

# CITY of NORTH PORT

F L O R I D A

PROFESSIONAL  
ENGINEERING SERVICES  
CONTINUING SERVICES  
CONTRACTS FOR  
CITY OF NORTH PORT  
UTILITIES DEPARTMENT

RFP No. 2020-58

July 2020



## PROPOSAL



Treatment  
and Storage



Conveyance



Planning



Electrical/  
I&C



Geotechnical

**CDM  
Smith**

# CITY of NORTH PORT

F L O R I D A

## Request for Proposal's Subject, Title and Proposal Number:

Professional Engineering Services Continuing Services Contracts for City of North Port Utilities Department; RFP No. 2020-58

## Firm's Legal Name:

CDM Smith

## Points of Contact Information

(name, telephone, cell, fax number, and E-mail address):

Jason A. Sciandra, PE; Principal

Tel: 239.938.9618; Cell: 239.896.6538; Fax: 239.339.6418

Email: [sciandraja@cdmsmith.com](mailto:sciandraja@cdmsmith.com)



## PROPOSAL



Treatment and Storage



Conveyance



Planning



Electrical/  
I&C

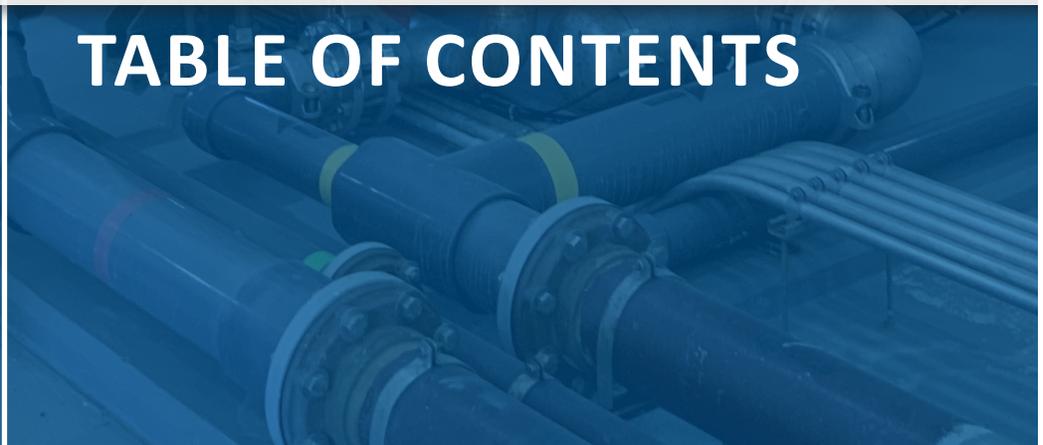


Geotechnical

# CDM Smith

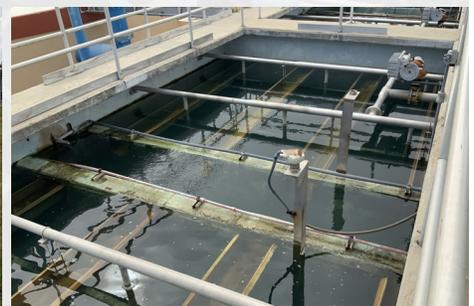


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TAB  
**1**

TRANSMITTAL LETTER





4210 Metro Parkway, Suite 230  
Fort Myers, FL 33916  
tel: 239.938.8600

July 20, 2020

City of North Port  
Ginny Duyn, CPPB, Senior Purchasing Administrator  
4970 City Hall Boulevard, Suite 337,  
North Port, FL 34286

**Subject: Professional Engineering Services – Continuing Contracts for City of North Port Utilities Department  
RFP No. 2020-58**

Dear Selection Committee Members:

The City of North Port’s Utility Department’s (NPU) mission is to provide customers quality water and sewer services in a safe, healthful, cost-effective, and efficient manner, and to accommodate growth of the community through the planned expansion of utility systems. In support of this mission, the City is seeking experienced, competent and qualified consultants to provide as-needed professional services.

CDM Smith Inc. is the most qualified consultant for this contract. We have served Southwest Florida from our Fort Myers office continuously for 33 years, our local presence has allowed us to improve the community where we live and work. We have successfully completed projects for 13 local utilities over the last four years through continuing/as-needed contract, including over 11 projects for NPU since December 2016. Currently, we are providing our expert assistance for two important potable water projects for NPU. Our multi-disciplinary teams have assisted cities of Cape Coral, Fort Myers, Punta Gorda, Marco Island, and Lee and Collier Counties. Projects included under these contracts have included all the categories and scope items listed within the City’s Request for Proposal (RFP).

