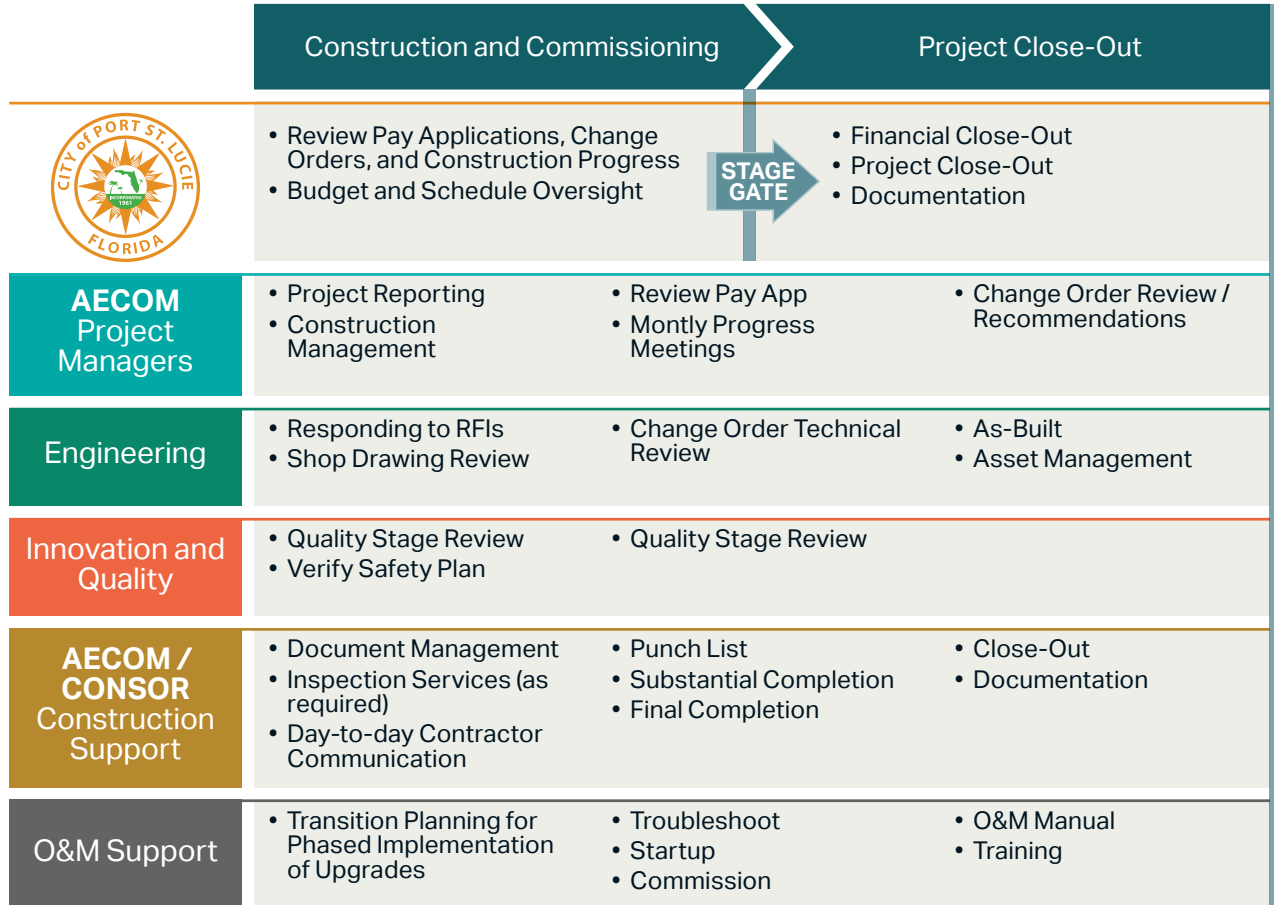


### Services During Construction

AECOM’s local subconsultant CONSOR will assist with CEI services. CONSOR brings recent experience working with City Utility staff. AECOM will structure these services in such a way that will meet the City’s needs, however, will ensure a quality construction project.

In general, the AECOM Team will provide the services indicated in the Project Delivery Roadmap below. These services can be expanded to a more full-service role with daily inspections and construction management, if needed.

### Project Delivery Roadmap for Construction Services



### MANAGEMENT APPROACH

The AECOM Team members assigned to this contract have extensive local experience in managing large and small projects, as well as major miscellaneous services and general engineering consultant contracts. This experience encompasses all management aspects of design review, and scheduling and construction of multiple on-going, multi- discipline projects. In addition, AECOM has managed some of the largest design and construction projects throughout the region. The experience gained on these programs provides insight and enhances our performance through proven project management systems and approaches. This experience will benefit the City’s infrastructure and residents by the quick implementation of design solutions.

AECOM will employ a simple but effective organizational framework to execute our assignments. The varied nature of services to be provided requires that different task managers be involved. The framework consists of the principal-in-charge, the project manager and a series of

task managers to serve the City on this contract. This project delivery system will meet the objectives of the City and is consistent with AECOM’s corporate method for work order contract execution. The system has proven its effectiveness on many large and small work order contracts with various federal, state, and local government agencies and with clients in private industry.

**Principal-in-Charge:** The Principal-in-Charge for this contract will be Karen Brandon, PE. As the Associate Vice President for the South Florida Water Business Line, Karen oversees client services for water resources, water supply, wastewater collection and treatment, reclaimed water reuse, water quality management and environmental sciences. She has more than 38 years of engineering and project management experience. She will assure that adequate staffing is available and the City is satisfied with AECOM’s work.

**Project Manager:** The Project Manager for this contract will be Vaughn Hayduk, PE. Vaughn has 7+ years of experience in the design and construction of water,

wastewater, and reclaimed water facilities including pipeline and pump stations, hydraulic modeling and condition assessment. She will be active in defining project conditions, scope of work, and resources necessary to complete all tasks within given budget and scheduling parameters. She will also provide project management supervision to assure that the project is completed in accordance with the scope, schedule and budget commitments.

**Task Managers:** The AECOM project team includes technical task managers for the various disciplines needed for this contract. Their role will be the technical lead in any given assignment, providing technical guidance to project staff. Based on their respective experience, they will be responsible for overseeing the preparation of the assignment deliverables and the overall quality of the deliverables.

## PROJECT COMMUNICATIONS

We recognize that there is a potential for a large variety of diversified professional services to be provided to the City. In order to provide for consistent communication between the City and AECOM, we recommend implementation of a communication protocol that will utilize single points of contact within the City and AECOM for each individual project. As the Project Manager, Vaughn Hayduk will serve as the liaison within AECOM to streamline communications.

We will use email correspondence extensively and technical memoranda and monthly progress reports, when necessary, to assist in the communication of technical, cost, and schedule issues.

Additionally, project status briefings and formal presentations to City staff can be scheduled at the

discretion of the City. Status briefings, formal presentations, and workshops are encouraged as additional mechanisms to facilitate communicating significant technical issues, potential schedule delays or other issues which appear significant. Our proposed protocol is flexible and can be easily modified to best suit the needs of each project and the City of Port St. Lucie.

## OVERALL NEED FOR AND PURPOSE OF THE SERVICES PRESENTED IN THE RFP

The City of Port St Lucie is the seventh largest city in Florida, and it is projected to grow to a population of 362,708 at full build out (and there is no specific timetable for that). That is approximately an 80% increase in population. The City's aging utility infrastructure was not constructed to handle such a growth in population creating critical demands for facility upgrades and improvements. Additionally, resiliency should be incorporated into all elements of the City's water resources, water, wastewater and reuse planning and projects. The City's Capital Improvement Program for the next five (5) years includes over \$147M in improvements to water treatment, RO wells, a DIW, water distribution, Westport WWTP improvements, wastewater collection systems, and storage area impoundments.

The City has a small team of engineers who need planning, design, permitting and construction services support. Currently there are workforce hiring challenges that make it difficult to expand the City's in-house capabilities. Our continuing contract client base in Florida allows AECOM to maintain a qualified and experienced staff for all types of small and large assignments. AECOM is able to provide the engineering services on virtually all of the anticipated projects identified on the City's CIP.

# 4.3 General Scope of Services

Provide a general description of the types of services your firm is capable of providing.

**The AECOM Team is exceptionally well qualified to perform the services identified in the RFP. We are not only ready and able to deliver the future assigned projects on schedule and budget – we are also incredibly excited about the opportunity to do so!**

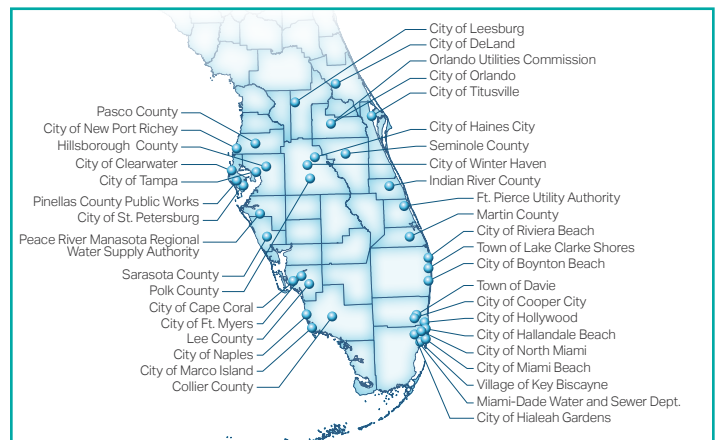
We understand that a wide range of project types could be assigned to AECOM under the Utilities Continuing Professional Engineering Services Contract. Our breadth of services available to the City will allow us to accept practically any project assignment that the City may have over the course of the contract and complete it with staff from our project team.

We strive to produce high quality project deliverables that are on time and within budget. We take pride in developing accurate opinions of probable construction costs with enough detail to provide for objective analysis should there be an issue. We have provided similar services to public utilities throughout Florida and have assigned personnel with experience and expertise to successfully complete assigned projects.

The AECOM team is recognized for the quality of its work in providing professional engineering services on a broad range of engineering projects. The firm provides a comprehensive range of engineering services encompassing, but not limited to, the following major disciplines:

- Master Planning
- Hydraulic Modeling
- Water Treatment
- Wastewater Treatment
- Odor Control
- Pump Stations
- Potable Water Transmission and Distribution
- Wastewater Collection and Conveyance
- Reclaimed Water Transmission/Distribution
- Water Resources
- Regulatory Permitting
- Construction Management / CEI Services
- Civil Site Design
- Electrical Engineering / Instrumentation & Controls
- Environmental
- SSES / I/I and Rehabilitation of Buried Infrastructure
- Resiliency

Figure 1 shows AECOM's key utility project experience throughout the state of Florida.



**Figure 1. Utility experience in Florida**

Our approach to the technical aspects of assignments is to be flexible and tailor the approach to the specific assignment at hand. Since projects could encompass studies, modeling, design, and construction over a variety of disciplines, there is a no "one size fits all" for a standard approach.

As discussed later in this section, all of our projects and project deliverables for the City will undergo AECOM's rigorous Quality Assurance/Quality Control (QA/QC) procedures. As specific tasks are completed, the staff can be reassigned to other projects. Consequently, the City will only be supplied with personnel when needed. Our approach has evolved to provide support in areas where needed, with the underlying drive to continually move the City's program forward.

Timely turn-around on work products and knowledge of the City's procedures, as well as affected agencies and stakeholders, are paramount to serving as an extension of your staff. The AECOM Team will continue to be flexible to the changing needs of the City and will provide in-house specialty services that are responsive to the needs of the ever-growing community.

Following are descriptions and recent examples of services AECOM is capable of providing to the City:

## WATER TREATMENT

From advanced to conventional treatment, large to small facilities, and complex to simple constraints, AECOM has a wealth of experience in helping Florida clients meet the public’s need for potable water. Our team has been very active in the design of water treatment systems for more than 40 years. As a recognized leader in potable water treatment technology, our team has taken projects from project conceptualization and pilot testing to design and startup. Water quality is a big issue: groundwater, surface water, desalted water, free chlorine, chloramines, disinfection byproducts, tightening regulations, the list goes on. AECOM is at the forefront of these issues.

In addition, the AECOM team pioneered the use of interstage turbines for energy which is used by Collier County and Marco Island at the NCRWTP and SCRWTP.



Figure 2. AECOM is the original designer of Collier County’s NCRWTP and was responsible for the addition of RO treatment at the SCRWTP.

The work AECOM has done in ion exchange for nitrate removal began nearly two decades ago when AECOM was selected by the USEPA to perform the initial research on nitrate removal by ion exchange. Since that initial study, AECOM has continued to expand its expertise in ion exchange technology and has improved this technology and its operation through the research and design of eight ion exchange nitrate removal treatment facilities ranging in capacity from 15 gpm to 11.1 MGD. We now include ion exchange Total Organic Carbon (TOC) removal projects in Florida.

Figure 3. The Peace River Manasota Regional Authority has relied upon AECOM’s expertise through two expansions of its water treatment facilities (24 MGD and 52 MGD). The Authority’s facilities include a 6-billion-gallon reservoir, wellfields, and surface water from the Peace River to supply water to the region. AECOM was responsible for the successful design of these operational components of the 100 MGD raw water pump system and the 23 miles of 42-inch pipeline, key components of the Authority’s expansion program.



## LIME SOFTENING AND ADVANCED WATER TREATMENT

In just the last few years, AECOM specialists have designed more than 25 lime softening and advanced water treatment plants, ranging from 30 GPM to 20 MGD. Our experience includes reverse osmosis, lime softening, nanofiltration, ultrafiltration, electrodialysis reversal (EDR), and microfiltration. Because of our expertise we have also performed a number of pilot studies, peer reviews and evaluations to assess the applicability and effectiveness of membrane technology for our clients.

## CONVENTIONAL TREATMENT

When high quality protected source waters are available, conventional treatment may still be an appropriate choice for our clients. AECOM continues to design facilities incorporating flocculation, sedimentation, gravity filtration, and chemical-feed systems to produce high-quality potable water. Many clients turn to AECOM again and again for expertise in conventional-treatment processes, like the Peace River/Manasota Water Supply Authority wherein AECOM has worked with the Authority for over ten years and designed two expansions: from 12 to 24 MGD and from 24 to 54 MGD for surface water treatment of the Peace River source water, a highly colored water supply of variable yield.

## WATER QUALITY ASSESSMENT

Our team’s water quality specialists and treatment process engineers are experienced in all facets of water supply evaluation and assessment, treatability studies, process development, plant design and facility construction.

A balanced systematic approach to water quality management is required in today’s regulatory environment, especially as it relates to the successful operation of water systems and compliance with the EPA’s Safe Drinking Water Act. Our team’s knowledge and experience relevant to water quality has been used to identify the following:

- Existing raw water quality
- Existing finished water quality
- Water quality within the distribution system
- Groundwater quality in and around the storage zone

- Influences of the storage zone on the quality of the recovered water
- Identification of minimal retreatment requirements
- Potential benefits of blending recovered water with distribution system water
- Potential impacts of re-distributed water on the existing distribution system

## WASTEWATER TREATMENT

AECOM has a long history of providing wastewater treatment and effluent disposal consulting engineering services to clients in Florida. We have hundreds of wastewater treatment related design projects to our credit, most of these major projects involve secondary or tertiary treatment facilities that allow effluent to be used for agricultural or urban irrigation, and as a result, go a long way in helping our clients achieve sustainable water resources.

### Conventional and Innovative Treatment Technologies

We have excellent capabilities to design conventional wastewater treatment facilities and are nationally recognized for the development of innovative, cost effective treatment and reuse technologies. These designs have included state of the art processes such as:

- Biological nutrient removal
- Upflow continuous backwash filtration
- Automatic backwash filtration
- Membrane Bioreactor (MBR) technology
- Reverse osmosis
- Anoxic/aerobic
- Oxidation ditches
- UV disinfection



Figure 4. AECOM provided facilities planning and was the design-builder for the Town of Davie's new water treatment and water reclamation facilities.

Additionally, our company was awarded engineering's most coveted honor, the Grand Conceptor Award, for a multifaceted wastewater reuse project in central Florida and has also enjoyed tremendous success with multimillion-dollar reclamation projects across the nation.

From wastewater collection to treatment to beneficial reuse, AECOM has the experience, personnel, and commitment to ensure our client's projects will be completed on time and within budget.



Figure 5. Aesthetics are always considered in designing pump stations, with structures built either underground or in harmony with their neighborhoods. (Collier County Master Pump Station).

### Odor Control

AECOM's odor control experts have worked on projects throughout the nation and possess considerable experience and expertise on odor abatement program development and implementation, odor control treatment technologies, dispersion calculations, and detailed design, permitting, and construction. Will Lovins, PhD, PE, is in the process of completing an Odor Control Study as part of a Lift Station Condition Assessment for the City of Riviera Beach. AECOM was tasked with performing field inspections, condition assessments of existing odor control systems, hydrogen sulfide monitoring, and a high-level review of alternative odor technologies.

David Wilcox, PE, completed design on a 3 stage biofilter followed by activated carbon canisters for a 9 MGD master wastewater pump station in the heart of downtown Sarasota. A fool-proof odor control system was a mandatory prerequisite for this very sensitive area.

### PUMP STATIONS/LIFT STATIONS

AECOM's design capabilities for pump stations entail civil, electrical, mechanical, and structural engineering; instrumentation and controls; and architecture. Our designers have completed the design on hundreds of pump stations in Florida and across the nation, both large and small, including wastewater, potable water and stormwater facilities.

AECOM has provided studies, design, construction, start-up, and operation of more than 300 new and existing pump stations, including work for the City of Hollywood and Collier County's Wastewater Basin Analyses Program for MPS 306.

The Basin 306 Program includes upgrades of three master pump stations and 27 duplex pump stations.

**Our team in the West Palm Beach office is currently under contract with Palm Beach County Water Utilities Department for their Master Pump Station and Lift Station Improvement program.**

AECOM’s procedures on pump station hydraulics and our in-house design experts are well-known throughout Florida.

**FINISHED AND RAW WATER TRANSMISSION AND DISTRIBUTION**

AECOM’s pipeline experts specialize in the intricacies of designing major and minor transmission and distribution mains. Our specialists have designed thousands of miles of pipelines to convey water, wastewater, and stormwater. Many projects have involved challenging circumstances, unstable soil, and tunnel sections for roadway and waterway crossings. Our scope of services for pipelines goes far beyond planning and design, encompassing pipe fabrication inspection, construction management, condition assessments and overall program management.