In anticipation of the City’s potential projects, we have assembled a diverse team of seasoned professionals who will listen and align ourselves to City’s vision and guidance all the while providing independent opinions and actionable options for the City to implement within the resource constraints of your programs and projects. Our team has the necessary experience to effectively respond to the City’s needs. Many of the staff planned to assist NPU for this contract also live in the local area. Our teams will provide responsive services and strive to implement cost-effective and timely solutions for NPU by being professional as well as personally being vested in our communities. As residents, homeowners, and taxpayers, we understand the issues the City is facing. We are already aligned with your needs and vision and we want and will strive for providing the best outcomes for the City. NPU will benefit from our capable teams. Some of the key attributes we bring to the City include:

**Full-Service Firm:** We have the depth and breadth of multi-disciplinary experience to offer the City full-service in-house capabilities, which includes expertise in planning, design, document preparation, permitting, and construction inspection and management of water, wastewater, hydrogeological, environmental, energy, facilities, and transportation projects. Our staff are available to serve as an extension to the City staff, and offer the benefit of a single point of contact for your engineering and professional service needs. Our team’s expertise includes all disciplines in architecture and engineering and professional services and major discipline leads for process, civil electrical, mechanical, structural, and geotechnical services are truly local within a few hours of the City.

Our depth of local resources allows us to focus on your project drivers schedule, cost, quality, and/or project risk management, ultimately providing you with effective solutions and adding real value to your projects. Based on **CDM Smith’s full-service capabilities, we are seeking to be awarded a continuing service contract to provide services for all the disciplines listed in the five categories identified in the RFP.**



Category 1



Category 2



Category 3



Category 4



Category 5



**Strong Commitment to a Local Presence:** We established a presence in Florida more than 46 years ago, and we remain committed to maintaining our presence in the community and to working with the City to navigate the challenges of the current economic climate. Work assigned under this contract will flow through our Fort Myers office, with supporting expertise and assistance available from our other nine in-state offices and more than 125 offices worldwide, if needed. With nearly 400 professionals throughout Florida, CDM Smith is well-equipped to responsively address the various design and regulatory/permitting issues that are unique to Florida.

**Dedicated to the City's Needs:** The strength of our team lies in our team members. We understand that responsiveness and excellence in services is very important to the City. Leading our team is local senior project manager **Rajendra (Raj) D. Vaidya, PhD, PE, PMP, BCEE** an experienced project manager, resource manager, and technical specialist with 22 years of experience in water and wastewater facilities. He leverages his engineering knowledge, people skills, and experience with over 50 water and wastewater facilities from 0.2 mgd to 120 mgd capacity to offer project control and manage client portfolios. He has a broad history of meeting project goals and providing owners with responsive services. The City will also benefit from convenient access to **David E. MacNevin, PhD, PE, LEED® AP**, our regional expert in reverse osmosis (RO) water treatment plant (WTP) design and operations, whose primary residence is within a 20-minute drive of the City's MCWTP. He brings 14 years of successful delivery of a portfolio of projects specialized in membrane treatment, distribution system water quality, and corrosion control. Both Dave and Raj are currently assisting NPU for two important potable water projects; as such, both are familiar with the City's water system infrastructure, operations, and project requirements.

We are committed to project scope, schedule, budget, and quality and our outstanding client service record is a result of our demonstrated ability to control project costs, provide high-quality technical products, and meet project schedules. Our reputation with clients is for thorough, technically sound work; applied innovative thinking leading to practical solutions; consistent and competent project managers and key staff; schedule flexibility; and budget control. We pride ourselves on strong client service, which is based on both delivering the desired product and responsiveness to your needs.

**Innovative Solutions:** CDM Smith has an extensive track record of getting it right the first time and we often pave the pathways for identifying and implementing innovative solutions to mitigate risk or increase project effectiveness. We will leverage our direct potable reuse (DPR) experience, know-how for regulatory negotiations, habits of advancing scientific applications while balancing and mitigating risks and providing due diligence and in resource utilization to solidify the City's existing goals and establish pathways for project success. We have implemented innovative solutions to produce local hydrogeological models with sea water advection for NPU, recently undertook DPR feasibility projects for Gwinnett County, GA; JEA, FL; and Mount Pleasant, SC. Our teams work on everything from small scale infrastructure such as 0.2 mgd plants and a few miles of 6-inch pipelines to ultra large water and wastewater infrastructure such as the 320 mgd Houston Northeast Water Purification Plant Expansion the largest WTP in US and the world. This enables us to look out for you no matter what the complexity or issue; and our local teams work extensively with our national experts to drive successful outcomes.

The relevant work experience outlined in our submittal, our track record of service provided to the City, combined with our local understanding and our experienced staff, will be of great value to the City for this contract. We appreciate your consideration of our qualifications, and for the opportunity to again serve the City with the professionalism that defines CDM Smith. We look forward to the opportunity to serve the City in a collaborative manner.

If you require any additional information or if there are any questions about our credentials, I can be reached at 239.938.9618 or via email at sciandraja@cdmsmith.com. I give you my personal commitment to provide the City with the competent professional services upon which our solid reputation is built.

We acknowledge receipt of Addendum #1, 2, and 3. We have included our license index at the end of **Tab 9**.

Very truly yours,



Jason A. Sciandra, PE  
Principal  
CDM Smith Inc.



Tab 2:  
Qualifications of the Firm

# TAB 2

# QUALIFICATIONS OF THE FIRM



## Tab 2: Qualifications of the Firm

### Brief Overview of Firm's History and Organization

Established in 1947, CDM Smith is a consulting engineering firm delivering exceptional service to public and private clients worldwide. We are an employee owned corporation with over \$1.15B in annual revenues and a multidisciplinary staff of more than 5,000 in more than 125 offices worldwide. CDM Smith maintains the size, stability, and resources required to successfully undertake a diverse range of projects.

CDM Smith is an industry leader in providing as-needed service contracts with municipalities seeking broad-based consulting expertise, providing client with national expertise at the local level. We have extensive experience with the assessment, planning, design, bidding, and construction of complex water treatment, wastewater collection system, water transmission improvements, utilities, and environmental projects throughout Florida. In this section, we have included CDM Smith's qualifications and local, relevant experience in the categories and subcategories we are submitting on outlined in the City's RFP. We offer the City a team with the technical expertise of a global firm and the local experience and knowledge of a smaller firm. This project will be managed out of our local office in Fort Myers. Evidence of our credentials and licenses for the firm and our subconsultants are attached. CDM Smith meets the minimum requirements as listed in the Minimum Requirements on page 22 and 23 of the RFP.

✓ **State of Florida Registration** – CDM Smith's Florida registration is included at the end of the section, we have also included State of Florida registration from our subconsultants

✓ **Contract Manager – Patrick R. Victor, PE, DWRE** serves as contract manager and offers the City 31 years of experience dedicated to Florida clients. He has served as served as contract manager for similar contracts for 12 years

✓ **Licensure** – Team members have current State of Florida Professional Engineer license Professional Geologist license as indicated on the SF 330 resumes at the end of Tab 3

✓ **Regulatory Representation** – Our staff have the ability to represent the City before any and all regulatory agencies and City departments as necessary

✓ **Engineering/Design Experience** – All firms in our team offer more than five consecutive years of engineering/design services related directly to all disciplines

- CDM Smith – 74 total and 46 in Florida
- AIM Engineering & Surveying, Inc. – 40 years total and in Florida
- YPC Consulting Group, PL – 12 years total and in Florida

### Category 1 – Water, Wastewater, and Reclaimed Water Treatment & Storage Systems Potable Water Treatment Plants

Drinking water supply, treatment, and distribution has been our core business since our founding in 1947. As a firm, CDM Smith has completed more than 2,500 WTP projects and designed 1,500 new or expanded WTPs. Locally, we have been leading the way in WTP projects for 44+ years with more than 325 WTP projects across the state.

**CDM Smith** was founded in  
**1947**

nearly  
**400**  
staff

CDM Smith boasts a total Florida staff of nearly 400! This depth of staff allows us to take on projects of all sizes while maintaining availability of staff.

**22**  
staff

in our nearby Fort Myers office

**100%**

A full-service team with in-house, multi-disciplinary capabilities



### Wastewater Treatment Plants

Our wastewater planning, design, permitting, and construction management experience includes more than 270 WWTPs with more than 220 clients in 46 states since the turn of the century (2000). In Florida alone, this includes more than 250 WWTP/WRF projects completed in Florida in the last 10 years.

### Reclaimed Pumping and Storage Facilities

CDM Smith has conducted over 250 reclaimed water/water reuse projects around the country that encompass reclaimed water applications, wetland systems, groundwater recharge, storage, agricultural irrigation, and numerous urban applications. We have more than 60 years of experience in design and construction phase services for pump stations, storage tanks, and transmission/distribution mains. In addition, our staff is fully aware of the unique design components necessary for proper operation of a reclaimed water system. This experience allows a client a shorter start-up time to initial operation and start-up for new customers.

### Ground Storage Tank (GST) Design

Over the past seven decades, we have grown to be one of the largest design engineering firms for water systems, completing numerous water reservoir designs and/or design and inspections on tanks ranging from 200,000 gallons to 115 million gallons (MG). Siting new water storage facilities involves close coordination of system hydraulics with local topography. CDM Smith's nearly 70 water storage facility projects range in size from a 0.2 MG storage facility to a 45 MG concrete storage tank.

### Category 2 – Water, Wastewater, and Reclaimed Water Conveyance Systems Water Distribution Systems

CDM Smith offers the experience of more than 70 years of utilities, pipeline, and conveyance projects ranging from the planning and study of water systems to the design and engineering of these systems, as well as construction services. Having completed hundreds of distribution and transmission design projects in Florida, we offer experience that spans every aspect of water distribution engineering: water network planning, computer analysis, design, construction supervision, operations consulting, and management/financial consulting. We have completed thousands of miles of distribution and transmission design projects. These projects range from small distribution system mains up to tunnels as large as 11 feet in diameter, and water transmission mains up to 120" in diameter. Locally, many of our team members, led by project manager Jason A. Sciandra, PE, worked with the City of Naples to complete the planning, design, permitting, and construction



### Construction Management/Inspection

CDM Smith is a fully integrated engineering and construction firm and is a licensed Certified General Contractor in the State of Florida. The project team also brings to the project Florida market experience with knowledge of local construction methodologies, climate, ground conditions, labor market, and subcontractors, having completed construction engineering and inspection of more than 100 Florida projects in the last five years alone. The integration of CDM Smith engineers and construction professionals allows seamless coordination internally to enhance overall performance.