Figure 6. Technical manuals authored by AECOM staff.

Projects range from small site facilities to municipal-wide systems. Services in this area include planning studies, field studies of existing mains, hydrant flow and pipe condition tests, leak detection and repair, corrosion inhibition programs, storage reservoir, and pumping station design and construction. AECOM leads new developments in integrating network modeling with relational database management, GIS, SCADA, graphics, and integrating with network analysis software packages (WaterCAD, Cybernet, Stoner, etc.).

**THOROUGH DESIGN APPROACH**

AECOM’s pipeline experts recognize the significant differences between the engineering of major transmission mains and distribution mains. As a result, utilities entrust our firm with their most important projects and have confidence that AECOM will help them meet public needs. Our approach is to make appropriate material selections after comprehensive hydraulic analyses establish the design envelope.

We engineer multiple pipeline material alternatives when practical on an equal of a basis as is possible; this results in competitive bids and significantly reduced overall project costs. Our engineers have an eye for detail and catch items often overlooked, providing long-term value to the clients.

**AECOM’s pipeline experts specialize in the intricacies of designing major and minor transmission and distribution mains.**

**New Technologies**

The application of new pipeline technologies to our clients’ projects has been a hallmark of AECOM’s professional practice. Thorough research and analysis allow us to apply new technologies with the same level of confidence as if we were relying on tried-and-true materials and techniques. For example, we have specified the use of fiberglass pipe on several major projects up to 48 inches in diameter as well as near record Horizontal Directional Drilling (HDD) to cross major waterbodies. In addition, AECOM is at the forefront of pipeline rehabilitation technologies, fortified with advanced engineering analytic techniques including Remote Field Eddy Current analysis of Prestressed Concrete Cylinder Pipe.

**Leading Edge of Design**

Our engineers’ active participation in National Standards committees for AWWA (Steel Pipe, Concrete Pressure Pipe, and Large Diameter Butterfly Valves), ASCE (Pipeline Location and Rehabilitation), as well as local committees on corrosion and control systems help keep our staff abreast of the most appropriate technology. In addition, team members regularly present papers at pipeline-related conferences; serve as contributing authors to design manuals and handbooks published by AWWA, McGraw-Hill, and Butterworth-Heinemann; and conduct research projects for the AWWA Research Foundation on issues such as the latest in Pipeline Rehabilitation and External Corrosion of Buried Water Mains.

**Water Storage Facilities**

AECOM designs a variety of water storage facilities: elevated, ground level, below grade, open air, circular, rectangular, steel, and concrete. AECOM completed the West Hollywood Pumping and Storage project, which included two 2.5 mg above ground storage tanks and a new operations/pump building.



Figure 7. The West Hollywood Pumping Station and Storage facility includes two 2.5-mg aboveground storage tanks.



## WASTEWATER COLLECTION AND CONVEYANCE

AECOM has provided planning, design and construction phase services for numerous collection systems, countless lift stations, and hundreds of miles of wastewater force mains.

Collection system projects have included gravity, low pressure and vacuum sewers. We have extensive experience with the evaluation of alternatives to convert areas currently served with septic tanks to central sewers. Our lift station projects have ranged from the smallest of residential stations to large master stations with capacities up to 50-mgd. The lift stations have used submersible pumps as well as the most complicated wet well/dry well configurations with extended motor/pump shafts. These facilities often employ various ancillary equipment such as variable speed drives, odor control, emergency power, and SCADA.

Our expertise in gravity sewers includes rehabilitation as an answer to aging and deteriorated pipe sections. AECOM experts have assessed the conditions of hundreds of miles of sewer pipe and, where necessary, produced designs for rehabilitation with approaches such as slip lining, pipe-bursting, and cured-in-place "lining". In cases where gravity pipeline is insufficient, our team has considerable experience in designing lift stations to help convey sewage to a treatment facility.



Figure 8. The City of Miami Beach was concerned that failure could prove catastrophic to the Miami Beach community, causing discharge of millions of gallons of raw sewerage that can affect safety, human health, coastal environment, and local business operations. To mitigate the risks, the City contracted with AECOM to fast track the development and installation of a new 54-inch redundant pipeline that achieves the redundancy objective and utilizing trenchless approaches.

AECOM is currently working on a Wastewater Basin Analysis program for MPS Basin 306 in Collier County. The Basin 306 program includes construction on over 12,700 linear feet of 24-inch and 30-inch HDPE pipe and upgrades to MPS 303 and 304 and 27 duplex pump stations. The pipeline includes several horizontal directional drill segments and portions of the alignment along US 41.

## RECLAIMED/IRRIGATION WATER TRANSMISSION AND DISTRIBUTION

Dual water systems for potable water and irrigation has grown rapidly in Florida with many communities now requiring separate systems for new construction. And, with the stress on Florida's fresh groundwater water resources, more and more communities are expanding their irrigation water distribution systems and augmenting the supply of reclaimed water with surface water. AECOM has extensive experience on reclaimed/irrigation water distribution systems and has recently been involved in the planning, design and construction of several reclaimed/irrigation water expansion projects. We provided hydraulic modeling and design on over 190,000 linear feet of new reclaimed water distribution piping for various areas in Pinellas County. AECOM also provided design of a new reclaimed water distribution system for various areas in Clearwater, Florida. The work involved hydraulic modeling to confirm pipe sizes and the design and construction of over 200,000 linear feet of reclaimed water system piping.

## WATER RESOURCES

AECOM is dedicated to assisting the City in addressing the challenges of maintaining a safe and sustainable water supply for their citizens. We are committed to the deployment of the full range of our local experience, technical expertise and innovations to meet your goals.

AECOM enjoys a reputation as a nationwide leader in water resources planning. Our team consists of experts in analysis of alternative supply sources, development of water supplies, raw-water conveyance, conjunctive use and related issues. Many of our clients require assistance with increasingly complex issues involving climate change and water shortages.

AECOM has a local team of specialists to offer the City. This team includes locally based groundwater resource professionals that will deliver timely and innovative technical solutions. Our ground water supply team possesses an excellent working relationship with local regulatory agencies and fully understands the City's goals and challenges. AECOM specializes in a full range of hydrogeologic and water resource services.

## Groundwater Management

AECOM engineers and hydrogeologists have significant experience in estimating hydrogeologic parameters, and defining geology, stratigraphy and structure.

Groundwater projects include the development of ground water basin management plans for the effective use of basin water supplies and the protection of the basin from contamination.

AECOM's staff is also experienced in well design and construction, artificial recharge and groundwater banking programs.



Figure 9. Groundwater monitoring and groundwater management Miami Beach project.

### Groundwater Modeling

We are highly skilled in the groundwater modeling process. In our experience, all groundwater modeling efforts begin with developing a conceptual site model (CSM). Local and regional geologic, hydrogeologic, and analytical data, where applicable, are compiled and interpreted to create a comprehensive understanding of the physical properties of the site. AECOM modelers have applied the Modular Three Dimensional Finite Difference flow Model (MODFLOW), McDonald and Harbauty, 1988) modeling software to simulate the aquifer systems underlying Florida.

Groundwater models help evaluate groundwater development and management alternatives quickly and accurately. AECOM has applied or developed many groundwater flows and quality models to meet specific project requirements. With access to virtually all state-of-the-art models, AECOM selects the best model for a project and customizes it, if necessary, to meet the specific needs of our clients. As part of a RO WTP project, we developed and used a groundwater model to assess current and projected water quality for use during the design of the treatment plant. The model was recalibrated based on actual water quality following the construction of the supply wells.

### Aquifer Storage and Recovery

Another specific technology that AECOM has successfully implemented is Aquifer Storage and Recovery (ASR) for the injection and recovery of surface water, potable water and reclaimed water.

AECOM’s client since 1996, the Peace River/Manasota Regional Water Supply Authority operates one of the largest ASR system in the United States with 22 ASR wells. Our previous work also includes the award winning Marco Lakes ASR system expansion project for the City of Marco Island. The ASR project was nationally recognized in 2010 by the AAEE as winner of the Excellence in Engineering Grand Prize for Environmental Sustainability.

In Florida, we have completed supply wells for communities such as Davie, Oldsmar, Altamonte Springs, Apopka, and Vero Beach; ASR wells for the Peace River Water Supply Authority, Marco Island and the City of North Port; and 26 high capacity freeze protection wells as part of the award-winning Water Conserv II project in central Florida.

### Water Supply Wells

AECOM has extensive experience in the design, construction, testing, and equipping of wells in Florida. We have successfully designed and completed wells ranging in diameter from 2 to 30 inches, ranging in depth from 20 feet to over 2,400 feet in diverse geologic settings. We have provided oversight and testing services for over 200 successful water supply wells, with single wells yielding in excess of 6,000 gallons per minute. In Florida, we have completed supply wells for communities such as Oldsmar, Altamonte Springs, Apopka, and Vero Beach; ASR wells for the Peace River Water Supply Authority and the City of North Port; and 26 high capacity freeze protection wells as part of the award- winning Water Conserv II Project in central Florida.

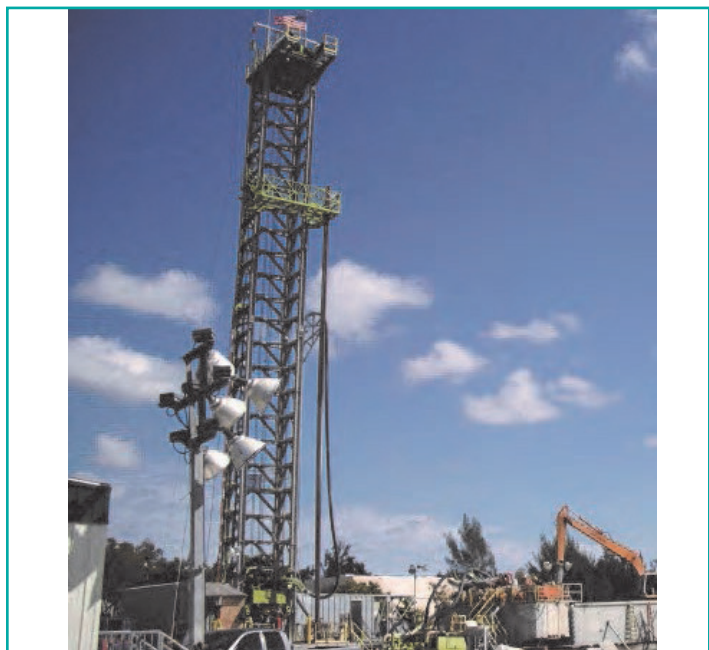


Figure 10. Throughout Florida, AECOM has designed and implemented water resource investigations to support development of new and expanded water supply wellfields.

## Deep Injection Wells

AECOM provides design, permitting, services during construction, operational data analysis and reporting services for Class I and V Deep Injection Wells. We have designed, permitted and provided construction services for the largest diameter Fiberglass Reinforced Pip (FRP) Class I industrial deep injection wells in the world for Martin County Utilities.

Our key project personnel bring extensive experience in pump selection, wellhead completion, and instrumentation and control systems associated with wells.

## CIVIL/SITE DESIGN

AECOM's West Palm Beach office has provided site infrastructure design and permitting services to local public and private sector clients for more than 40 years. During this time, we have developed good working relationships with city, county, SFWMD, DOH, FDEP, and FDOT personnel. Our staff is well-versed in state and local codes, ordinances, regulations, and permitting procedures. AECOM's local experience in the realm of site infrastructure design and permitting include, but are not limited to the following:

- Development of paving, grading and drainage plans
- Creation of site development plans with horizontal and vertical control
- Preparation of construction plans and specifications
- Drainage calculations and reports
- SFWMD ERP permitting
- FDOT drainage and roadway permitting
- City and County site development plan permitting
- FDEP and DOH permitting for site potable water, sewer, and septic systems
- USACOE/FDEP (as delegated) permitting
- Development of Storm Water Pollution Prevention Plans (SWP3 plans) and Best Management Practices Plans (BMP plans)
- Environmental Surveys and Reports
- Traffic Impact Statements
- Assistance during bidding and construction
- Shop Drawing review
- Final site certifications

AECOM offers complete engineering services for municipal capital improvement projects. We provide civil design for projects such as municipal complexes, town centers, commercial development; large office parks complete with lakes, road connectors and bridges; high schools, residential developments that include sophisticated drainage systems; and industrial sites involving utility relocations and massive earthwork.

We have served as project coordinator for multi-discipline site developments and understand the need for effective coordination among the various engineering, environmental, and architectural consultants.

Our civil engineering services include site layout, stormwater drainage, retention/detention ponds, grading, erosion control, parking lots, roads, streets, and utilities.

AECOM also offers plan and development review services for its clients. With our relevant experience in all facets of civil and environmental engineering and familiarity with adhering to local land development codes and state and federal regulations on our design projects, AECOM's engineers will provide fast, reliable review on the City's behalf.

## ELECTRICAL ENGINEERING

AECOM provides a full range of comprehensive electrical design services related to water and wastewater facilities, including medium- and low voltage power distribution systems, standby power systems, motor control centers, lighting, lightning protection and grounding, instrumentation and control, security and fire alarm systems, and assessment of existing electrical facilities. AECOM has five electrical engineers within Florida that have the experience and expertise for all the electrical engineering services required under this contract.

Among the electrical engineering services provided by AECOM's utilities group are load calculations; short circuit, protective device coordination and arc flash studies; harmonics analyses; voltage drop calculations; standby generator sizing; motor control; feeder, raceway and transformer sizing; cost estimating; and construction phase services. We have expertise in designing electrical systems for new facilities from the utility transformers and standby generators to the main switchgear, transformers, and motor control centers, down to the end-use equipment. We also have expertise in renovations and expansions of existing facilities.

AECOM provides cost-effective solutions to improve safety and reliability by replacing defective or obsolete equipment, correcting deficiencies, and coordinating breaker and protective relay settings.

We are fully committed to customer involvement early in the design process to tailor the electrical system design to your exact needs and specifications. We are well versed in NFPA 70 (National Electrical Code) and NFPA 820 (Standard for Fire Protection in Wastewater Treatment and Collection Facilities) and make certain that all design aspects of projects are code compliant.

Some of the services our group provides throughout a project's duration include the following:

- Coordinate with the power company to determine existing demand loads and to make sure there are no features, constraints, or other issues that might influence the proposed improvements.
- Develop a detailed phasing plan that will minimize downtime and keep system operational during construction.
- Prepare contract documents consisting of drawings and technical specifications, including power, controls,

lighting, grounding, lightning protection, fire alarm, security, and communications systems.

- Prepare an opinion of probable construction cost for the electrical work.
- During the construction phase, review contractor submittals for electrical equipment and answer contractor’s requests for information.
- Provide construction observation and witness testing of conductors, grounding, and electrical equipment.

AECOM completed the design and is providing construction phase services for the Electrical upgrades at the City of Fort Myers’ South and Central Advanced Wastewater Treatment Facilities.

### SCADA AND I&C

AECOM routinely designs instrumentation and control (I&C) and Supervisory Control and Data Acquisition (SCADA) systems on many projects. Process controls are part of most public utility infrastructure projects that we do, from simple pumping stations to large treatment plants. Instrumentation acts as a facilitator to integrate the process need with the mechanical equipment and the power distribution and communications systems so that all unit processes work in harmony. We have designed and commissioned small water and wastewater pumping stations, PC/PLC based control systems and large distributed control systems for projects throughout the nation and globally. AECOM process control designs have also included SCADA for water and wastewater treatment plants. We differentiate SCADA systems from plant control systems as SCADA monitors and reports the operating state of remote facilities to a monitoring center while a control system provides unit process control within a water or wastewater treatment facility. The SCADA system typically includes the monitoring of a plant control system from a central location.



Figure 11. AECOM has designed instrumentation and control and Supervisory Control and Data Acquisition systems on many projects, including several for Collier County and the City of Fort Myers.

AECOM provides a full range of comprehensive electrical and SCADA design services related to water and waste water facilities including medium and low voltage power, standby generator power systems, motor control centers, lightning protection and grounding, instrumentation and

control, security and fire alarm systems, Programmable Logic Controller (PLC) systems and assessment of existing electrical and SCADA systems.

### SSES/ I/I AND REHABILITATION OF BURIED INFRASTRUCTURE

Our expertise in gravity sewers includes rehabilitation as an answer to aging and deteriorated pipe sections. AECOM experts have assessed the conditions of hundreds of miles of sewer pipe and, where necessary, produced designs for rehabilitation with approaches such as slip lining, pipe-bursting, and cured-in-place “lining”. In cases where gravity pipeline is insufficient, our team has considerable experience in designing lift stations to help convey sewage to a treatment facility.



Figure 12. PVC Pipe Lining, Sewer Rehabilitation, North Miami Beach, FL.

### Infiltration/Inflow Reduction Program

Infiltration/inflow (I/I) studies and sewer system evaluation surveys involve a phased approach to locating and identifying sources of infiltration and inflow and documenting those sources that are cost-effective to remove.

AECOM has conducted many I/I and SSES studies over the past 20 years as a first step in assisting municipalities like North Miami, North Miami Beach and City of Hialeah Gardens in removing infiltration and inflow from their sanitary sewer systems and to quantify improvements.

Initially performed as a prerequisite to obtaining federal and state assistance for treatment plant projects, these studies are now directed to assisting communities in maintaining, upgrading their sewer systems and saving cost. Areas of staff expertise include GIS mapping, flow metering, pressure gages, system modeling and video inspection. AECOM also provides design and construction services to implement the findings of I/I and SSES studies. Our expertise has kept these municipalities in EPA Consent Decree Compliance and has also saved them in excess of \$1M of unnecessary metering flow costs back to Miami-Dade County.

## RESILIENCY

AECOM provides leading expertise in considering project alternatives using life cycle cost analysis and vulnerability of the facilities to climate change impacts, such as sea level rise, storm surge, wind, and flooding; as well as recommending mitigation options for these impacts and reducing the environmental impact of operations for a sustainable approach.

**AECOM understands that sea-level rise and resilience should be incorporated into all elements of any municipality's water resources: water, wastewater, stormwater, and reuse planning.**

AECOM has been a Strategy Partner for 100 Resilient Cities, Worldwide (100RC). In this role we have supported over 30 cities across the program, including greater Miami and the Beaches, with the 100RC strategy development process from initial workshops with all relevant stakeholders through the development of a preliminary resilience assessment, technical analysis in specific priority areas and development of a resilience strategy.

**AECOM recently worked with the City of Naples to develop a **Climate Vulnerability Assessment** which included identifying risks to public assets and critical infrastructure (built and natural).**

AECOM has the expertise to plan and address resiliency and implement the efforts within project delivery. Our team is well positioned to provide strategic planning, design and engineering capabilities to continue to identify and plan for climate change impacts at the local level and develop implementable strategies to increase organizational resiliency.

# 4.4 Program Management Services

Provide a description of the program management services your firm can provide.

As program managers/construction managers, we have delivered hundreds of major capital programs totaling nearly \$300B globally. Many of these programs were driven by mandated schedules, involved multi-consultant teams working together from a co-located office, achieved a high-level of transparency to promote public acceptance and trust, and involved knowledge transfer and training to reduce client reliance on the consultant community. The map below provides a snapshot of some of our major programs we have managed in North America.

**1** Water System Improvement Program, San Francisco, CA

**2** Blue Plains Advanced Wastewater Treatment Plant, Washington, D.C.

**3** Water Pollution Control Plant Upgrade, Arlington, VA

**4** R&D/BNR Upgrade Program, New York, NY

**5** Water System Capital Program, Chicago, IL

**6** Tarrant Regional Water District and Dallas Water Utilities, Texas/Integrated Water Pipeline, TX

**7** MWRA Boston Harbor Cleanup, Boston, MA

**8** Clean Water Program, Austin, TX

**9** Groundwater Reduction Program, North Harris County, TX

**10** Hartford On-Call Sewer Rehab Program, CT

**11** CSO Long Term Control Plan Program Management, Akron, OH

**12** CSO Program Management & Design Services, Atlanta, GA

**13** Milwaukee Metro Sewerage District/Collection and Treatment System Improvements, WI

**14** Overflow Abatement Program, Nashville, TN

**15** Pittsburgh Consent Order Compliance Program, PA

**16** Sewer System Improvement Program, San Francisco, CA

**17** Spokane CSO Reduction Program, WA

**18** San Diego Wastewater System Improvements Program, CA

**19** Baltimore CSO/SSO Program, MD

**20** New York City Wastewater Resiliency Program, NY

**21** South I-35 Water and Wastewater, Austin, TX

**22** PM + Construction Engineering Services, Chicago Dept. of Water Management, IL

**23** Passaic Valley Sewerage Commission Program Management Services, Newark, NJ

**24** Capital Improvement Projects Program Management Services, DeKalb County, GA

**25** Development of Citywide CSO LTCP, New York, NY

**26** Winnipeg Sewer Condition Assessment Program, Canada

**27** MTA/Central Subway, San Francisco, CA

**1** Alameda Rail Corridor, Los Angeles, CA

**2** Arizona DOT/Valley Freeway Program, Various Locations, AZ

**3** LAX Expansion and Modernization, Los Angeles, CA

**4** Chicago O'Hare International Airport, Chicago, IL

**5** Illinois State Highway Toll Authority, IL

**6** DOD Pentagon Renovation Program, Washington, D.C.

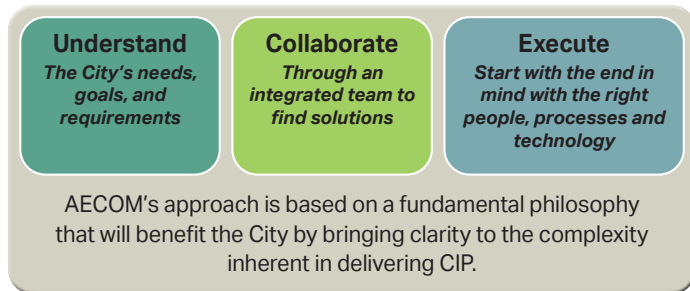
**7** New York City Transit/Second Avenue Subway, New York, NY

**8** New York City Economic Development Corporation, Yankee Stadium Redevelopment

● Selected Water/Wastewater PM Assignments  
● Selected PM Assignments in Other Market Sectors

Our program management experience, described in this section, includes communities large and small seeking to repair and renew aging water and sewer infrastructure while also planning for future growth, including Miami-Dade, DeKalb County GA, Baltimore, District of Columbia, San Francisco, Chicago, Austin, Fort Worth, and Milwaukee to name a few.

AECOM brings an efficient and comprehensive Capital Improvement Program Management experience and approach to the City that will focus on development and implementation of strategies that align with the City's organizational goals and desired outcomes. We approach managing complex programs with an understanding that program management is a system of interrelated, independent elements, processes, and resources that must be aligned and integrated into a shared vision.



We understand that one of the most important characteristics of an effective team is good communication. AECOM will develop a Communication Plan in collaboration with the City. Our Project Manager, Vaughn Hayduk, will serve as primary point of contact working with the City throughout the contract to foster and maintain effective communication.

### ASSET MANAGEMENT - PROGRAM AND PROJECT PRIORITIZATION; B/C ANALYSIS, RISK ANALYSIS, UTILITY RATE ASSESSMENTS

AECOM's approach to the design of an infrastructure asset management model is founded on eight core questions, shown in Figure 14. The foundation of this work will be a series of questions that, when answered, enable effective and sustainable management of infrastructure. By confirming and establishing a holistic understanding of the City's current status and asset management practices, AECOM can help the City define its long-term vision for Asset Management. Components of the plan would include the following:

- Metrics for condition assessment
- Asset management gap analysis and roadmap
- Asset management data review and data gap analysis
- Establish and document level of service
- Develop asset management strategies
- Develop an operations and maintenance model
- Establish renewal and replacement system
- Prioritize rehabilitation and replacement programs

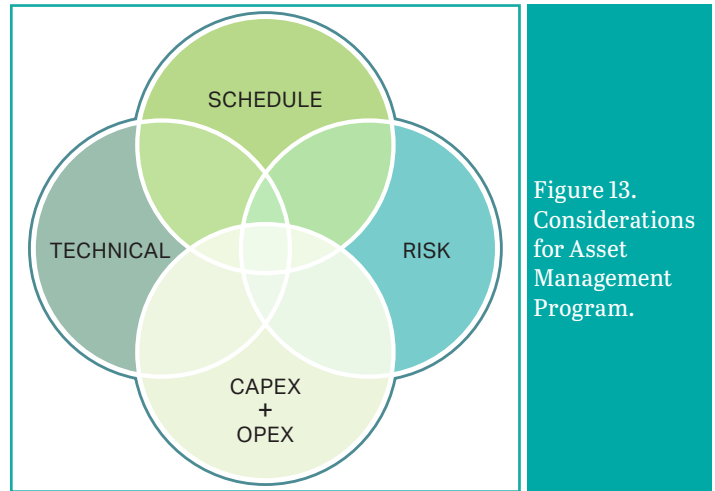


Figure 13. Considerations for Asset Management Program.

	Elements of Asset Management	Sustainable AM Requirements	Project Component	
Q1	What Do We Own?	Sustainable AM Requirements	State of the Local Infrastructure	Asset Management Gap Analysis and Roadmap
Q2	What is it Worth?	Undertake Asset Data and Gap Analysis		
Q3	What is the Condition?	Determine Infrastructure Value		
Q4	What is the Level of Service Expectation?	Develop Condition Rating System and Perform High-Level Condition Assessment	Levels of Service	
Q5	What are the Risks and Which Assets are Critical	Consult with Stakeholders to Develop Levels of Service	Asset Management Strategy	
Q6	What Needs to be Done?	Develop Project Prioritization Framework and Plan for Coordination Across Assets		
Q7	When do we Need to Do it?	Establish Project Timing, Leveraging off Risk and Prioritization Tasks		
Q8	What is the Best Long-Term Funding Strategy?	Conduct Sustainability Funding Review	Financial Strategy	

Figure 14. AECOM's approach to the design of an infrastructure asset management model.

AECOM will integrate with the City's Asset Management Tools and Systems. Utilization of the City's tools and programs must be done with keen appreciation of the City's needs. Our vision is to capture infrastructure condition and performance information and characterize risk in terms of both likelihood and consequence of failure. This approach allows us to prioritize infrastructure improvements, take corrective actions and maximize benefits of Program activities. Our work will establish enduring practices, workflows and benefits after the current Program is completed. By understanding the risk profile of the assets, AECOM will develop recommendations for a reliability-centered maintenance (RCM) program specifically tailored for the City. The RCM program will transition from previously unplanned/reactive maintenance activities which are inherently very costly and impact levels of service, to a more proactive maintenance program. **Our goal of this program would be to ensure the long-term viability of critical assets, achieve service level expectations, and establish sustainable funding levels that are defensible and that minimize life cycle costs of the infrastructure.**

## STRATEGIC DELIVERY SOLUTIONS

Using strategic contracting assessments, AECOM can develop unique solutions for each capital program we manage. We take into account such issues as, client experience and priorities, risk and financial viability.

Our extensive knowledge and experience with applicable legal and regulatory constraints and a variety of delivery models, allows our project management teams and our clients to create the best delivery solution for any project or contract.



Figure 15. AECOM develops customized risk registers to help our clients identify risks, establish risk likelihood and consequences, and develop mitigation measures.

## MANAGEMENT USING A RISK REGISTER

The Risk Register is the primary presentation tool for management of risk. The Risk Register identifies risks, indicates mitigation measures, and rates the mitigated risks to prioritize how the impact is reduced to acceptable levels.

A key aspect of the Risk Register is that it identifies organizations and individuals responsible for completing action items so that each risk is mitigated as much as possible until it can be closed.

The process of risk management is an iterative loop of action, re-evaluation assessment and additional action that is required throughout the project from beginning of planning to the end of construction.

Throughout the program, the Risk Register would be updated, be consistent in format and record and present risks to the project management team and all stakeholders such as that the most important and major risks can be tracked and mitigated.

## SUPPORT OF SCOPE, COST, SCHEDULE, COMMUNICATIONS, AND STAKEHOLDER MANAGEMENT

Today’s clients demand cost certainty and timely delivery in capital programs at the quality levels and scope limits that constituents and stakeholders expect. AECOM blends technology, innovation, best practices, and experienced, industry leading professionals to realize our clients’ goals and business requirements. We consistently exceed our clients’ needs and bring clarity to the most complex water capital programs throughout North America. We are committed to providing a legacy impact in the communities we serve.

As a premier leader in program and construction management, we direct and develop projects of all sizes and scopes while ensuring our clients’ timelines, budgets, and quality needs are met. From funding and financing, strategizing and planning, design, construction packaging, procurement, and delivery through training, operations and maintenance, and close out, AECOM program management professionals, processes, and procedures drive clarity, collaboration and high performance throughout the entire program life cycle.

Our subject matter experts bring a comprehensive slate of skills and capabilities to every phase and aspect of program and construction management services. Our ethic is to share all we know with our client partners, which is why knowledge transfer is included in all our program management assignments. Because we understand the functions and responsibilities required during all capital program life cycle phases, we are able to seamlessly implement and deliver consistent, successful outcomes.

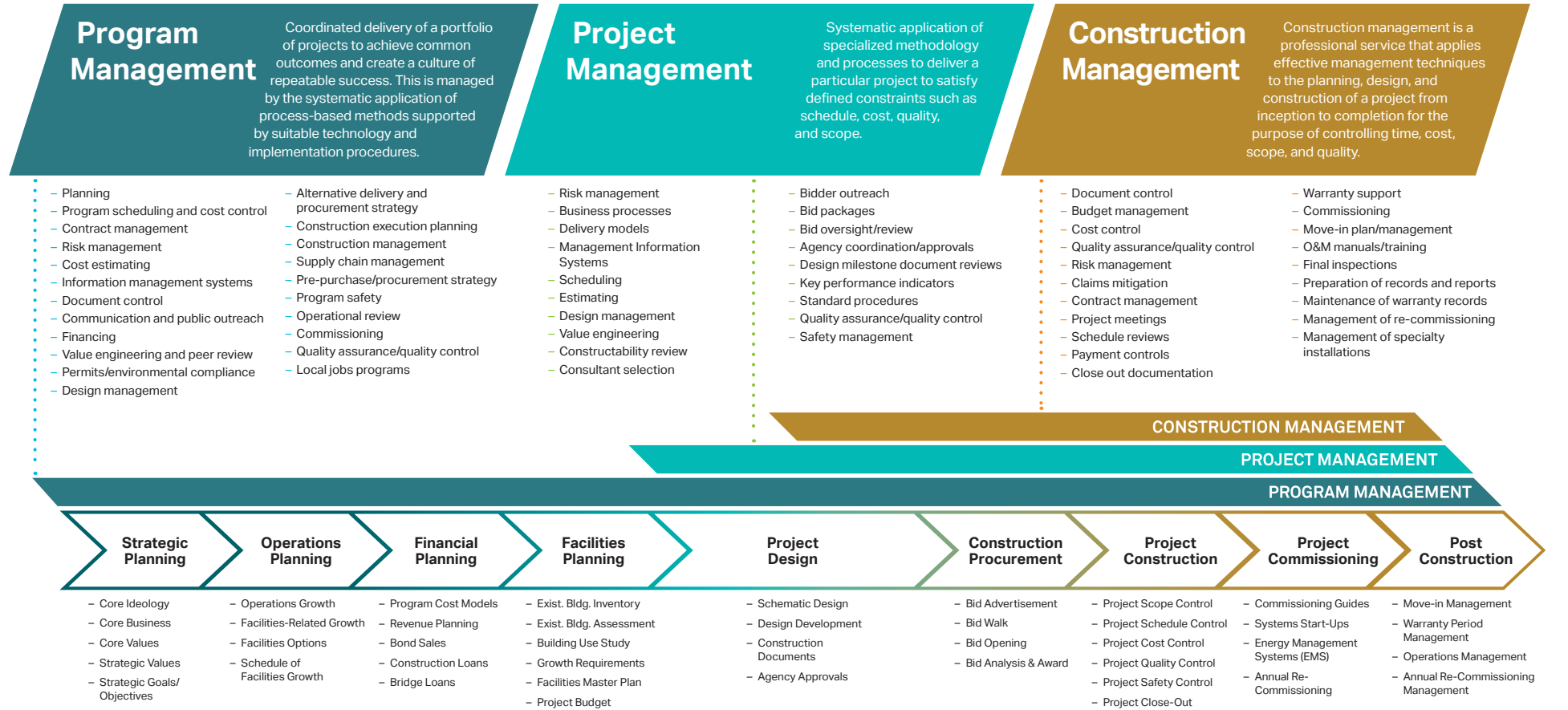
We manage a variety of programs, including:

- Water resources
- Water and wastewater treatment
- Conveyance
- Industrial
- Stormwater
- Consent decrees
- Community infrastructure

Backed by the knowledge and resources of more than 40,000 employees around the world, our experts understand the importance of delivering cost-effective, sustainable solutions.



AECOM, a *Fortune 500* company, is one of the largest program management firms in the world. A truly global enterprise, AECOM operates in more than 150 countries.



## PROGRAM CONTROLS

### Approach Summary

AECOM will implement a program management and controls system focused on no slippage of the current schedule and meeting all milestones, while controlling and containing costs.

#### Benefits of AECOM's Approach to the City

##### Managing the Program Schedule

- Major milestones and deliverables broken down into smaller subtasks through the Work Breakdown Structure (WBS) process so that a more accurate picture of true progress can be developed and identified
- Provides for an early warning system that detects task progress that could cause a deliverable or milestone to be delayed
- A tool for performing what if scenarios during development of project prioritization options so that cash-flow requirements are considered in the analysis

##### Managing the Program Budget

- Provides real-time understanding of the financing requirements
- Predictability in cash flow needs to aid financing
- Confidence that program costs are realistic and defensible
- Ability to forecast future staff requirements both internal and external

## PROGRAM BUDGET

The Program Budget will be developed based on the WBS such that the budgets integrate with the scope and schedule. Our process for developing the Program Budget will include:

- Estimating the costs of each project element, including construction costs, based on the project scopes
- Determining project contingencies in conjunction with risk assessments
- Applying appropriate escalation factors to project estimates in line with the program schedule
- Finalizing and creating a baseline schedule of the master program budget for the City
- Validating actual costs against progress and the existing financial systems.
- Updating current forecast costs and cash flow projections on a regular basis and revising budgets when appropriate
- Refining project schedules and budgets, project relationships, and sequencing as project technology and process alternatives are refined

One of the first tasks will be to review the budgets and scope of work for the projects that are already defined as part of this program. With our vast experience and database of construction costs, knowledge of design fees, equipment costs, and other soft costs, AECOM will be able to validate these budgets quickly. If changes are required, we will work with you to prioritize projects and recommend changes. We will maintain the Program Budget throughout the life of the program. As changes occur and actual costs are known we will make adjustments and report them back to the City.

## PROGRAM MASTER SCHEDULE

The Program Schedule will be developed through a collaborative workshop. The initial high level schedule will identify key projects, milestones and coordinated activities. The Program Schedule provides a program road map and will be reviewed and updated, along with cash flow, at least monthly as the program evolves. This may include project vetting and reconfiguration and changes in funding and program priorities.

We would recommend developing the Program Schedule using Critical Path Method techniques and network analysis to provide a display and understanding of all project durations within the Program.