### Reuse Water Distribution Systems

As a recognized leader and innovator in the field of water reuse, we have conducted more than 270 significant reclaimed/reuse water projects worldwide encompassing a wide range of services and technologies including reclaimed utility development, modeling, planning, design, permitting, and construction. When the Environmental Protection Agency (EPA) wanted to promote and encourage water reuse, they chose us to prepare and update comprehensive guidelines in 1980, 1992, 2004, 2010, 2012, 2015, and the most recent 2017 update. This planning document, "Guidelines for Water Reuse," highlights the principal steps of planning for a reclaimed water program, addressing technical matters, siting, economics, legal and institutional issues, health issues, and public involvement. Our knowledge of the current reuse standards and best practices assures North Port that our team will deliver solutions that cover the technical, regulatory, and engineering aspects of water reuse.



of a 10-mgd surface water intake facility and associated transmission main. The pipeline, which totals nearly 12,000 feet, includes approximately 8,000 feet of open cut installation of 20-inch PVC pipeline and nearly 4,000 feet of horizontal direction drill (HDD) installation of 20-inch PVC pipeline.

### Wastewater Collection Systems

The planning, design, rehabilitation, permitting, and construction administration of major collection system and pump station projects have always been a core of our business. We have worked on more than 500 pump station projects in the past ten years alone. We have designed pump stations up to a capacity of 1,750 mgd, including numerous pumping facilities in the 15 to 600 mgd range. Routinely, our staff undertakes pump station projects in an array of roles including system analysis, detailed system modeling, pump selection, inlet design, and surge analysis.

### Mains/Pipeline

CDM Smith has participated in over 1,000 main and pipeline projects in the past 10 years involving the design of pipelines, tunnels, and subaqueous pipelines. These projects range from small distribution system mains up to tunnels as large as 11 feet in diameter, and water transmission mains up to 120 inches in diameter.

### Trenchless Technologies

CDM Smith has been ranked as one of the Top 10 Pipeline Design Consultant by Trenchless Technology (the premier publication for pipe work) since 2009. What's more, as a designer, CDM Smith has performed more than a hundred significant tunneling, jack and bore, and HDD projects locally and globally within the past five years.

### Category 3 – Water, Wastewater, and Reclaimed Water Planning Potable Water Wells

CDM Smith has a long and successful history of well and wellfield design, construction management, and well rehabilitation experience in Florida with over 500 mgd of installed capacity including a combination of surficial aquifer and Floridan Aquifer supply wells. Our team has successfully undertaken and completed more than 100 projects in Florida involving production wells for WTPs, as well as consumptive use permit (CUP) procurement. Our professional geologists, hydrogeologists, and engineers are especially familiar with the hydrogeology of Southwest Florida due to our extensive local production well experience.

### Reclaimed Augmentation

CDM Smith has completed feasibility studies for the use of reclaimed water to augment their water supplies. Example projects include our feasibility study for the South Florida Water Management District (SFWMD). This project involved augmentation by using highly treated reclaimed

water to maintain canal levels and recharge the Biscayne aquifer, thereby reducing demands on the Everglades/Lake Okeechobee Regional System, especially during the dry season. Also, for the City of Kissimmee's Judge Farms Water Storage Facility Feasibility project, we determined the feasibility of harvesting stormwater for reuse augmentation. In doing so, we investigated an alternative water supply for reuse augmentation. For the City of West Palm Beach's Wetlands-Based Water Reclamation and Aquifer Recharge project, we planned for the use of highly treated reclaimed water to recharge wetlands and aquifers.

CDM Smith has performed master plans in almost all of the Florida Counties and for over 50% of Cities in Florida. Work ranged from 10 to 30 year plans, financial estimates, assistance for phased CIP planning and implementation, rate studies, pipeline distribution and conveyance system expansions, utility highway relocation projects with FDOT.

### Hydraulic and Specialty Modeling

CDM Smith is a leader in the use of computer modeling for water and wastewater system planning, amassing more than 40 years of experience in the development, application, and training of water and wastewater models. We have constructed models for large and small utilities throughout the southeast and around the world. Our proposed team has direct experience building models using various software products including Innowyze InfoWater, Innowyze InfoWorks ICM, Bentley WaterGEMS, KY Pipe, EPANET, Autodesk HydraulicCAD, IPE-FLO and Visual Hydraulics. Our broad software experience enables our team to be flexible and to work with our clients to select the most appropriate software for their needs. Our team recently developed a City-wide hydraulic model of the City of North Port's wastewater pumping stations and force main network using Bentley WaterGEMS.



## RESPONSIVENESS YOU CAN COUNT ON!

CDM Smith assisted Collier County in addressing an unplanned discharge during the replacement of injection tubing for the deep injection well at the North County Regional Water Treatment Plant (NCRWTP). After receiving the emergency call from County staff, **CDM Smith** mobilized on the site, assessed the situation, provided recommendations to County staff for addressing the problem, and assisted the County with reporting the incident to the FDEP. The County was able to quickly resolve the problem as a result of CDM Smith's actions, as well as maintain its level of service, and avoid possible enforcement and penalties from FDEP.