Our process for developing the Program Schedule includes:

- Working with the City to validate all milestones and deliverables, and the status and required sequencing of any remaining planning tasks, to develop a work plan that will define the master plan for the program
- Establishing schedule templates for the projects, standard schedule phase and task durations, standard milestones, and scheduling rules including schedule contingencies
- Working with the City operations staff to define project relationships and sequencing constraints, facility shut down requirements, and system operations constraints
- Establish network logic between tasks and projects to schedule relationships that are clearly understood and managed
- Finalizing the individual project scopes and submitting the Program Schedule for GLWA approval

## COMMUNITY AND STAKEHOLDER OUTREACH

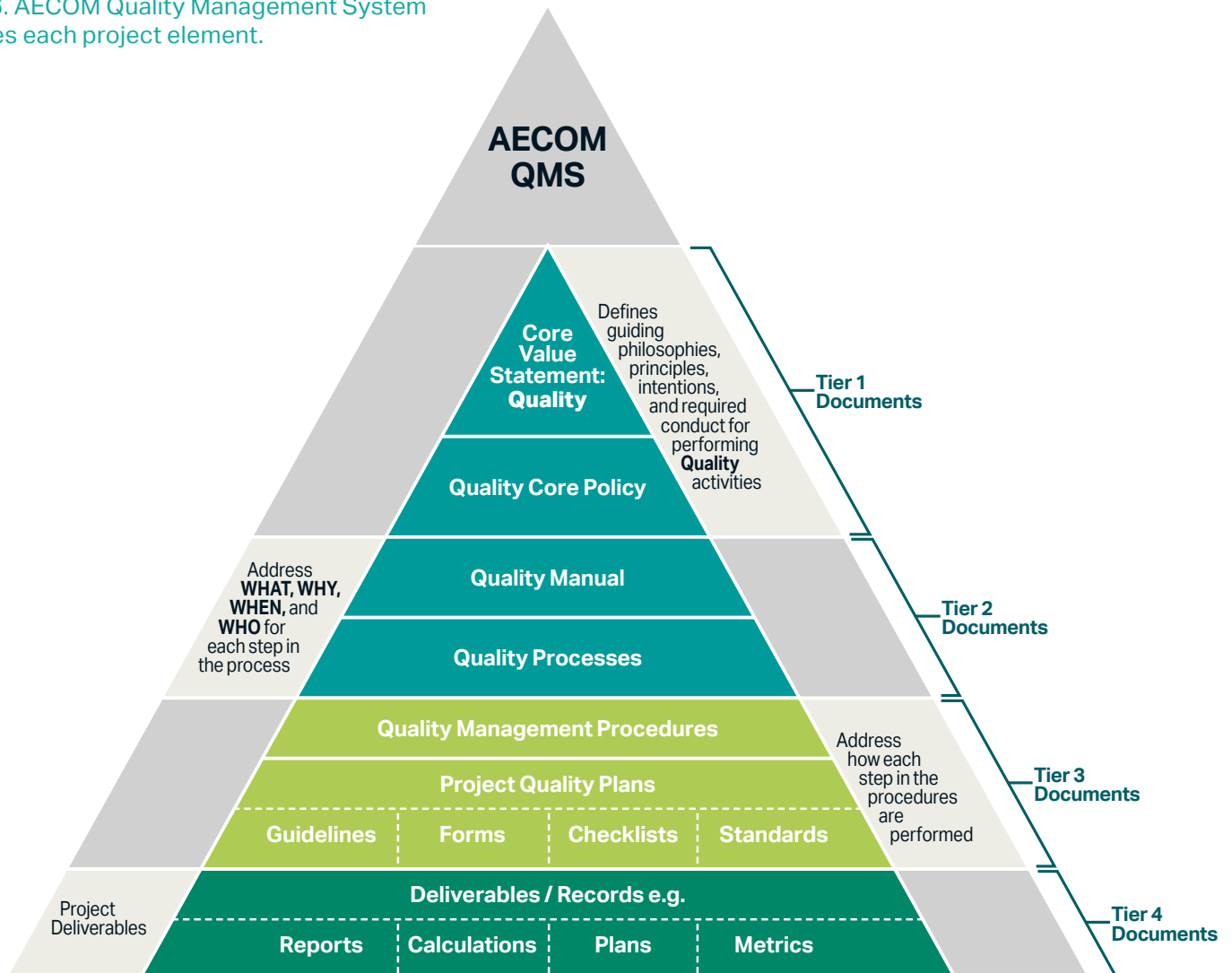
Stakeholders directly and indirectly influence the success of a program. Stakeholders may include regulatory, political, and community agencies; local city and county governments; and local business owners and residents. Engaging the various stakeholders early in the planning of a program is critical to success. AECOM's approach is to thoroughly understand all stakeholders' concerns and issues, and shape the delivery strategy to reflect stakeholder agendas and concerns. A major factor in delivery success is keeping the stakeholders affected by the work informed in a thorough, accurate, and timely way, of all planned work and its current status.

- Perform QC, constructability reviews
- Quality Management
- Quality is an attitude, a culture, and a way of life at AECOM. It is part of everything we do, every day. Quality Assurance/Quality Control (QA/QC) is a system of procedures put in place on a program that consists of inspection and auditing, thereby enabling high standards of quality to be achieved. This allows deliverables and work products through all phases of the Program to be right the first time, the specifications intent to be met, contract delays reduced and a reliable and workable end product achieved.
- Our approach to quality follows the international standard for quality management systems (QMS), ISO 9001. As one of the few ISO 9001-certified professional and technical services firms in North America, AECOM developed its system to address the standard's requirements, and we confirm compliance through formal auditing and verification.
- What does this mean to the City? It means that AECOM will bring a world-class Quality Management System (QMS) which sets forth the policies and procedures in

maintaining quality while identifying areas of continual improvement, and with the tools and means to confirm quality is achieved for the CIP.

- Achieving an exceptional level of quality on the CIP will be the result of minimizing risk. The AECOM Team will collaborate with the City to formulate a QA/QC Plan that responds to both Program- level and Project-level risks with equal effectiveness. Applying our QMS, AECOM's QA/QC Plan will provide the overarching Quality Management policies, standards, procedures, tools, and documentation.
- The AECOM Team's QMS (Figure 16) is a powerful yet very friendly union of the industry's best QA/QC planning, control, and documentation practices. Planning and controlling standards for quality are fundamental in not only the Construction Phase of a project but in the Planning and Design Phases as well. Quality is not naturally inherent in all projects; it is the result of good planning, a team effort, and an understanding by all the team members as to how quality is achieved.

Figure 16. AECOM Quality Management System addresses each project element.



## CONSTRUCTABILITY REVIEWS

Constructability reviews provide input on the difficulty of construction, ambiguity of the plans and specifications, and risks inherent in the project design and the contract from the perspective of the constructor. These reviews are typically conducted in parallel with design reviews. They include a site visit, detailed plan check and specification review, design phase schedule review, review of environmental compliance requirements, and contract terms and conditions. Our team's constructability reviews will address:

- Completeness of the design documents and potential conflicts within the specifications
- Adequacy of contractor's compound area and the field office, storage, and laydown areas
- Incorporation of known underground and overhead interferences
- Health and safety issues; Environmental issues
- Community issues; including traffic impact and control requirements
- Construction methods that result in excessive costs
- Identification of inspection, testing, and acceptance of SYstemS
- Materials delivery requirements; including interface requirements with Agency-purchased equipment and manuals.
- System shutdown requirements, start-up and commissioning issues, and interface requirements with other projects
- Potential for claims
- Completeness and integration of all parts of the contract documents for bidability (ambiguity and excessive risks)

Our team will provide a thoughtful review of the contract plans and specifications, both technical and commercial, from a contractor's point of view and will identify project risks as well as ways to mitigate each risk. Our construction experts will perform constructability reviews to confirm that each design package adheres to all City, County, state, and Federal requirements as well as sequenced in a manner that can integrate with operations, and be constructed in the allotted time period with minimum risk.

## ASSIST IN CREATION OF SCOPE DOCS, CONTRACT PROVISIONS, PROJECT CONCEPT REPORTS, RFP DOCS

### Scoping and Contract Provisions

Our team will develop scopes of work and schedules for each project. Following selection of a design consultant or approval of an in-house work plan, we will assist the City with design fees negotiations and deliverables schedules. The result will be design work plans that meet the scope, schedule, cost, and quality requirements necessary to support the overall schedule and budget, and the objectives of the program.

The AECOM team will identify the right degree of design scope definition to support selection of the best design alternatives, processes and equipment to complete the work. The degree of design definition will be established in balance with the preferred delivery mechanism, schedule drivers, and desired degree of design control and risk.

Our team will also define what the design team must provide to support environmental approvals, permitting, and property acquisition. We will work with the design teams to develop the design package WBS for direct input into the master schedule, consistent with program WBS guidelines.

The designers or the AECOM team depending on the task assignment will be required to prepare construction schedules and estimates based on each design deliverable. Design phase construction schedules provide an understanding of the impacts to the project schedule of construction sequencing requirements and other constraints, such as facility shutdowns, that are defined through the design process. Our team will define the level of detail required for each construction schedule and estimate deliverable in the design scope of work.

### Submittals/RPF Reviews

Thousands of construction submittals and shop drawings will be processed for the Program, many of them containing the details necessary to install, start-up, operate, and maintain the new facilities. Construction submittals will be centrally processed and managed through our Construction management Information System (CMIS) for all projects, which provides for collaborative and concurrent reviews, and is conducive to consistent work procedures and ready retrieval.

Construction managers (CMs) will administer the submittal review process strictly according to procedures to be developed with The CM Plan. We will provide recommendations for Division 1 specifications that streamline compliance reviews, such as deviation listing and submittal of full, clearly marked specification sections annotated for compliance paragraph by paragraph with each submittal. Any submittals deemed substitutions are sent back for resubmittal under substitution provisions, and when properly prepared, will be assessed on a point-by-point basis.

The CMs will create a master submittal list for each project in the CMIS from the specifications prior at the start of construction. Submittals will be identified by specification section, a due date code to highlight early submittals, and reviewers. Submittals will also be tagged for training, O&Ms, spare parts, and warranties to establish lists for the management of these items. The master submittal list will be used to establish the distribution for review of the various submittals.

Non-compliant submittals will be documented and returned to the contractor for re-submittal. Reviewers will provide comments through the CMIS submittal workflow. The CMIS compiles all review comments; from the CM all

shop for Division 1 submittals, and the engineer of record for technical submittals and shop drawings and will provide status reports and alerts for overdue submittals to facilitate proactive management of the submittal process.

### Progress and Status Reporting

Contractor's progress and performance are measured based on the contractor's compliance with the scope of work, approved resource loaded schedule, and progress assessment of activities. The CM will submit monthly Construction Progress Reports to WASD and the PMO for incorporation into Program level progress reports and the PMIS. A reporting calendar will be developed and distributed to all effected parties so that reporting is completed at the same time for all projects to support progress rollup for the overall Program.

Construction progress reports will summarize the progress and major issues of a project. A typical format includes:

- Status of the project safety plans and records
- Progress planned and achieved through the end of the reporting period
- Schedule issues and forecast completion of schedule milestones
- Cost and forecast of contract costs at completion
- Summary of quality issues
- Open issues
- Summary of submittal RFI, RFS, and RFD requests
- Change request status and summary of trends
- Risk status
- Summary of environmental compliance
- Public outreach activities
- Outstanding issues that could affect cost, schedule, quality, or coordination with other projects

Integrated reporting processes and the integration of our CMIS with our program reporting system will facilitate timely and consistent input from all construction projects as well as submittal of program level reports to the City.

### Structural Engineering review

AECOM structural group provides structural analysis and design services for water and waste water facilities. The design group is experienced in local building codes and internationally applied ACI (American Concrete Institute) codes such as 318 for buildings and 350 for environmental structures. The structural group is led by Mr. Khalid Motiwala, PE, who has over 30 years of structural engineering experience and who also serves on ACI committees that author ACI 350 codes. The structural group includes a solid team of technical leaders with capabilities in the following:

- Concrete, steel and aluminum design for new structures
- Forensic structural analysis and condition assessment of existing structures

- Rehabilitation of existing concrete and steel structures
- Knowledge of local codes and construction practices
- Finite element structural analysis for complex structures
- AutoCAD and BIM/ Revit document delivery
- Experience in Design Build, CMAR and conventional project delivery methods

### Utility Coordination

For utility design projects, it is especially important to include coordination meetings with representatives of affected existing utilities. Initial contact would be by letter, notifying them of the upcoming project and requesting available record drawings on their respective utility systems. The affected utilities would next be contacted after the preliminary pipeline alignment has been established. If there are no potential conflicts or construction issues related to the design, plan sets and an anticipated construction schedule would be provided and no further interaction would be needed. If, however, construction issues are identified, a formal utility coordination meeting will be conducted. Issues such as supporting existing utilities, crossing requirements, etc., will be discussed and the resolutions documented and identified in the project specifications.

### Coordination with the City's Staff

All projects will require input from the City's operations and engineering staff. Prior to the start of design, AECOM will meet with the appropriate staff members to discuss issues such as piping and equipment specifications, shut down requirements and other operational issues. The results of this initial meeting will be summarized in a memorandum to the City's Project Manager. Periodic review meetings will be conducted throughout the design phase, ensuring all construction documents meet the City's needs.

### FDOT Liaison or St Lucie County

All pipeline projects will require some form of right-of-way use permit, either from a City agency, County or the Florida Department of Transportation (FDOT). Once the preliminary pipeline alignment has been established, AECOM will meet with the appropriate right-of-way agency to discuss the project, maintenance of traffic requirements, construction constraints and restoration requirements. This meeting will be used to alert the affected agencies to the project and identify construction constraints.

Brian Mekarski will serve as the FDOT District 4 liaison on this contract for the City. We are very familiar with FDOT processes and procedures, design specifications, permit requirements and policies. We have utilized this approach on numerous projects and have found that it streamlines the permitting process and greatly reduces change order requests during construction.

# 4.5 Planning Support

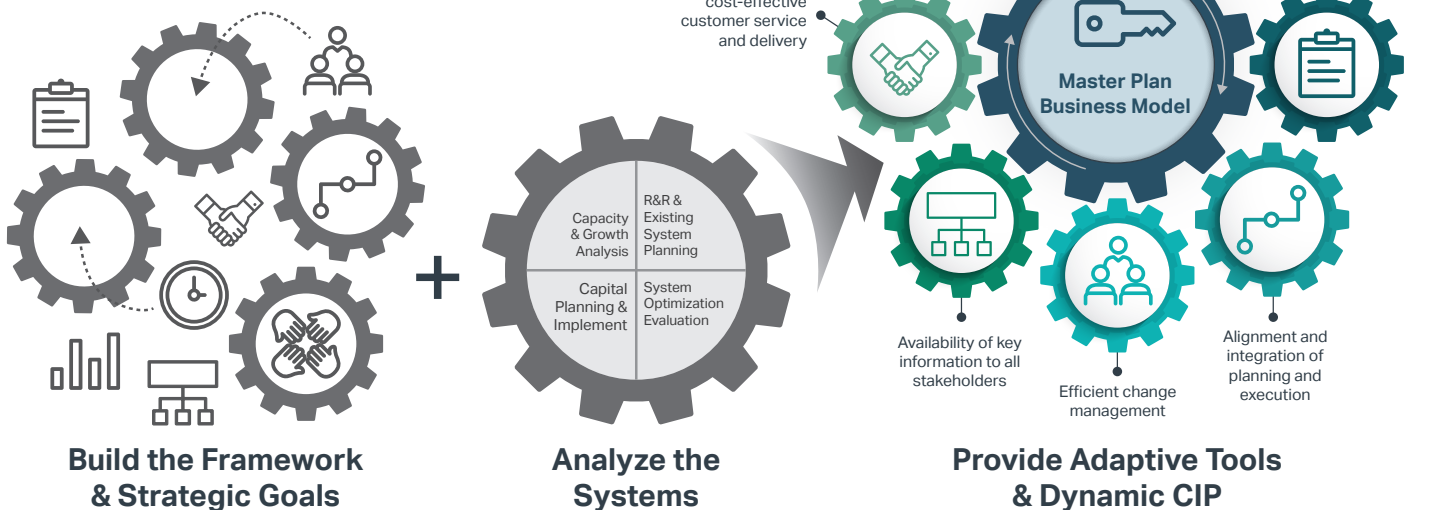
Describe the types of planning your firm can provide.

## MASTER PLANNING/STUDIES

AECOM offers a comprehensive array of planning services to help our clients meet the challenges of the future. The services that we provide include population and demand projections, characterization of existing water resources, determining the need for additional sources of supply, evaluating treatment processes, hydraulic modeling, developing alternatives to satisfy projected demands, and recommending system improvements to meet demands over the entire planning horizon.

AECOM has prepared numerous utility master plans for our Florida client’s municipal systems. These plans have established the condition of the existing system and then formed the “road map” for utility expansion. Our clients have enjoyed specific recommendations that allow planning and budgeting for identifiable Capital Improvement Projects (CIP). **For growing communities, the plans have also allowed our clients to require new developments to install certain infrastructure that meets the ultimate needs of the utility rather than simply the needs of the development.**

Our experience has shown the key to successful master planning is the careful and thoughtful collection and evaluation of existing data and future projections. Another key element of successful master planning is having a variety of design and construction experience in the various areas of utility engineering, including pipelines, pump stations, storage, treatment, grants/loans, and permitting.



## Water Supply Planning

AECOM has a strong history of assisting clients with water system management through holistic planning including:

- Demographic and land use studies
- Historic water demand statistical analyses and forecasts
- Water conservation, reservoir siting and assessment
- Safe yield analyses
- Distribution systems hydraulic modeling
- Evaluation and assessment of existing utility assets
- Development, evaluation, and comparison of alternatives for water supply, treatment and distribution
- Water treatment process design
- Financial planning and asset management
- Researching water related topics such as emerging contaminant and impacts of global climate change

Figure 17. AECOM's comprehensive and dynamic master planning framework

## Wastewater Planning

AECOM’s reputation for wastewater planning is built on its record of excellence in the management of all aspects of wastewater infrastructure.

AECOM offers a variety of planning services related to wastewater systems including assistance with demographic and land use studies, wastewater flow analyses and forecasts, collection system modeling, environmental assessments, water quality analyses, evaluation of wastewater treatment and disposal alternatives, cost-effectiveness analyses of alternatives, and development of user charge and cost recovery systems. We are familiar with state and federal requirements and have prepared numerous plans for wastewater systems serving both small rural areas and larger urban centers. In addition, AECOM is a leading authority in water reuse, having worked with EPA and WERF on Water Reuse standards and serving on Florida’s Potable Reuse Commission.

## Reclaimed Water/Reuse

AECOM’s expert staff has worked on water reuse projects ranging from spray irrigation to indirect potable reuse. Due to widespread population growth, water reclamation and reuse have become widely accepted for water conservation and effluent reuse. By utilizing these means, AECOM engineers are taking the necessary steps to eliminate surface water discharges, improve water quality, and decrease irrigation and other non-potable demands on potable water supplies. For both large and small systems, AECOM offers the range of services that can be required by reuse and effluent disposal programs.

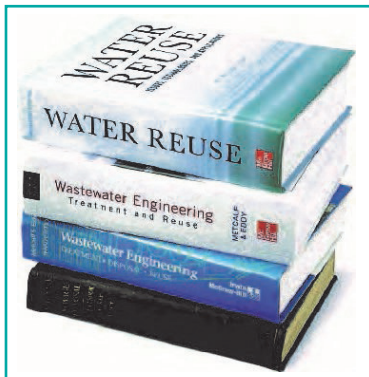


Figure 18. As a testament to AECOM’s expertise and commitment to the reuse industry, our textbook, Water Reuse, is considered a benchmark in this growing industry and is used in institutions, academia, and professional practice alike.

Many of AECOM’s reclaimed water system designs have included aquifer storage and recovery, public access irrigation systems and indirect potable reuse. We have provided master planning, hydraulic modeling and design of transmission and distribution pipeline systems, design of treatment facilities, construction coordination and public awareness programs.

Water Independence for Cape Coral (WICC) is the official name of what is widely regarded as one of the nation’s largest urban dual water systems, which AECOM helped make a reality. AECOM developed a master plan for the project and designed many important elements, including the \$23M Southwest Water Reclamation Facility and several canal pump stations that look like homes.

AECOM’s master plan for WICC outlined a dual water system that limits potable water to indoor uses and allows the City to satisfy the water use demands of a rapidly growing population. Significant features addressed in the master plan included more than 120 miles of transmission main and 2,000 miles of distribution pipeline.

## HYDRAULIC MODELING

AECOM has an integrated group of hydraulic modeling specialists and engineers who collaborate on a national and regional (Florida) basis to discuss emerging technologies and address project technical challenges. We specialize not only in steady state hydraulic models, but also in extended period simulation analysis, water age, water quality modeling, surge analysis, transient analysis, unidirectional flushing planning, asset management approaches to sewer pipe and water main replacement prioritization, inflow and infiltration assessments, computational fluid dynamics, and on-site modeling training for clients. We take great pride in our model calibration processes and believe that a model has little value if not properly calibrated. Calibration is achieved through extensive field testing and the use of SCADA and historical operation data. We have engineers who are competent with most commercially available modeling software, including InfoWater, WaterCAD, SewerCAD, InfoWorks ICM, and H2O Map (non-GIS), which is the City’s preference for modeling the sanitary sewer collection system and the City’s potable water and reclaimed water systems.

A sound foundation of experience is essential to performing hydraulic modeling for potable water, reclaimed water, and wastewater collection and conveyance systems. AECOM’s extensive proven recent experience with hydraulic modeling and master planning studies will benefit the City by providing that essential foundation.

AECOM has recently created hydraulic models for Florida communities such as Lee County Utilities in Fort Myers; Miami-Dade Water and Sewer Department in Miami; Collier County; Marco Island; and City of Apopka Utilities.

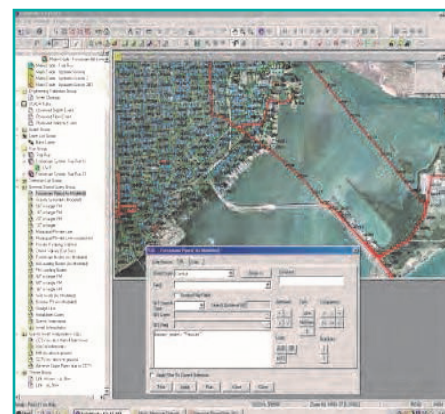


Figure 19. AECOM has created more than 25 models in the last five years alone and has recently created potable water system models for public utilities within Florida.

AECOM's hydraulic modeling team consists of engineers who have dedicated their entire careers to the water and wastewater industry, especially the hydraulic analysis and design of potable water, reclaimed water, and wastewater collection and conveyance systems. The project team members also serve as technical experts on master planning and modeling projects for AECOM throughout North America. AECOM's experience and approach to the many different types of hydraulic modeling services are detailed in the paragraphs that follow.

### Model Calibration

A hydraulic model is simply a mathematical representation of the real system and, to be used with confidence, must be calibrated so that observed events closely match modeled simulations. Only then, can the calibrated model be used to project system response to future conditions and response plans developed. AECOM understands the importance of a well-calibrated hydraulic model and has assisted agencies across North America in designing and carrying out field data collection programs, using collected data to calibrate the hydraulic model, and implementing ongoing business processes to keep the model up-to-date. AECOM is able to assist our clients in determining the level of calibration that is required, what field work and data collection programs are needed and what procedures must be implemented to maintain the calibrated model.

For wastewater models, our team has developed protocols for calibrating dry weather flow (DWF) and wet weather flow (WWF) based on WaPUG and other standards. We have developed accepted business procedures for agencies to maintain model calibration using rain gauge, flow monitoring and radar (NEXRAD, etc.) data and calibrating Rainfall-Derived-Inflow and Infiltration (RDII) parameters. A key component with model calibration in a manifolded forcemain system is an accurate representation of pumping station operation and control logic. Our modeling experts are well versed in operational strategies, meeting with operators to document these strategies, and capturing these strategies in the hydraulic model.

**AECOM was responsible for the development and calibration of Collier County's wastewater conveyance system model.**

### Hydraulic Modeling for Reducing Water Age in Potable Systems

Water age impacts the quality of water from the time it is treated to when it is ultimately delivered to the customer. Many water quality problems result from interactions between water within the pipe and the pipe wall, and within the bulk water. As water age increases, chemical and/or biological reactions occur allowing for water quality degradation within the distribution system.

Excessive water age is manifested in numerous ways. If the water travels a long time from the treatment plant to the consumer, the residual disinfectant concentration will decrease as chlorine or monochloramine reacts with organic material in the water and on the pipe walls. Further, potentially harmful byproducts may be formed as the decaying disinfectant residual reacts with organic matter in the bulk water. Typical problems associated with excessive water age include:

- Reduced microbial inactivation at suppressed disinfectant residual levels
- Corrosion due to changes in pH, particularly in poorly buffered water
- Bacterial oxidization of nitrogen compounds (free ammonia from chlorination) to form nitrite and nitrate
- Areas of low or stagnant flow providing more favorable conditions for microbial accumulation or growth compared to well-circulated areas

Hydraulic models are invaluable tools for identifying and correcting water age problems in a potable water distribution system. Models can calculate water age for existing conditions and can also predict water age for any other operating condition. The use of "what if" scenarios allow for trial and error testing of methods on reducing water age without subjecting the utility and its customers to methods with limited benefit.

Water age analysis is most useful when evaluated with extended period simulations, particularly those long enough for water to travel from sources to extremities so that age predictions equilibrate with repeatable diurnal patterns. Water age simulations are also used as surrogates for more complex evaluations of the chemical reactions occurring in the system. EPA has allowed water age modeling to be used in determining sampling locations for the new Stage II Disinfection Byproduct Rule through system specific models.



**Figure 20. AECOM provided for localized hydraulic modeling and calibration to provide set points for remote system operations' optimization for West Hollywood pumping and storage facility.**

AECOM is a pioneer in all types of water quality modeling. Any project involving addition of storage will include water age analyses.



We have completed projects where the fate of chlorine residual was modeled, including in Pinellas County, Florida. Most recently, AECOM completed potable water age analysis for the City of Marco Island. We have also prepared simulations of disinfection byproducts.

### Extended Period Simulation

AECOM routinely uses extended period simulations to assess pump operations, energy use, storage capacity, and sanitary sewer overflows. It also is useful in water age analysis.

These types of analyses provide utilities with a better understanding of overall system operations and provide an easy way to confirm the impact of proposed changes.

### Water Demands and Allocation

AECOM's approach to demand development and allocation depends on the format of consumption data and on whether the utility's customers can be spatially located in the modeling environment. Ideally, each customer is assigned a point location and these demands are allocated to model nodes to accurately reflect geographic distribution. We also evaluate production records to develop diurnal patterns for use in extended period simulations.

### Integration with GIS

AECOM has extensive experience in integrating existing data sources such as GIS, billing records, and digital terrain models into potable water system and wastewater collection and conveyance system hydraulic models. AECOM created water and wastewater system models for the Miami Dade Water and Sewerage Department by integrating their existing GIS and other data sources into the model. This model is one of the largest wastewater system models in North America. As in Miami, AECOM typically uses a direct one to one integration with the GIS to allow easy transfer of data.

### Hydraulic Model Training

AECOM has extensive experience in training utility staff on the use and maintenance of hydraulic models. AECOM has developed an approach to training that focuses on the specific needs of a utility. Our training has included detailed three day training programs covering the full range of modeling topics to brief training on a specific topic. In all cases the training materials are developed specifically to meet the needs of our client, unlike many generic training programs that utility staff has trouble relating to.

### Hydraulic Water Model Maintenance



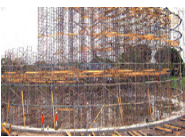

A critical issue with a hydraulic model is the need to ensure that it is maintained and updated as changes are made to the system. Many utilities struggle with this and benefit from the process and procedures that AECOM has developed. A successful approach that AECOM has used to help utilities, including Miami, is the development of a flow chart identifying the steps and who is responsible for transferring the information into the model and how often this should be completed. In addition, many utilities ask AECOM to update (and sometimes recalibrate) the model.




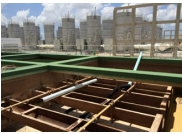


AECOM believes that the utility staff is the most appropriate to update and maintain the model due to their local knowledge and often are more efficient than using an external firm. However, we recognize time commitments sometime prevent this. AECOM follows the procedures developed for updating the model and ensures that full documentation is provided.

# 4.6 Design Support

Provide a list of at least 5 but no more than 10 projects within the last 5 years that your firm has done and describe what types of projects and services your firm provided.

## RELEVANT PROJECT EXPERIENCE

PROJECT NAME   CLIENT   KEY PERSONNEL	SERVICES PROVIDED	YEAR COMPLETED
 <p><b>Wastewater Systems Priority Projects Program</b>  <b>Client:</b> Miami-Dade Water and Sewer Department (WASD), FL  <b>Key Personnel:</b> Jeremy Koch, Brian Stitt, Sheldon Barnes, Khalid Motiwala, Reshma Thummadi, Ira Brandell</p>	<p>AECOM is leading a team of 12 firms (most being small MBE/DBE partners) that are program and construction managers (PMCM) for the Sanitary Sewer Overflow and Consent Decree program to comply with an ongoing EPA Consent Decree. Example projects include rehabilitation and renewal of treatment facilities, new sludge dewatering and thickening facilities, upgrade or replacement of pump stations and force mains. All projects are sequenced and scheduled within the 15-year consent decree timeline.</p>	<p>Ongoing</p>
 <p><b>Miami Springs Wellfield Assessment and Well Construction</b>  <b>Client:</b> Miami-Dade Water and Sewer Department (WASD), FL  <b>Key Personnel:</b> Michael Bennett</p>	<p>Due to the age of this wellfield and associated infrastructure WASD retained the services of AECOM Technical Services to develop a condition assessment report. It addressed the raw water production wells and associated mechanical, electrical, and structural components and functional integrity. Phase I (TO#25) included data/literature review, downhole video inspection of all 23 production wells and reporting, engineering valuation, development of a list of recommendations and associated conceptual design/repair/eliminate for individual production wells. Phase II (TO#28) included the preliminary and final design of the typical rehabilitation of the existing production wells, new production well construction, and plug and abandonment of poor production or deteriorated production wells.</p>	<p>Ongoing</p>
 <p><b>City of St. Petersburg General Engineering Services</b>  <b>Client:</b> City of St. Petersburg, FL  <b>Key Personnel:</b> David Wilcox, Tim Curran, Sheldon Barnes, Khalid Motiwala, William Overbeek</p>	<p>AECOM has provided continuing engineering services related to wastewater utility systems. Sample projects include: <i>Southwest Water Reclamation Facility (WRF) Filter Facility Improvements</i> – Design of improvements to the existing 20-mgd filter system including new under drain filter block, new media, assorted valve/sweep maintenance, valve replacement, and motor actuator rehabilitation. <i>Lift Station 82</i> – Evaluation, design, and construction of lift station, which receives flow from two different force mains and a local gravity system. <i>Lift Station 85 Force Main Design Criteria</i> – Hydraulic evaluation of a new 7-mile 30-inch force main and the development of design criteria, standard specifications, and typical details to be used by five separate design teams. <i>Reclaimed Water System Evaluation</i> – Work included preliminary design of facilities to be located at both the Northeast WRF and the Northwest WRF to intercept, store, and pump waste activated sludge to the collection system for the Southwest WRF.</p>	<p>Ongoing</p>
 <p><b>Historic Miramar Infrastructure Improvement Program Phase III</b>  <b>Client:</b> City of Miramar, FL  <b>Key Personnel:</b> Karen Brandon, Sheldon Barnes, Robert Eustice, Peter May, Joseph Helkowski</p>	<p>AECOM provided design, permitting, and construction services for the Historic Miramar Infrastructure Improvements – Phase III, which was a septic tank replacement and utility system improvement program in the City of Miramar. The sanitary sewer system will provide wastewater disposal service to a centralized utility for some 894 Equivalent Residential Units (ERUs) and includes 32,555 LF of 8-inch and 10-inch polyvinyl chloride (PVC) gravity sewer, 115 standard gravity sewer manholes, 9 gravity sewer manholes with drop assembly, 1,928 LF 4-inch to 10-inch ductile iron (DI) force main, one duplex submersible lift station (each pump 600 gpm @ 105 feet TDH, 30 HP).</p>	<p>2021</p>

	<p><b>Process Enhancements for the City of Miramar West Water Treatment Plant</b>  <b>Client:</b> City of Miramar, FL</p> <p><b>Key Personnel:</b> Bill Snow, Will Lovins, Khalid Motiwala</p>	<p>AECOM provided a condition assessment and improvements evaluation of the West Water Treatment Plant system for possible modifications to enhance plant functionality, reliability, and raw water utilization/treatment capacity. The evaluation identified immediate and long-term plant needs. AECOM prepared a preliminary opinion of probable construction cost for the City's budgetary planning purposes, as well as an implementation strategy to address immediate and long-term system improvements. AECOM is currently under contract to perform DIW rehabilitation and preliminary design of plant improvements.</p>	<p>2020</p>
	<p><b>City of Cooper City General Engineering Services Contract</b>  <b>Client:</b> City of Cooper City, FL</p> <p><b>Key Personnel:</b> Michael Bennett, Brian Stitt, Will Lovins, Sheldon Barnes, Khalid Motiwala</p>	<p>Since 2009, AECOM has supported the City of Cooper City with continuing professional services. As General Services Consultant, AECOM provided civil engineering, water resources, water treatment, wastewater treatment, stormwater design and distribution/conveyance and lift and pump station services. Some examples of the work include: Cooper City UIC Operation Permit Renewal; Cooper City Deep Injection Well Option Analysis; Cooper City Mechanical Integrity Testing; and Geochemical Modelling to determine Chemical Well Stimulation Options to Restore the Injection Capacity of a Class I Industrial Injection Well.</p>	<p>2020</p>
	<p><b>Hialeah Water Treatment Plant R&amp;R</b>  <b>Client:</b> Miami-Dade Water and Sewer Department (WASD), FL</p> <p><b>Key Personnel:</b> Will Lovins, Bill Snow, Sheldon Barnes, Jeremy Koch, Michael Bennett, Khalid Motiwala, Ira Brandell, Bill Overbeek</p>	<p>AECOM has provided services to upgrade the infrastructure and operations of the Hialeah Water Treatment Plant and associated pipelines, wellfields, re-pumping facilities, remote storage and its appurtenant facilities. Some relevant task authorizations we have delivered professional services for under this contract include Renewal and Replacement Plan Update and NE 79th Street Causeway Water Main Design and Environmental Resource Permit.</p>	<p>2020</p>
	<p><b>Preston Water Treatment Plant R&amp;R</b>  <b>Client:</b> Miami-Dade Water and Sewer Department (WASD), FL</p> <p><b>Key Personnel:</b> Will Lovins, Sheldon Barnes, Jeremy Koch, David Wilcox, Ira Brandell, Khalid Motiwala, Bill Overbeek</p>	<p>AECOM has a Professional Services Agreement with Miami Dade County, Florida for engineering and construction management services to upgrade the infrastructure and operations of the Miami Dade Water and Sewer's Department's 160-mgd Preston Water Treatment Plant, along with associated pipelines, wellfields, re-pumping facilities, remote storage and its appurtenant facilities. Resiliency and sea level rise was and continues to be a prime consideration for those design projects. Fifteen task orders have been assigned as part of this contract.</p>	<p>2020</p>
	<p><b>Water Master Planning and Distribution System Water Quality Improvements</b>  <b>Client:</b> City of Titusville, FL</p> <p><b>Key Personnel:</b> Will Lovins, Kurt Algrihm</p>	<p>AECOM provide master planning and specialized engineering services to improve water quality and pressure within the water distribution system. The work was in response to water quality challenges that resulted in customer taste and odor complaints, regulatory concerns regarding residual chlorine in the distribution system and periodic low pressure experienced during hydrant testing.</p>	<p>2019</p>
	<p><b>City of Miami Beach, 54-Inch Redundant Sanitary Sewage Force Main and Flamingo Park Neighborhood Improvement Project</b>  <b>Client:</b> City of Miami Beach, FL</p> <p><b>Key Personnel:</b> Peter May, Brian Stitt</p>	<p>AECOM was retained as specialty consultant for the development of a DCP for a 54-inch sanitary sewerage force main (FM) along Euclid Avenue, a heavily urbanized corridor in Miami Beach; perform the stormwater hydraulic analysis of the adjacent Flamingo Park neighborhood/basin that was traditionally vulnerable to flooding; and provide construction oversight of all roadway, utility and resiliency upgrades that included elevated streets, streetlighting, and civil harmonization to promote a more sustainable and pedestrian friendly neighborhood. The work was implemented using design build delivery methods in close collaboration with stakeholders.</p>	<p>2019</p>

# 4.7

# Construction Engineering and Inspection Services

Describe the CEI services your firm can provide.