## Category 4 – Electrical and Instrumentation/Controls

### Electrical

CDM Smith offers a full complement of electrical engineering and support services, allowing us to support projects ranging from small pilot-scale studies and specialized consultation, to complex projects requiring a multi-disciplined approach. We have completed hundreds of projects that involve the planning, design, construction and start-up of electrical systems, including power supply unit back-up, primary and secondary distribution, power generation and cogeneration facilities design, evaluations and master planning, arc-flash hazard analysis and labeling, and sustainable/renewable energy and power system analysis. CDM Smith utilizes SKM PowerTools® and ETAP® power system analysis software to perform load flow, voltage stability, harmonic, reliability, arc flash, short circuit, and protective relaying scheme analysis. Our electrical engineering staff is well-versed in all aspects of electrical power analysis and protection schemes using both electronic and electro-mechanical type relays.

CDM Smith is known for delivering projects with a focus on solid design and reliable, operator-friendly systems. Our team has extensive experience delivering electrical improvement projects, as well as electrical rehabilitation and upgrade projects, including low- and medium-voltage equipment and the latest technologies in arc-flash mitigation, uninterruptible power supply units, MCCs, and smart MCC topography. We offer a full suite of electrical engineering professional services, including planning, design, construction, start-up and operation of small-, medium-, and large-scale distribution systems. We have extensive experience with distribution system upgrades, including Switchgear and Switchboard/MCC construction; back-up generator systems, including emergency standby and systems for load curtailment and load shedding programs; support for process improvements, such as VFDs, MCCs, and I&C improvements; as well as interior and exterior lighting upgrades.

### SCADA/Programming and I&C Experience

As a leader in the potable, waste, and reclaimed water infrastructure, CDM Smith has developed a versatile automation design staff with experience that provides the full suite of SCADA and data management services—planning, design, programming and integration—for systems incorporating the latest technologies for projects ranging from minor system improvements to complete SCADA system replacements at large water and wastewater treatment facilities, as well as regional sewage collection and water and reclaimed distribution systems. Our automation professionals have provided planning, design, programming, commissioning, start-up, and training of network and computer-based monitoring and control systems for more than 1,000 projects worldwide. Our automation professionals provide our clients with personal service on a local basis, while quickly drawing upon the technical expertise available throughout the firm. We have designed systems utilizing all of the major programmable logic controller (PLC) and human-machine interface (HMI) software packages available. We have strong, established relationships with many integrators, as well as SCADA system hardware and software manufacturers. These relationships provide CDM Smith with an unbiased perspective and allow us to evaluate systems on their merits to meet a client's needs such as cost, level of operator experience, integration with existing systems, and availability of spare parts from suppliers. Our client-service-focused culture, allows us to tailor our services to meet the customer's needs. We have a vast knowledge of various communication protocols and media to allow for integration of the system components into a fully coordinated and efficient system with open architecture.

### Category 5 – Geotechnical:

CDM Smith provides a full range of traditional and specialty geotechnical design and construction services with an emphasis on finding innovative solutions to complex challenges including subsurface investigations and foundation designs for buildings and facilities. Our geotechnical engineers are experienced in the design of ground improvement, excavation support, and foundations for a wide assortment of projects types. They use state-of-the-art software to analyze settlement of shallow foundations, bearing capacity estimates, roadway performance, data acquisition needs, provide GIS mapping, estimates of calculating slope stability, make predictions of movements around deep excavations and design foundations and foundation support systems. This software helps to reduce design cost while maintaining high quality standards.



CDM Smith has a **proven record** of success in **providing comprehensive consulting, engineering, construction, and operation optimization services for electrical engineering projects.**

**Business Structure**

CDM Smith was founded in Massachusetts in 1947 as a partnership of three professional engineers. The firm changed its structure from a partnership to a corporation in 1970.

**Address and Contact Person**

CDM Smith will provide engineering services to the City from our Fort Myers office. Our close proximity and close working relationships with the regulatory agencies’ local offices will be a benefit to the City. The project will be completed under the direction and overall responsibility of principal-in-charge **Jason A. Sciandra, PE**.

2180 West First Street, Suite 400, Fort Myers, FL 33901  
 Tel: 239.938.9618; Fax: 239.339.6418  
 Email: sciandraja@cdmsmith.com  
 Website: cdmsmith.com

**Firm Size**

CDM Smith has a multidisciplinary staff of more than 5,100 in more than 125 offices worldwide. For many years we have led the management of as-needed services contracts for municipal entities such as the counties of Lee, Collier, and Charlotte, and the cities of Cape Coral, Fort Myers, Sanibel, Naples, and Marco Island. With a history of providing engineering design services, CDM Smith knows the management and response demands of an as-needed services contract. Hand-picked for cost-effectiveness, our project team is backed by our nine Florida offices, which boast staff of nearly 400 with a variety of specialties, and covering all the engineering disciplines required for the City’s projects.

In addition to the resources of our Fort Myers office, our team will be supported from our Tampa, Maitland, Sarasota, Boca Raton, and Jacksonville offices which maintain all of the major disciplines that will be required to successfully complete projects that may be requested under this contract. Having one full-service firm reduces the risk of project delays allowing us to complete your projects on-schedule and in a professional manner. Notably, our Maitland office of nearly 200 serves as the Southeastern US Design and Production Center, allowing clients to participate in real-time design activities (including 3D/4D design) and staff training during construction.

**Authorized and Licensed Under Florida Statutes to Perform the Professional Services Sought by this RFP**

We have included copies of our firm’s current Florida Department of Business and Professional Regulation’s License. CDM Smith is incorporated in the State of Massachusetts, and became authorized to do business in the State of Florida in 1974. A copy of our Sunbiz profile page from the State of Florida Division of Corporations is attached as proof of our ability to conduct business in the State of Florida.

We have also included our subconsultant team members’ applicable certificates.

**SF 330 Part II**

As required by the City’s request for proposal (RFP) we have included SF 330 Part I A-C and SF 330 Part II for our firm and our subconsultants on the following pages.

**Subconsultants**

In addition to the vast resources of CDM Smith, we also have added outstanding local companies as subconsultants on this project. Our comprehensive team brings the invaluable experience of numerous previous relevant assignments. Our team includes AIM for mapping and surveying services and YPC for geotechnical engineering. YPC is a full-service geotechnical engineering, environmental consulting, construction materials testing, and inspection company. YPC has partnered with CDM Smith on numerous projects including the Bobcat Trail Force Main Replacement for North Port. AIM has partnered with CDM Smith on sevne project providing surveying, mapping, and SUE services. They have also completed three projects for the City including the North Port Water Control Structure 115 Replacement where they provided surveying, mapping and SUE services.



CATEGORY	STAFF IN FLORIDA	STAFF IN FORT MYERS
Architect	6	-
CADD Technician	15	-
Civil Engineer	18	2
Construction Inspector	63	8
Construction Manager	19	1
Cost Estimator	9	-
Electrical Engineer	20	-
Environmental Engineer	43	6
Environmental Scientist	5	-
GIS Specialist	5	-
Geologist	5	-
Geotechnical Engineer	2	-
Hydraulic Engineer	7	-
Hydrologist	14	1
Mechanical Engineer	7	-
Planner	30	2
Sanitary Engineer	6	-
Structural Engineer	6	-
Technician	28	-
Transportation Engineer	19	-
Other	59	2
<b>TOTAL</b>	<b>386</b>	<b>22</b>

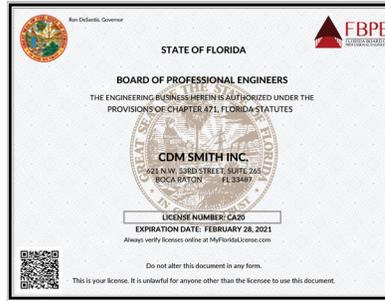
CDM Smith

Division of CORPORATIONS



Department of State / Division of Corporations / Search Records / Detail By Document Number /

**Detail by Entity Name**  
 Foreign Profit Corporation  
 CDM SMITH INC.  
 Filing Information  
 Document Number 832235  
 FEIEN Number 04-2473650  
 Date Filed 04/23/1974  
 State MA  
 Status ACTIVE  
 Last Event NAME CHANGE AMENDMENT  
 Event Date Filed 12/15/2011  
 Event Effective Date NONE  
 Principal Address  
 75 State Street  
 #701  
 Boston, MA 02109  
 Changed: 04/13/2015  
 Mailing Address  
 75 State Street  
 #701  
 Boston, MA 02109  
 Changed: 04/13/2015  
 Registered Agent Name & Address  
 C T CORPORATION SYSTEM  
 1200 S FINE ISLAND RD  
 PLANTATION, FL 33324  
 Address Changed: 10/17/2014  
 Officer/Director Detail  
**Name & Address**  
 Title CEO  
 Wall, Timothy B  
 75 State Street  
 #701



AIM Engineering & Surveying, Inc.

YPC Consulting Group, P.L.

Division of CORPORATIONS



Department of State / Division of Corporations / Search Records / Detail by Street Address /

**Detail by Street Address**  
 Florida Profit Corporation  
 AIM ENGINEERING & SURVEYING, INC.  
 Filing Information  
 Document Number L80948  
 FEIEN Number 85-019775  
 Date Filed 06/18/1990  
 State FL  
 Status ACTIVE  
 Last Event AMENDMENT  
 Event Date Filed 04/02/2010  
 Event Effective Date NONE  
 Principal Address  
 2161 FOWLER STREET  
 SUITE 100  
 FORT MYERS, FL 33901  
 Changed: 03/08/2017  
 Mailing Address  
 2161 FOWLER STREET  
 SUITE 100  
 FORT MYERS, FL 33901  
 Changed: 03/08/2017  
 Registered Agent Name & Address  
 HULL, JERRON K  
 2161 FOWLER STREET  
 SUITE 100  
 FORT MYERS, FL 33901  
 Name Changed: 04/02/2001  
 Address Changed: 03/08/2017  
 Officer/Director Detail  
**Name & Address**  
 Title Chairman