The staff at AECOM provides a full complement of engineering services during construction. To meet the individual needs of each client, we can customize these construction services to provide the level of engineering/administration desired. The spectrum of our involvement ranges from office administration and resident engineering to construction management and design build. Among the services we typically provide are:

- Review of contract documents
- Contract administration
- Design review and modifications
- Bid advertisement and evaluation
- Shop drawing review
- Evaluation of contractor's qualifications
- Cost estimation
- Evaluation of alternative materials and equipment
- Equipment procurement
- Review of contractor's payment requests
- Construction scheduling and coordination
- Construction observation/inspection
- Maintenance of record data
- Respond to contractor's request for information
- Request for proposed change (RPC) processing
- Preparation of record drawings
- Final acceptance testing
- Start-up assistance
- Operation and Maintenance (O&M) manuals

A major factor in our success in the construction phase is that we not only know construction, but we are also specialists in water, wastewater, stormwater, and transportation infrastructure. Because AECOM is typically involved in all aspects of these projects from initial planning through design and construction, we have a better understanding of those elements that are critical to a successful project. And, because we know how important quality construction and equipment can be, we can make sure that the intentions of the designers are fully achieved.

### **We will be teaming up with CONSOR Engineers, LLC.**

With more than 235 CEI staff throughout Florida, CONSOR is well-positioned to provide all CEI needs to the local, state, and federal clients they serve with ample backup to ensure they can staff projects in case of an emergency.

### **Locally, CONSOR employs 24 CEI staff on the Treasure Coast, (Martin, St. Lucie, and Indian River counties), giving them more local resources than any other CEI provider.**

The proposed staff for this project includes Senior Project Engineer Etienne Bourgeois, PE. He was part of the CEI team that successfully delivered the Crosstown Parkway Project, the largest construction project ever administered by the City of Port St. Lucie. The project included more than 14,000 ft. of water and sewer lines, including a 4,200-ft. direction drill of a 24-in. water main. The CONSOR staff managed all the inspections, testing, chlorination, and certifications for the new water main and sewer main and all deflections.

CONSOR has delivered more than seven years of successful construction projects in the City of Port St. Lucie. Prior to CONSOR, Etienne Bourgeois served as the senior project engineer and EOR respectively for the Becker Road Widening project. The Becker Road project also included extensive water and wastewater construction elements. Using Etienne's design and construction background, CONSOR can provide a constructability review from an engineer who also understands the design issues and constraints.

# 4.8

# Grant & Loan Funding Support

Provide examples of grants and loans your firm can provide.

**AECOM has included The Berryhill Group on our team for Grant and Loan Funding Support.** AECOM has successfully partnered with The Berryhill Group in the past on projects for the City of Miami Beach and the City of Titusville, as well as others. The Berryhill Group's experience in working closely with local, state, and federal leaders ensures that they stay on the cutting edge of all funding sources. Their associates maintain great professional working relationships with state and federal agencies giving clients complete confidence that the success of their project is their top priority. They continually monitor available funding sources and stay abreast of changing funding program requirements.

**Don Berryhill, PE, adds 30+ years of funding expertise through his work as Bureau Chief with the Florida Department of Environmental Protection developing and managing the funding programs that serve communities throughout the state of Florida and his work in the private sector.**

Through his management work he gained knowledge of the many administrative requirements posed by state and federal funding agencies and can provide the guidance needed to assure compliance with these requirements.

The Berryhill Group's expertise includes the following types of loans and grants:

- FDEP SRF Loan Program
- FDEP Grants
- Water Management District Grants
- Federal 319 Grants
- Legislative Grants

As a member of the AECOM team, The Berryhill Group will research available grant and SRF funding, guide the City through the process, and work with members of our team with a goal of the City's project(s) being a complete success. From the planning phase of the City's projects through design, construction, and final project closeout they offer the following services:

- Advisory services for facility planning including capital financing plans.
- Assistance with Grant and low-interest SRF loan applications and supporting documents.

- Capital funds disbursements, documentation, and management.
- State and federal funding agency compliance requirements including the Davis-Bacon Act payroll reviews, DBE (if required), and AIS provisions.
- Document and record files management.

AECOM was recently successful providing support services in conjunction with the Berryhill Group, LLC to prepare loan applications and documents in support of SRF funding for the City of Titusville's Indian River Avenue Force Main Replacement project.

The AECOM Team can provide comprehensive SRF Support services as described in detail below:

- 1. Request for Inclusion:** The AECOM Team prepares requests for inclusion for planning and construction loans from the SRF in accordance with requirements of the FDEP. The AECOM Team responds to questions received on the requests for inclusion and can attend the State Revolving Loan Fund Priority list meetings on behalf of the City.
- 2. Facilities Plan:** The AECOM Team prepares a Facilities Plan to support the SRF application including the following elements: Executive Summary; Cost Comparison; Environmental Effects/Benefits; Selected Alternative; Public Participation Process; Financial Feasibility; Schedule; and Adopting Resolution. The AECOM Team will advise the City on the requirements for public notice advertising and conducting public hearings to present the Facilities Plan to the public as required by FDEP.
- 3. Planning and Construction Loan Applications:** The AECOM Team prepares planning and construction loan applications and supporting documents and exhibits and provides draft authorizing resolutions and other certifications necessary to complete the application process. The final loan applications are prepared and submitted to the FDEP and the AECOM Team responds to questions.
- 4. Construction Loan Services:** The AECOM Team answers bidder questions and provides guidance on compliance requirements of the SRF program.

Assists with supporting documentation for SRF eligible costs as required by FDEP. Prepares disbursement requests for submittal to FDEP for payment. Reviews the Contractor's weekly certified payrolls for compliance with the Davis-Bacon Act requirements. Provides instructions to the Contractor on compliance with the American Iron and Steel provisions as required by FDEP. Assists the City with the preparation of a Fiscal Sustainability Plan for the project and prepares and assists with documentation for the final administrative closeout by the FDEP.

**Additionally, AECOM has John Konkus, our legislative liaison based in Tallahassee, available to assist with funding opportunities.**

John Konkus is a government affairs and strategic development Senior Manager for AECOM. Drawing on over two decades of practical, application-based experience, John provides geopolitical expertise to the corporation and its clients.

John has worked in Washington, DC, New York, and Florida, and has decades of experience developing, implementing and managing many regulatory and legislative actions.

Immediately before joining AECOM in July 2019, John served as Deputy Associate Administrator at the U.S. Environmental Protection Agency (EPA) where he was a top advisor to two members of the President's cabinet. John directed the successful confirmation communications campaigns for both of the President's EPA Administrator nominees. He was instrumental in the development of EPA's biggest regulatory actions.

**John helped implement the first three funding rounds of the Water Infrastructure Financing Innovation Act (WIFIA).**

**John will serve as the team and the City's legislative liaison to identify, clarify and support the City and Team to respond and address upcoming legislation and regulatory changes that may impact the City. Legislations such as CS/SB 64: Reclaimed Water; Requiring certain domestic wastewater utilities to submit to the Department of Environmental Protection by a specified date a plan for eliminating non-beneficial surface water discharge within a specified time-frame. John will also support the team and the City in identifying grants and possible alternative funding under current or upcoming state and federal programs.**

# 4.9 Miscellaneous

Provide a description of additional services your firm can provide.

## PERMITTING ASSISTANCE FOR CAPITAL PROJECTS

The regulatory environment is constantly changing on a local, state, and federal level. "Streamlining" of the process has been occurring for a number of years, both between the state agencies and between the state and federal level. Still, the rules are numerous, complex, and often difficult to work with. Whether the permitting is for a new facility, a modification to an existing facility, or the renewal of an existing permit, the following steps are critical for successful acquisition of permits:

- Thorough knowledge of the regulatory rules, criteria and permits
- Pre-application meeting(s) with the applicable agencies early in the planning/design of the work
- Close communication with the owner and operators of the existing infrastructure systems in order to accurately represent the current conditions and the owner's objective in the permitting effort

The AECOM Team has extensive regulatory permitting experience with FDEP, SFWMD, USACE, FDOT as well as local authorities. Our knowledge of permit review processes is enhanced by our role as permit reviewer for many of our special district clients.

AECOM follows this approach and the effort has paid off with the recent successful permitting on a number of facilities in Florida.

## CUP, DEP OPERATING AND CONSTRUCTION PERMITS, NPDES WW PERMITTING, REUSE PERMITTING, DIW PERMITTING

Having worked for SFWMD prior to coming to AECOM, Michael Bennett, PG, works closely with SFWMD staff in the modification of existing water use permits or to renew the existing permit to ensure sufficient raw water supply is allocated to meet the City's future water supply demands. Impact analyses are completed in accordance with SFWMD's Basis of Review (BOR) generally employing the use of either analytical models or the regional calibrated 3-D MODFLOW model developed by the SFWMD. This is done to minimize costs and assists in the review and validation of the model simulation since input data to the model was developed by SFWMD staff.

AECOM has successfully used the SFWMD Surficial Aquifer Model to evaluate the potential for upward or lateral migration of higher salinity water into the existing production interval for Biscayne aquifer production wells. Both MODFLOW and SEAWAT model code are used to simulate groundwater flow and fluid density under fresh and brackish water conditions. Groundwater Vistas is used as the modeling platform to run the simulations and to process the data using vectors analysis to show ground water flow direction and magnitude. The model simulations are used to indicate minimal upward or lateral flow conditions related to the well completion depth and design withdrawal capacity for each well.

AECOM has developed excellent working relationships with the staff of the Underground Injection Control Section of FDEP and successfully obtained well construction, operational testing and long-term operation permits for deep injection well systems. In addition AECOM coordinates with the local FDEP staff during various phases of construction and during mechanical testing of the injection wells.

AECOM provides long-term support services for Class I and Class V injection well systems by providing operation permitting services which allows for long-term operations. Mechanical Integrity services are also provided, which includes the development of the testing plan, development of the technical specifications, testing oversight and reporting of testing results to FDEP.

## ENVIRONMENTAL SERVICES - PERMITTING/ WETLANDS/MITIGATION

AECOM has a strong reputation for providing efficient and effective environmental permitting services, and we understand the importance of planning, data collection, and regulatory agency coordination in the early stages of a project. We possess in-house literature and databases with the most current available information, which are used by our staff biologists to review important project-relevant information (such as listed species' utilization, soil types, land uses, and documented wetlands/other jurisdictional resources within the project area) prior to site evaluations and regulatory agency consultation. We have a highly trained biological staff who maintains positive working relationships with various regulatory resource agencies including the SFWMD, FDEP and USACE. We conduct pre-application consultations with the appropriate permitting agencies in order to establish practicable avoidance, minimization, and mitigation

measures, while maximizing design efficiency. We also coordinate with the reviewing agencies throughout the permit application review period, to obtain input from agency staff and avoid unnecessary delays in permit issuance. Upon receipt of a permit, we thoroughly review the permit conditions and provide guidance to the permittee to verify that the conditions are successfully achieved.

Our team of qualified environmental scientists have successfully designed, permitted, and monitored numerous wetland mitigation sites across the state. Our mitigation projects have ranged from restoration and enhancement of existing wetlands to creation of new freshwater and saltwater wetland habitats. Our mitigation designs include grading design, cross sectional view of mitigation site, and native planting plans. We have supervised the construction and planting of many of these sites, and visually inspected seedlings prior to planting in order to verify compliance with the permitted specifications. Our mitigation monitoring services include both qualitative and quantitative wetland and upland habitat monitoring. We prepare thorough monitoring reports

Additionally, **we can provide NPDES construction permitting services.** Karen Brandon, PE, and Principal-in-Charge, serves on the Palm Beach County Municipal NPDES Steering Committee, and keeps abreast of all permitting requirements, including TMDLs.

## **CAPACITY MANAGEMENT OPERATION MAIN PLANS (CMOM) AND SANITARY SEWER OVERFLOW RESPONSE PLANS (SSORP)**

AECOM will support the City in the review, modification, and implementation of its CMOM Programs to enhance system performance. We are very familiar with the CMOM Programs and we have very experienced staff who have successfully developed and implemented those programs throughout the state and nationwide. Our staff have been supporting Miami-Dade Water and Sewer Department (WASD) in developing, implementing and managing their CMOM Programs for over 25 years. We also assisted WASD in preparing its CMOM Self-Assessment Report. Over a two month period, we performed an exhaustive review of their capital improvement program, operations, maintenance, and management programs, and conducted extensive interviews with WASD staff from all divisions. The final report documented the status of WASD's existing CMOM programs. It also included proposed enhancements to existing programs, and recommendations for new programs. The CMOM Self-Assessment Report was utilized by WASD to negotiate the consent decree CMOM requirements that would offer the greatest benefit to the County in improving and cost-effectively operating and maintaining its wastewater collection, transmission, and treatment facilities.

In compliance with the proposed CMOM regulations, AECOM developed a SSORP for many clients, including

Miami-Dade WASD, Baltimore City DPW, the City of Austin and DC Water, which emphasized response time after initial notification had been received regarding a potential SSO. Through efforts to minimize response time, detailed procedures to contain SSOs from reaching the waters of the state or the US, and subsequent mitigation and follow-up, preliminary guidelines were developed, including 60-minute or less response times and less than one SSO per 200 miles of collection system.

## **REUSE, TMDL AND BIOSOLIDS FEASIBILITY STUDIES**

AECOM has extensive experience in reclaimed water distribution systems and has recently been involved with potable reuse projects. Our Water Quality/Treatment Technical Advisor, Chris Hill, PE, BCEE, ENV SP, is an Advisor to the WaterReuse Florida Board of Trustees and has been an active participant in the Florida Potable Reuse Commission. He is a co-author of the PRC Framework for the Implementation of Potable Reuse in Florida and a member of the PRC Emerging Constituents Sub-Team, helping to develop regulations for the implementation of potable reuse in the state.

Our South Florida Water Resources team has extensive experience with Total Maximum Daily Loads through our active membership in the Florida Stormwater Association, our representation on the Palm Beach County Municipal NPDES Steering Committee, and participation in Basin Management Action Plans.

Additionally, AECOM has significant experience in biosolids feasibility studies, management planning, and the design and construction of biosolids processing systems. We help our clients tailor the biosolids processing solution to local drivers and biosolids markets, requirements and constraints. We also consider community impacts such as odor, noise and traffic.

## **SITE PLAN REVIEW SERVICES**

AECOM has a full-service Building and Places group which provides Site Planning, Landscape Architecture, Architectural and Building design services. Our Water Business Line works with them frequently on utility site projects that require site plans, landscaping, and architectural design services such as the Town of Davie's Water Treatment Plant and Water Reclamation Facility and the City of Hialeah's Water Treatment Plant. Should the City request AECOM's assistance in reviewing site plans submitted to the City, our staff has the capabilities to perform such reviews to ensure project designs comply with City and other applicable codes.

## **PROPERTY ACQUISITION SUPPORT, EASEMENTS, R/W ACQUISITION DOCUMENTS**

In 1984, AECOM (and its corporate predecessors) began providing right of way acquisition services for governmental agencies in Florida. Since then, we have acquired more than 4,900 parcels and relocated over 3,900 businesses and residential households, primarily in



southeast Florida for the Florida Department of Transportation. We have held “on call” districtwide contracts with FDOT – District 4 since 1996 that included being the embedded consultant performing such tasks in Acquisition, Relocation, Property Management, Suit Preparation and served in mentorship roles for new FDOT right of way staff. Over the past several years, AECOM has provided acquisition and relocation services for FDOT for the following projects:

- Kings Highway in St. Lucie County
- SR 714/Martin County Highway
- I-95 at Central Blvd. in Palm Beach County
- Linton Blvd .in Palm County
- Krome Avenue in Miami- Dade County
- Palmetto Expressway-Seg. 1 in Miami-Dade County
- Several Conceptual Stage Relocation Plans for SR 826 and NW 27th Avenue (Miami-Dade County)
- Value Engineering Workshop and Joint-Use Coordinator for FDOT District 4

Our list of major projects since our initial I-595 Port Everglades Expressway project includes:

- Andrews Avenue Extension
- Crosstown Parkway Extension
- Dixie Highway
- Griffin Road
- Hallandale Beach Boulevard
- Indian Street Bridge Relocation
- Indiantown Road
- Kanner Highway
- Miami Intermodal Center
- Palm Beach International Airport Interchange
- Pines Boulevard
- SR 7 in Broward and Palm Beach Counties
- SR 710/Martin L. King Jr. Blvd. Relocation

## **DISASTER RECOVERY- FEMA, NRCS, FHWA**

Our staff in south Florida has extensive experience assisting our municipal and special district clients with FEMA and NRCS Disaster Recovery grants. We are familiar with the steps in the process and the documentation required for reimbursement.

## **O&M MANUALS**

AECOM has the expertise to prepare O&M Manuals for water and wastewater facilities. This is a service we provide to our municipal utility clients as part of the staff training and commissioning process for new equipment.

# 4.10

# Ability to Meet Schedule and Budget Requirements

Describe how you manage projects in order to meet schedule and budget requirements.

## MEETING PROJECT SCHEDULES

To ensure that all work is completed on time, a dynamic schedule is established, and deliverables are identified at the beginning of each project. The identification of schedule activities and significant milestones for each task are provided by the individual Task Managers based on their understanding of the project scope and their prior experience on similar projects.

All major project activities as well as the deliverables are shown on the schedule. Deliverable submittal dates and major project events are classified as project milestones. The activities required to meet these milestone dates are identified and are logically scheduled to support their achievement. Items such as report/ specification outlines and drawing lists as well as drawing mockups also are developed. These items, along with action lists, are monitored and updated in conjunction with the schedule as tangible means of tracking the progress of individual tasks/ phases and identifying/reacting to problem areas. Schedule tracking is accomplished by comparing project status to planned milestones.

Various scheduling tools are available, however, we find that simple bar charts are adequate for schedule control of most projects. Project team understanding of what is required is the best resource for keeping a project on schedule. Monthly project schedule reviews by the project manager and team will be a key to keeping the team and the City informed of progress and identifying any deviations from the plan. The vast majority of our projects are completed on schedule and within budget. When projects are delayed, it is typically due to unforeseen circumstances. Modifications to project budgets are only requested when there is clearly a change in project services.

Scheduling software is one of our powerful project management tools, however, we believe there is no substitute for timely and effective communication for keeping projects on track. Our Project Manager, Vaughn Hayduk, is committed to keeping open lines of communication with the City and the rest of the project team. She is the point of contact to ensure the City's appointed Project Manager is aware of the progress being made and all issues requiring the City's attention are discussed in a timely manner and brought to a quick resolution so as not to affect the overall project schedule.

## COMPLETING PROJECTS WITHIN BUDGET

Controlling costs is one of the top priorities on all AECOM projects. Simply stated, AECOM is successful on a project by becoming the client's budget watchdog. Only if we budget properly and control costs can the projects be mutually beneficial. AECOM maintains rigorous internal administrative procedures and systems to monitor the labor utilization and financial expenditures of each project. The internal systems enable the project manager to evaluate the timeliness and cost-effectiveness of technical progress at any time on any assignment.

Our system is designed to assist the project manager in control of the scheduling, technical, manpower, and financial aspects of their assignments. The system provides the project manager real-time financial information for a particular week (through Friday) which is available the following Monday. The system is in place at all AECOM office locations and supplies the following information on a weekly basis:

- Project personnel working on the task
- Office location
- Hours billed for that week
- Task and accrued cost/hours-to-date
- Labor amount (percent complete)
- Equipment costs
- Direct expenses
- Total expenditures

Standard summary documents produced include the Weekly Job Detail Report and the Weekly Job Summary Report. These reports are two of several financial reports that can be produced as a function of the specific requirements of the project. The Job Summary Report, a detailed report issued on a weekly basis, contains labor charges, expense charges, equipment charges, to-date budgets, and budget-to-actual comparisons. The to-date amounts are displayed by type (labor, expenses, and equipment) and summarized. Weekly monitoring of project expenditures allows the Project Manager to take corrective action if the expenditures are not consistent with current project activities and milestones.

It is also extremely important that projects we design for the City also meet the established construction budgets. AECOM maintains a large database of local construction costs to develop solid construction cost estimates.

We use this data to continuously confirm that our designs are within your construction budgets. These cost confirmations begin during the development of the Preliminary Engineer Reports (PER) all the way through the development of final bidding documents.

**AECOM also will utilize an internal value engineering process during the development of the design to get the City the most project for the least amount of money.**

Critical to keeping a project on-schedule and under budget is having the resources and ability to execute and complete the work. AECOM has 1,151 staff in Florida, representing a variety of disciplines. One of the advantages of being such a large firm with great depth of resources is the ability to accept new projects while honoring our commitments to our existing ones. We have an extensive pool of available, highly qualified professionals who can be rapidly deployed to assist in the event of unforeseen project conditions or the unlikely event of staff loss.

**We know how important subconsultant management is to meeting project schedules.** AECOM will be responsible for overall project management, administration, and reporting, including management of our subconsultants. We have specifically selected Northstar Geomatics, The Berryhill Group and Ardaman and Associates, Inc. because of our longstanding relationship with them and their ability to produce high quality work. CONSOR was especially selected because of their experience providing CEI services to the City. Reporting requirements, communication requirements, quality assurance, and cost and schedule control will be implemented through AECOM. Technical deliverables will be submitted to AECOM for review, just as our technical inputs will be subjected to review, prior to incorporation into reports.

**Truth-In-Negotiation Certificate**

**05**

Attachment J - Truth In Negotiation



TRUTH-IN-NEGOTIATION CERTIFICATE

Solicitation# 20210093

Pursuant to Section 287.055(5)(a), Florida Statutes, for any lump-sum or cost-plus-a-fixed fee professional services contract over the threshold amount provided in Section 287.017, Florida Statutes for CATEGORY FOUR, the City of Port St. Lucie, Florida requires the Consultant to execute this certificate and include it with the submittal of the Technical Proposal, or as prescribed in the contract advertisement.

The Consultant hereby certifies, covenants, and warrants that wage rates and other factual unit costs supporting the compensation for this project's agreement are accurate, complete, and current at the time of contracting.

The Consultant further agrees that the original agreement price and any additions thereto shall be adjusted to exclude any significant sums by which the City determines the agreement price was increased due to inaccurate, incomplete, or non-current wage rates and other factual unit costs. All such agreement adjustments shall be made within (1) year following the end of the contract. For purposes of this certificate, the end of the agreement shall be deemed to be the date of final billing or acceptance of the work by the City, whichever is later.

AECOM Technical Services, Inc.

Name of Firm

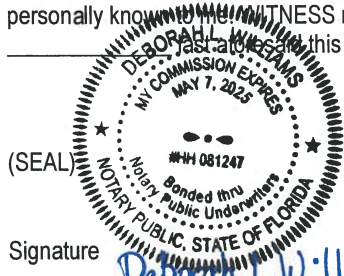
Karen Brandon

President or Designee (Printed)

*Karen Brandon*

President or Designee (Signed)

The foregoing instrument was acknowledged before me by Karen Brandon who is personally known to me. I, the undersigned, do hereby certify that I am a Notary Public for the State of Florida, and I witness my hand and official seal in the \_\_\_\_\_, \_\_\_\_\_, this 16<sup>th</sup> day of August, 2021.



Signature

*Deborah L. Williams*

Notary Name (typed or printed)

Deborah L. Williams

Notary Name (signed)

**E-Verify Form**

**06**

eRFP CCNA # 20210093



"A City for All Ages"

E-Verify Form
Attachment G - E-Verify Form

Supplier/Consultant acknowledges and agrees to the following:

- 1. Shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Supplier/Consultant during the term of the contract; and
2. Shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

E-Verify Company Identification Number 1349701
Date of Authorization 10/11/2018
Name of Contractor AECOM Technical Services, Inc.
Name of Project Continuing Engineering Services for Utility Projects
Solicitation Number (If Applicable) 20210093

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on August 16, 2021 in West Palm Beach (city), Florida (state).

[Handwritten Signature]

Signature of Authorized Officer

Karen Brandon, Associate Vice President/Authorized Signatory

Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME

ON THIS THE 16th DAY OF August, 2021

NOTARY PUBLIC Deborah L. Williams

My Commission Expires: 05/07/25



**Drug Free Workplace Form**

**07**




Attachment I - Drug Free Workplace Form  
**DRUG-FREE WORKPLACE FORM**  
**eRFP # 20210093**  
**Continuing Engineering Services for Utility Projects**

The undersigned Contractor in accordance with Florida Statute 287.087 hereby certifies that

AECOM Technical Services, Inc. does:  
 (Name of Business)

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under proposal a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 Florida Statutes or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

  
 Bidder's Signature  
 August 16, 2021  
 Date:

**Port St. Lucie Location Form**

**08**



**SUPPLIER LOCATION CERTIFICATION**  
Attachment D - PSL Location Form

The undersigned, as a duly authorized representative of the Supplier listed herein, certifies to the best of their knowledge and belief, that the Supplier's location is correctly reflected based upon the below information. For purposes of this section, "Location" shall mean a business which:

- a) How far is the Supplier's fixed office or distribution point located from [City Hall](#); and
- b) Is the principal offeror who is a single offeror; a business which is the prime contractor and not a subcontractor; or a partner or joint venturer submitting an offer in conjunction with other businesses.

Complete the following and upload this document and the Google Maps print out to the required sourcing platform:

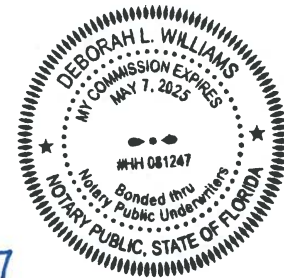
Business Name: AECOM Technical Services, Inc.	
Current Local Address: 2090 Palm Beach Lakes Blvd. Suite 600 West Palm Beach, FL 33409	Phone: 561.684.3375
Length of time at this address: 23 years	Fax: N/A
Please provide your prior business address if the above address has been for less than one (1) year, prior to the issuance of this solicitation.	
N/A	
Length of time at this address: N/A	
Home Office Address: Headquarters: 300 South Grand Avenue, 9th Floor Los Angeles, CA 90071	Phone: 213.593.8100
Length of time at this address: 5 years	Fax: 213.593.8178

(Signed) *Kara Brandon*  
 (Title) Associate Vice President/Authorized Signatory

STATE OF FLORIDA }  
COUNTY OF ST. LUCIE} SS:

The foregoing instrument was acknowledged before me this (Date) August 16, 2021  
 by: Karen Brandon who (s personally known to me or who has produced  
 \_\_\_\_\_ as identification and who did (did not) take an oath.

Deborah Williams Deborah Williams Commission No. 44 081247  
 Notary (print & sign name)



**Cone of Silence Form**

**09**

## Attachment E - Cone of Silence Form

**NOTICE TO ALL PROPOSERS:**

**To ensure fair consideration is given for all Proposers, it must be clearly understood that upon release of the proposal and during the proposal process, firms and their employees of related companies as well as paid or unpaid personnel acting on their behalf shall not contact or participate in any type of contact with City employees, department heads or elected officials, up to and including the Mayor and City Council. The "Cone of Silence" is in effect for this solicitation from the date the solicitation is advertised on DemandStar, until the time an award decision has been approved by City Council and fully executed by all parties. Information about the Cone of Silence can be found under the [City of Port St. Lucie Ordinance 20-15, Section 35.13](#). Contact with anyone other than the Issuing Officer may result in the vendor being disqualified. All contact must be coordinated through Mr. Jason Bezak, Issuing Officer, for the procurement of these services.**

All questions regarding this Solicitation are to be submitted in writing to Jason Bezak, Procurement Agent I with the Procurement Management Department via e-mail [JBezak@cityofpsl.com](mailto:JBezak@cityofpsl.com), or by phone 772-344-4068. Please reference the Solicitation number on all correspondence to the City.

All questions, comments and requests for clarification must reference the Solicitation number on all correspondence to the City. Any oral communications shall be considered unofficial and non-binding.

Only written responses to written communication shall be considered official and binding upon the City. The City reserves the right, at its sole discretion, to determine appropriate and adequate responses to the written comments, questions, and requests for clarification.

\*NOTE: All addendums and/or any other correspondence before bid close date (general information, question and responses) to this solicitation will be made available exclusively through the [DemandStar's Website](#) for retrieval. All notice of intent to award documentation will be published on the [City Clerk's Website](#). Proposers are solely responsible for frequently checking these websites for updates to this solicitation.

**I understand and shall fully comply with all requirements of City of Port. St. Lucie Ordinance 20-15, Section 35.13.**

Typed Name: Karen Brandon

Signed: 

Company and Job Title: AECOM Technical Services, Inc., Associate Vice President/Authorized Signatory

Date: August 16, 2021

## Consultant's Code of Ethics

# 10



"A City for All Ages"

**eRFP #20210093**

**ATTACHMENT F - CONSULTANT'S CODE OF ETHICS**

The City of Port St Lucie ("City), through its Procurement Management Department ("Procurement Management Department") is committed to a procurement process that fosters fair and open competition, is conducted under the highest ethical standards and enjoys the complete confidence of the public. To achieve these purposes, Procurement Management Department requires each vendor who seeks to do business with the City to subscribe to this Consultant's Code of Ethics.

- ◆ A Consultant's bid or proposal will be competitive, consistent and appropriate to the bid documents.
- ◆ A Consultant will not discuss or consult with other Vendors intending to bid on the same contract or similar City contract for the purpose of limiting competition. A Vendor will not make any attempt to induce any individual or entity to submit or not submit a bid or proposal.
- ◆ Consultant will not disclose the terms of its bids or proposal, directly or indirectly, to any other competing Vendor prior to the bid or proposal closing date.
- ◆ Consultant will completely perform any contract awarded to it at the contracted price pursuant to the terms set forth in the contract.
- ◆ Consultant will submit timely, accurate and appropriate invoices for goods and/or services actually performed under the contract.
- ◆ Consultant will not offer or give any gift, item or service of value, directly or indirectly, to a City employee, City official, employee family member or other vendor contracted by the City.
- ◆ Consultant will not cause, influence or attempt to cause or influence, any City employee or City Official, which might tend to impair his/her objectivity or independence of judgment; or to use, or attempt to use, his/her official position to secure any unwarranted privileges or advantages for that Vendor or for any other person.
- ◆ Consultant will disclose to the City any direct or indirect personal interests a City employee or City official holds as it relates to a Vendor contracted by the City.
- ◆ Consultant must comply with all applicable laws, codes or regulations of the countries, states and

localities in which they operate. This includes, but is not limited to, laws and regulations relating to environmental, occupational health and safety, and labor practices. In addition, Consultant must require their suppliers (including temporary labor agencies) to do the same. Consultant must conform their practices to any published standards for their industry. Compliance with laws, regulations and practices include, but are not limited to the following:

- Obtaining and maintaining all required environmental permits. Further, Consultant will endeavor to minimize natural resource consumption through conservation, recycling and substitution methods.
- Providing workers with a safe working environment, which includes identifying and evaluating workplace risks and establishing processes for which employee can report health and safety incidents, as well as providing adequate safety training.
- Providing workers with an environment free of discrimination, harassment and abuse, which includes establishing a written anti-discrimination and anti-bullying/harassment policy, as well as clearly noticed policies pertaining to forced labor, child labor, wage and hours, and freedom of association.

Name of Organization/Proposer AECOM Technical Services, Inc.

Signature *Karen Brandon*

Printed Name and Title Karen Brandon, Associate Vice President/Authorized Signatory

Date August 16, 2021

DISCLAIMER: This Code of Ethics is intended as a reference and procedural guide to contractors. The information it contains should not be interpreted to supersede any law or regulation, nor does it supersede the applicable contractor contract. In the case of any discrepancies between it and the law, regulation(s) and/or contractor contract, the law, regulatory provision(s) and/or vendor contract shall prevail.



## Non-Collusion Affidavit

11

Attachment H - Non-Collusion Affidavit



"A City for All Ages"

**NON-COLLUSION AFFIDAVIT**

**Solicitation # 20210093**

**Continuing Engineering Services for Utility Projects**

State of Florida

County of Palm Beach }

Karen Brandon, being first duly sworn, disposes and says that:

(Name/s)

Associate Vice President/  
Authorized Signatory

1. They are Authorized Signatory of AECOM Technical Services, Inc. the Proposer that

(Title)

(Name of Company)

has submitted the attached PROPOSAL;

2. He is fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such PROPOSAL;

3. Such Proposal is genuine and is not a collusive or sham Proposal;

4. Neither the said Proposer nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Proposer, firm or person to submit a collusive or sham Proposal in connection with the contract for which the attached proposal has been submitted or to refrain from proposing in connection with such Contract or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm or person to fix the price or prices in the attached Proposal or of any other Proposer, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Port St. Lucie or any person interested in the proposed Contract; and

5. The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

(Signed) *Karen Brandon*

(Title) Associate Vice President/Authorized Signatory



"A City for All Ages"

STATE OF FLORIDA }  
COUNTY OF ST. LUCIE } SS:

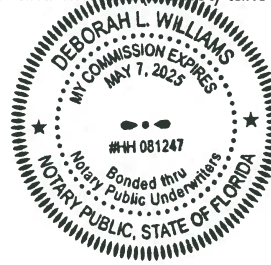
The foregoing instrument was acknowledged before me this (Date) 08/16/21

by: Karen Brandon who is personally known to me or who has produced  
\_\_\_\_\_ as identification and who ~~did~~ (did not) take an oath.

Commission No. HH081247

Notary Print: Deborah L. Williams

Notary Signature: Deborah L. Williams



**Consultant General Information  
Worksheet**

**12**



"A City for All Ages"

## CONTRACTOR'S QUESTIONNAIRE

eRFP # 20210093

### Solicitation Name: Continuing Engineering Services for Utility Projects

It is understood and agreed that the following information is to be used by the City of Port St. Lucie to determine the qualifications of Contractors to perform the work required. The Contractor waives any claim against the City that might arise with respect to any decision concerning the qualifications of the Consultant.

The undersigned attests to the truth and accuracy of all statements made on this questionnaire. Also, the undersigned hereby authorizes any public official, Consultant, surety, bank material or equipment manufacturer, or distributor, or any person, firm, or corporation to furnish the City of Port St. Lucie any pertinent information requested by the City deemed necessary to vary the information on this questionnaire.

1. **ORGANIZATIONAL PROFILE**- COMPANY NAME: AECOM Technical Services, Inc.

PHYSICAL ADDRESS: 2090 Palm Beach Lakes Blvd. Suite 600, West Palm Beach, FL 33409

MAILING ADDRESS: 2090 Palm Beach Lakes Blvd. Suite 600, West Palm Beach, FL 33409

TELEPHONE NUMBER: 561.684.3375

FAX NO. N/A

CONTACT PERSON Karen Brandon

E-MAIL : karen.brandon@aecom.com

Is the firm incorporated?  Yes  No If yes, in what state? Provide a list of officers for this entity. [Please see page 66](#)

2. **COMPLETION OF FORM** - An authorized representative of the firm offering this Proposal must complete this form in its entirety. Terms entered herein shall not be subject to withdrawal or escalation by Contractor. The City reserves the right to hold proposals for a period not to exceed one hundred twenty (120) calendar days after the date of the proposal opening stated in the Invitation to Proposal before awarding the Contract. Contract award constitutes the date that City issues an executed Purchase Order.
3. **CONTRACT** - Contractor agrees to comply with all requirements stated in the specifications for this RFP.
4. **AGREEMENT** - Contractor agrees to comply with all requirements stated in the specifications for this RFP.

### **CERTIFICATION:**

This RFP is submitted by: Name (print) Karen Brandon who is an officer of the above firm duly authorized to sign proposals and enter into contracts. I certify that this solicitation



"A City for All Ages"

response is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a proposal for the same materials, supplies, or equipment, and is in all respects fair and without collusion or fraud.

The Contractor understands that information contained in this Solicitation Reply will be relied upon by City in awarding the proposed Contract and such information is warranted by the proposer to be true. The undersigned Contractor agrees to furnish such additional information, prior to acceptance of any solicitation relating to the qualifications of the proposer, as may be required by the City.