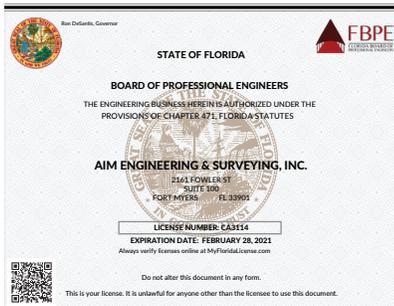


Division of CORPORATIONS



Department of State / Division of Corporations / Search Records / Detail by Entity Name /

**Detail by Entity Name**  
 Florida Limited Liability Company  
 YPC CONSULTING GROUP, PL  
 Filing Information  
 Document Number L0200064031  
 FEIEN Number 83-0514657  
 Date Filed 07/01/2008  
 State FL  
 Status ACTIVE  
 Principal Address  
 5931 COUNTRY LAKES DR  
 FORT MYERS, FL 33905-5507  
 Changed: 09/23/2014  
 Mailing Address  
 5931 COUNTRY LAKES DR  
 FORT MYERS, FL 33905-5507  
 Changed: 09/23/2014  
 Registered Agent Name & Address  
 CHIU, YEN-PO MGRM  
 2748 BLUE CYPRESS LAKE COURT  
 CAPE CORRAL, FL 33909  
 Name Changed: 01/16/2009  
 Authorized Personnel Detail  
**Name & Address**  
 Title MGRM  
 CHIU, YEN-PO  
 2748 BLUE CYPRESS LAKE COURT  
 CAPE, FL 33909  
 Title MGR  
 STEPHAN, GREGORY A  
 2706 SW 21ST PLACE  
 CAPE CORRAL, FL 33914



A. CONTRACT INFORMATION		
1. TITLE AND LOCATION (City and State)		
Professional Engineering Services – Continuing Services Contracts, North Port, FL		
2. PUBLIC NOTICE DATE	3. SOLICITATION OR PROJECT NUMBER:	
June 17, 2020	2020-58	
B. ARCHITECT-ENGINEER POINT OF CONTACT		
4. NAME AND TITLE		
Jason A. Sciandra, PE; Principal		
5. NAME OF FIRM		
CDM Smith Inc.		
6. TELEPHONE NUMBER	7. FAX NUMBER	8. E-MAIL ADDRESS
239.938.9618	239.339.6418	sciandraja@cdmsmith.com

### C. PROPOSED TEAM (COMPLETE THIS SECTION FOR THE PRIME CONTRACTOR AND ALL KEY SUBCONTRACTORS.)

	PRIME	J-V PARTNER	SUBCONTRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	✓			CDM Smith – Fort Myers, FL <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	4210 Metro Parkway, Suite 230 Fort Myers, FL 33916	Prime
b.	✓			CDM Smith – Tampa, FL <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	2002 N. Lois Avenue, Suite 200 Tampa, FL 33607	Engineering Support
c.	✓			CDM Smith – Orlando, FL <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	101 Southhall Lane, Suite 200 Maitland, FL 32751	Engineering Support
d.	✓			CDM Smith – Boca Raton, FL <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	621 N.W. 53rd Street, Suite 265 Boca Raton, FL 33487	Engineering Support
e.	✓			CDM Smith – Sarasota, FL <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	5965 Cattlemen Lane Sarasota, FL 34232	Engineering Support
f.	✓			CDM Smith – Jacksonville, FL <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	4651 Salisbury Road, Suite 420 Jacksonville, FL 32256	Engineering Support
g.	✓			CDM Smith – Atlanta, GA <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	3200 Windy Hill Road, Suite 210 West Atlanta, GA 30339	Engineering Support
h.	✓			CDM Smith – Raleigh, NC <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	5400 Glenwood Avenue, Suite 400 Raleigh, NC 27612	Engineering Support
i.	✓			CDM Smith – Knoxville, TN <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1100 Marion Street, Suite 300 Knoxville, TN 37921	Engineering Support
j.	✓			CDM Smith – Helena, MT <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	560 North Park Avenue, Suite 300 Helena, MT 59601	Engineering Support
k.	✓			CDM Smith – Rancho Cucamonga, CA <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	9220 Cleveland Avenue, Suite 100 Rancho Cucamonga, CA 91730	Engineering Support
l.			✓	AIM Engineering and Surveying <input type="checkbox"/> CHECK IF BRANCH OFFICE	2161 Fowler St Fort Myers, FL 33901	Surveying
m.			✓	YPC Consulting <input type="checkbox"/> CHECK IF BRANCH OFFICE	5931 Country Lakes Dr Fort Myers, FL 33905	Environmental