I certify that the information and responses provided on this Solicitation are true, accurate and complete. The City may contact any entity or reference listed in this Proposal. Each entity or reference may make any information concerning the Contractor available to the City.

I agree to abide by all conditions of this RFP:

*Kana Brandon*

Associate Vice President/Authorized Signatory

Signature

Title

If a corporation renders this Proposal, the corporate seal attested by the secretary shall be affixed below. Any agent signing this Proposal shall attach to this form evidence of legal authority.

**Witnesses:**

**If Partnership:**

\_\_\_\_\_  
Print name

\_\_\_\_\_  
Print Name of Firm

\_\_\_\_\_  
Print name

By: \_\_\_\_\_  
(General Partner)

**If Individual:**

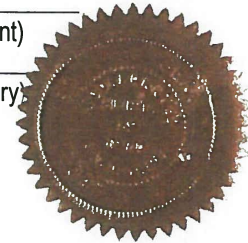
**If Corporation:**  
AECOM Technical Services, Inc.  
\_\_\_\_\_  
Print Name of Corporation

\_\_\_\_\_  
Signature

By: \_\_\_\_\_  
(President)

\_\_\_\_\_  
Print Name

Attest: *M-K*  
Manav Kumar (Secretary)





AECOM Technical Services, Inc. 213.593.8100 tel  
300 South Grand Avenue 213.593.8730 fax  
9<sup>th</sup> Floor  
Los Angeles, CA 90071  
www.aecom.com

**SECRETARY’S CERTIFICATE**

**AECOM TECHNICAL SERVICES, INC.  
a California corporation**

I, Manav Kumar, DO HEREBY CERTIFY that I am the duly elected and acting Secretary of AECOM Technical Services, Inc., a corporation organized under the laws of the State of California (“ATS” or “Corporation”), and the keeper of its records and corporate seal.

I FURTHER CERTIFY that ATS’s full legal address is c/o CT Corporation System, 818 West 7<sup>th</sup> Street, Los Angeles, CA 90017-0000 and that the Corporation’s principal place of business is 300 South Grand Avenue, 9<sup>th</sup> Floor, Los Angeles, California 90071.

I FURTHER CERTIFY that pursuant to the Written Consent of the Board of Directors of ATS, adopted on June 7, 2021, and attached hereto as Exhibit A, Karen Diane Brandon has signatory authority for ATS and is authorized to execute contracts and other documents on behalf of the Corporation.

IN WITNESS WHEREOF, I have subscribed my name and affixed the seal of the Corporation, this 28th day of July, 2021.

Manav Kumar  
Secretary



**EXHIBIT A**

**UNANIMOUS ACTION OF THE BOARD OF DIRECTORS  
OF  
AECOM TECHNICAL SERVICES, INC.**

Excerpt

The undersigned, being all the members of the Board of Directors of AECOM TECHNICAL SERVICES, INC. (the "Corporation"), a California corporation, hereby take the following action:

**RESOLVED:** That, "the following U.S. based persons are designated with authority by the Board of Directors to execute contracts and other legal documents on behalf of the Corporation within the boundaries of specific Regions and Business Lines as noted and effective as of the dates set forth below:"

Effective June 7, 2021:

Last Name	First Name	Region	Area/Market Sector	Business Line
Brandon	Karen Diane	Southeast	Florida	Water

IN TESTIMONY WHEREOF, all the Directors have hereunto set their hands this 7th day of June, 2021.



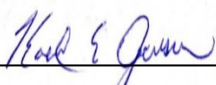

---

Keenan Driscoll




---

Jeffrey Rosenstein




---

Karl Jensen



**Is the firm incorporated? Yes--No If yes, in what state?**

Yes, AECOM Technical Services, Inc. was incorporated in the state of California on 09/29/1970.

**Provide a list of officers for this entity.**

***Directors***

Jeffrey Rosenstein; Keenan Driscoll; and Karl Jensen.

***Officers***

Karl Jensen – President; Keenan Driscoll – CFO & Treasurer; and Manav Kumar - Secretary.

**Judgements from Lawsuits  
in the Last Five (5) Years**

**13**

### AECOM Technical Services, Inc. – Litigation History (5 Years)

AECOM Technical Services, Inc. (“ATS”) is a large design, engineering, planning and related professional services company that executes thousands of projects annually. As with any large services company, from time to time, ATS is involved in claims and litigation, many of which involve third party personal injury and property damage claims. However, we strive to avoid litigation and have a risk management program in place that includes early recognition of situations that might give rise to a claim, open lines of communication and proactive dispute resolution.

Upon knowledge and belief, formed after reasonable inquiry, ATS has been involved in the disclosed litigation over the past five (5) years related to the performance of professional engineering, design, and construction services in the U.S. None of our current claims could reasonably be expected to have a material adverse effect on ATS or its ability to perform under the contract contemplated by the proposal. If you require additional information, please contact Lusanna Ro, V.P., and Assistant General Counsel, DCS Americas, at Lusanna.Ro@aecom.com.

Claimant Name & Case Number	Date Filed & Venue	Status	Claim Description
Flatiron West, Inc. v. City of Oakland v. AECOM  Case No. RG19041029	January 29, 2021  County of Alameda, Rene C. Davidson Court House	Pending	The contractor (Flatiron West) has sued the City of Oakland for unpaid fees. The City contends that the unpaid fees were incurred as a result of delays and errors by the Contractor while contemporaneously cross-complaining against the ATS/TY Lin Joint Venture, and ATS and TY Lin individually (collectively the “JV”), that any such delays not caused by the Contractor, are the result of professional negligence on the part of the JV.
Colonial Pipeline Company v. Metropolitan Nashville Airport Authority and AECOM Technical Services, Inc.  Case No. 3:20-cv-00666	July 31, 2020  United States District Court for the Middle District of Tennessee Nashville Division	Pending	Cody Mitchell is a seconded employee at the Nashville Airport (MNA) under our Staff Augmentation contract. One of Cody’s responsibilities as directed by MNA was to be a resource to TDOT for their work regarding relocation of an adjacent State Route. As a part of the TDOT work, they requested access inside the Airport Operations Area (AOA) for investigative drilling. As TDOT’s designated liaison, Cody was asked to schedule a runway closure, and make arrangements for the drilling. According to GIS information provided by the airport, Colonial’s pipeline appeared to be 80 feet away. When TDOT began to drill they hit Colonial’s pipeline resulting in a spill. Colonial is suing for the clean-up costs.
United States of America v. AECOM, Emergency Response Program Management Consultants, AECOM Technical Services, Inc., AECOM Recovery, and Louisiana Department of Education	July 28, 2020  Eastern District of Louisiana	Pending	AECOM project specialists are alleged to have inflated estimates in project worksheets prepared for FEMA after Hurricane Katrina, thereby causing FEMA to obligate more funding for disaster victims.

Case No. 2:16-cv-15092-EEF-KWR			
LLS, PLLC d/b/a Manor Kids Dentist v. Shadowglen Development Corporation v. Wurzel Builders, Ltd.  Case No. D-1-GN-19-003936	July 17, 2020  District Court, 261 <sup>st</sup> Judicial District, Travis County, Texas	Pending	Tenant in commercial development alleges negligence in the drainage design as lead to flooding.
Bizzack Construction, LLC v. AECOM Technical Services, Inc. et al.  Case No. 5:20-cv-00084-KKC	February 13, 2020  U.S. District Court Eastern District of Kentucky	Pending	Contractor claims additional costs alleged to arise from errors in design of a bridge.
AECOM Technical Services, Inc. v. Flatiron   AECOM LLC  Case No. 1:19-CV-02811-WJM-KLM	October 2, 2019  District of Colorado	Pending	Contract and professional negligence dispute.
SJTA v. Sambe v. AECOM et al.  Case No. ATL-L-001012-18	September 4, 2019  Superior Court of New Jersey, Atlantic County	Pending	AECOM was the designer of record for the Atlantic City International Airport Aircraft Rescue and Firefighting Station. The building is a two story 40,000 square foot building. SJTA, AECOM's client, has sued Sambe Construction, the construction contractor, and in turn Sambe has sued all contractors and designers on the project. Allegations in the complaint pertain to leak activities and claims related to the HVAC system.
County of San Bernardino v. Skanska USA Civil West, et al.  Case No. CIVDS1913509	May 29, 2019  Superior Court of San Bernardino County, California	Pending	Complaint alleging defective and non-conforming work which resulted in construction related issues on a railroad grade separation project in Devore, San Bernardino County.
LM Heavy Civil Construction, LLC v. Port of Palm Beach District  Case No. 50217CA005376	May 10, 2019  Palm Beach County, Florida	Settled April 27, 2021	Port received claim from its contractor alleging delays and disruptions due to errors in design. Port denies the contractor's allegations but to the extent it if found liable alleges that AECOM should be liable.
Shop-A-Minit Markets Family Partnership v. 7-11, Inc., Antea Group, AECOM, Enviroprobe Integrated Solutions, Inc.  Case No. 19-C-251	March 19, 2019  Circuit Court of Kanawha County, West Virginia	Pending	Plaintiff alleges damages incurred to property during the removal of an underground gas storage tank on the property.
Bilmar Limited Partnership v. 7-11, Inc., Antea Group, AECOM, Kevin Booten, Enviroprobe Integrated Solutions, Inc.  Case No. 19-C-249	March 19, 2019  Circuit Court of Kanawha County, West Virginia	Pending	Plaintiff alleges damages incurred to property during the removal of an underground gas storage tank on the property.
JH Kelly, LLC v. AECOM Technical Services, Inc.	January 29, 2019	Pending	Claims for cost overruns and delays arising out of an EPC project to

Case No. 192600	Shasta County Superior Court, California		replace compressor station on PG&E's gas transmission line.
AECOM Technical Services, Inc. v. Professional Service Industries, Inc. Case No. 8:18-c-v-2981-T-02TGW	November 14, 2018 United States District Court, Middle District of Florida, Tampa Division	Pending	Damages for breach of contract.
Slade Jordan & JWS Restoration v. AECOM Technical Services, Inc. Case No. 19963	October 26, 2018 District Court, Nolan County, Texas	Dismissed July 2019	Multi-plaintiff PBC exposure case related to a remediation project at an abandoned refinery in West Texas owned by Anadarko Petroleum Corporation. Anadarko hired ATS to serve as "Compliance Supervisor" to design, engineer, implement and supervise compliance with safety standards.
Shop-A-Minit Markets Family Partnership v. 7-11 Inc., Antea Group, AECOM, Kevin Booten, Enviroprobe Integrated Solutions, Inc. Case No. 18-C-1113	August 31, 2018 Circuit Court of Kanawha County, West Virginia	Pending	Plaintiff alleges damages incurred to property during the removal of an underground gas storage tank on the property.
Central Texas Highway Constructors, LLC v. AECOM Technical Services, Inc. Case No. 23881/MK	August 18, 2018 International Court of Arbitration	Pending	Professional negligence and breach of contract dispute arising from design services on a transportation project.
East Kentucky Power Cooperative v. AECOM Technical Services, Inc. Case No. 5:18-cv-00437-JMH	June 7, 2018 E.D. Kentucky	Pending	East Kentucky Power Cooperative alleges that ATS did not design an external haul road used to access the bottom of EKPC's Spurlock Station coal ash landfill in Maysville, Kentucky in accordance with the parties' contract or professional standards. ATS disputes EKPC's allegations and contends that ATS acted consistent with the applicable industry standard of care and scope of work authorized by EKPC.

*\*The above table was comprised from identifiable and retrievable corporate records for AECOM Technical Services, Inc. and excludes (i) claims involving personal injury and property damage claims not otherwise connected with the claims identified, (ii) employment-related matters, and (iii) subsidiaries and affiliates of AECOM Technical Services, Inc.*

June 2021

## Exceptions to Contract

14

## Exceptions

ATS Technical Services, Inc. (“ATS”) has reviewed the City of Port St. Lucie’s Request for Proposal, RFP 20210093 for Continuing Engineering Services for Utility Projects and has identified the following specific terms that ATS will want to negotiate prior to signing the Agreement. ATS believes it has captured the most significant issues; however, final review and negotiations of the Agreement may identify other terms that require modification to properly interface with the terms negotiated below, or otherwise.

ATS is confident after reviewing the RFP documents that the parties can reach a mutually acceptable contract that promotes an efficient and successful project. We are ready and eager to work with the City’s project team, and we look forward to discussing these matters with you in further detail. Our general comments are as follows:

**Scope of Work:** ATS requests the opportunity to discuss clarifications and/or details depending upon the final scope in the resultant contract.

**Other Contractor Responsibilities:** ATS agrees to assist the City in Contractor claims/litigation; however, it is assumed that does not include expert testimony unless related to Contractor’s legal obligation to assist the City in defending a claim that arises out of Contractor’s work product.

**Payment Terms:** Request adding the following to the payment section “City shall notify Contractor within ten (10) days of the receipt of the invoice of any disputed items. Such notice must be accompanied by a detailed description of any disputed items and include supporting documentation. If such notice is not provided within ten (10) days, City waives its rights to dispute the invoice.”

**Indemnity:** ATS proposes the agreement include an indemnity that complies with Florida Statute 725.08 similar to “Contractor agrees to indemnify City, its officers, directors and employees, from third party claims of loss or damage, exclusive of defense obligations, for bodily injury or property damage (“Claims”), to the proportional extent caused by Contractor’s negligence or willful misconduct.” In addition, we request the addition of Florida Statute 558 as follows: “IN ACCORDANCE WITH SECTION 558 ET SEQ OF THE FLORIDA STATUTES AND TO THE FULLEST EXTENT PERMITTED BY LAW, OWNER ACKNOWLEDGES AND AGREES THAT NO INDIVIDUAL EMPLOYEE OR AGENT OF PROFESSIONAL SHALL BE HELD INDIVIDUALLY LIABLE FOR DAMAGES RESULTING FROM NEGLIGENCE OCCURRING WITHIN THE SCOPE AND COURSE OF THIS AGREEMENT.

**Consequential Damages:** Request the contract contain a provision in which each party waives, on a reciprocal basis, the right to recover any consequential, indirect, incidental, special and related damages.

**Limitation on Liability:** Request discussion to reach a mutually agreeable limitation of liability for both parties.

**Insurance:** We see certain issues with some of the proposed insurance language and look forward to negotiating mutual terms if we are fortunate enough to be awarded the contract.

**Force Majeure:** ATS requests incorporation of a new Acts of God provision similar to: Neither Party shall be responsible for a delay or disruption in, or inability to provide its respective performance under this Agreement, other than a delay in payment for Services already performed, if such delay is caused by events or contingencies, existing or future, beyond the reasonable control of the claiming Party, including "acts of God," abnormal weather conditions or other natural catastrophes, war (whether declared or not), terrorism, sabotage, computer viruses, civil unrest, strikes, lockouts or other industrial disturbances, pandemics, epidemics, health emergencies, virus (e.g., SARS Cov-2), disease (e.g. COVID-19), plague, changes in law or regulations, quarantine, travel restrictions, discovery of hazardous materials, differing or unforeseeable site conditions, acts of governmental agencies or authorities (whether or not such acts are made in response to other Force Majeure Events), or any other events or circumstances not within the reasonable control of the party affected, whether or not of a similar kind or nature to any of the foregoing (a "Force Majeure Event"). The Party seeking application of this provision shall notify the other Party in writing promptly upon learning of the impact of the Force Majeure Event upon the notifying Party's performance of its obligations under this Agreement. Upon the occurrence of a Force Majeure Event, CONTRACTOR shall be entitled to an equitable adjustment to the project schedule and compensation sufficient to compensate CONTRACTOR for any increase in the time or costs necessary to perform the Services under this Agreement. Should a Force Majeure Event substantially prevent or be reasonably likely to substantially prevent CONTRACTOR's performance of the Services for more than thirty (30) days, then CONTRACTOR shall be entitled to terminate this Agreement without breach. In case of such termination, CONTRACTOR shall be entitled to compensation for those Services performed as of the date of termination.

**Inspection and Correction of defects:** The full extent of Contractor's responsibility with respect to the Services shall be to perform in accordance with the Standard of Care and to remedy any material deficiencies or defects in the Deliverables at Contractor's own expense, provided that Contractor is notified by City, in writing, of any such material deficiency or defect within a reasonable period after discovery thereof, but in no event later than 90 days after Contractor's completion of the Services.

**Standard of Care:** Request that a clear standard of care be inserted into contract similar to the following: "Contractor shall perform the Services in accordance with the degree of professional skill, quality and care ordinarily exercised by members of the same profession currently practicing in the same locality under comparable circumstances and as expeditiously as is consistent with professional skill and the orderly progress of the Project. CONSULTANT MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY



**IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, INFORMATIONAL CONTENT OR OTHERWISE.**

**Termination:** In the event the City considers terminating Agreement prior to completion for default, Contractor should not be held liable for the accuracy or reliability of any partially completed work.

**Retainage:** Request that any provision requiring the withholding of retainage be removed, as industry standards are to not withhold retainage on professional services.

**Miscellaneous:**

- Estimating Services – request provision similar to the following be inserted into resulting contract: “Estimates, opinions of probable construction or implementation costs, financial evaluations, feasibility studies or economic analyses prepared by Contractor will represent its best judgment based on its experience and available information. The City recognizes that Engineer has no control over costs of labor, materials, equipment or services furnished by others or over market conditions or contractors’ methods of determining prices, and that any evaluation of a facility to be constructed or work to be performed is speculative. Accordingly, Contractor does not guaranty that proposals, bids or actual costs will not vary from opinions, evaluations or studies submitted by Contractor.”
- Payment - ATS would like to request invoice payment either by check or ACH payment, rather than via a credit card payment process.
- Request term clarifying that Contractor shall be entitled to rely upon the accuracy of data and information provided by the City or others without independent review or evaluation.
- Request term stating that any reuse of Contractor prepared documents, except for the specific purpose intended hereunder, will be at the City’s sole risk and without liability or legal exposure to Contractor or its subcontractors.
- Contractor’s decision to decline any Additional Services shall be at its exclusive discretion and shall not be construed as a breach of the Agreement.

**Additional Terms:** To the extent the City requires additional terms to the resultant agreement used as the basis for contract negotiations, we believe those changes should be subject to the parties’ mutual agreement.