# Architect-Engineer Qualifications

## PART II – GENERAL QUALIFICATIONS

<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>			1. SOLICITATION NUMBER (if any):	
2a. FIRM (OR BRANCH OFFICE) NAME			190-0157-NC (SS)	
CDM Smith Inc.			3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET			1947	05-599-0261
4210 Metro Parkway, Suite 230			5. OWNERSHIP	
2c. CITY	2d. STATE	2e. ZIP	a. TYPE	b. SMALL BUSINESS STATUS:
Fort Myers,	FL	33916	Corporation	Large Business
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Jason A. Sciandra, PE; Principal			CDM Smith Inc.	
6b. TELEPHONE NUMBER:		6c. E-MAIL ADDRESS:		8b. YR. ESTABLISHED
239.938.9618		sciandraja@cdmsmith.com		8c. DUNS NUMBER
				1947
				05-599-0261
8. FORMER FIRM NAME(S) (if any)				
Camp Dresser & McKee; Camp Dresser & McKee Inc.				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS 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	52	-	A12	Automation; Controls; Instrumentation	8
08	CADD Technician	196	-	C15	Construction Management	10
12	Civil Engineer	410	2	C18	Cost Estimating; Cost Engineering	6
15	Construction Inspector	303	8	E03	Electrical Studies and Design	8
16	Construction Manager	235	1	E09	Environmental Impact Studies	8
18	Cost Estimator	65	-	E12	Environmental Remediation	10
21	Electrical Engineer	158	-	E13	Environmental Testing and Analysis	8
23	Environmental Engineer	613	6	H07	Highways; Streets; Airfield Paving; Parking Lots	9
24	Environmental Scientist	274	-	P06	Planning (Site, Installation, and Project)	9
29	Geographic Information System Specialist	112	-	P07	Plumbing & Piping Design	9
30	Geologist	196	-	R06	Rehabilitation (Buildings; Structures; Facilities)	10
27	Geotechnical Engineer	120	-	R11	Rivers; Canals; Waterways; Flood Control	7
32	Hydraulic Engineer	117	-	S04	Sewage Collection, Treatment and Disposal	10
34	Hydrologist	162	1	S05	Soils & Geologic Studies; Foundations	9
42	Mechanical Engineer	78	-	S07	Solid Wastes; Incineration; Landfill	8
47	Planner	256	1	S09	Structural Design; Special Structures	8
52	Sanitary Engineer	55	-	S11	Sustainable Design	8
57	Structural Engineer	153	-	S13	Storm Water Handling & Facilities	9
58	Technician	558	-	T03	Traffic & Transportation Engineering	8
60	Transportation Engineer	174	-	U04	Utility Design/Coordination/Inspection	9
	Other	876	1	W02	Water Resources; Hydrology; Groundwater	10
TOTAL		5,163	20	W03	Water Supply; Treatment and 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	c. NAME AND TITLE	
	July 20, 2020	Jason A. Sciandra, PE; Principal	

# Architect-Engineer Qualifications

## PART II – GENERAL QUALIFICATIONS

<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>			1. SOLICITATION NUMBER (if any):	
2a. FIRM (OR BRANCH OFFICE) NAME			190-0157-NC (SS)	
CDM Smith Inc.			3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET			1947	05-599-0261
2002 N. Lois Avenue, Suite 200			5. OWNERSHIP	
2c. CITY	2d. STATE	2e. ZIP	a. TYPE	b. SMALL BUSINESS STATUS:
Tampa	FL	33607	Corporation	Large Business
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Timothy J. Smith, PE, PMP; Principal			CDM Smith Inc.	
6b. TELEPHONE NUMBER:		6c. E-MAIL ADDRESS:	8b. YR. ESTABLISHED	8c. DUNS NUMBER
813.281.2900		smithtim@cdmsmith.com	1947	05-599-0261
8. FORMER FIRM NAME(S) (if any)				
Camp Dresser & McKee; Camp Dresser & McKee Inc.				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS 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	52	-	A12	Automation; Controls; Instrumentation	8
08	CADD Technician	196	-	C15	Construction Management	10
12	Civil Engineer	410	4	C18	Cost Estimating; Cost Engineering	6
15	Construction Inspector	303	1	E03	Electrical Studies and Design	8
16	Construction Manager	235	1	E09	Environmental Impact Studies	8
18	Cost Estimator	65	1	E12	Environmental Remediation	10
21	Electrical Engineer	158	3	E13	Environmental Testing and Analysis	8
23	Environmental Engineer	613	11	H07	Highways; Streets; Airfield Paving; Parking Lots	9
24	Environmental Scientist	274	-	P06	Planning (Site, Installation, and Project)	9
29	Geographic Information System Specialist	112	-	P07	Plumbing & Piping Design	9
30	Geologist	196	-	R06	Rehabilitation (Buildings; Structures; Facilities)	10
27	Geotechnical Engineer	120	-	R11	Rivers; Canals; Waterways; Flood Control	7
32	Hydraulic Engineer	117	1	S04	Sewage Collection, Treatment and Disposal	10
34	Hydrologist	162	2	S05	Soils & Geologic Studies; Foundations	9
42	Mechanical Engineer	78	1	S07	Solid Wastes; Incineration; Landfill	8
47	Planner	256	2	S09	Structural Design; Special Structures	8
52	Sanitary Engineer	55	1	S11	Sustainable Design	8
57	Structural Engineer	153	-	S13	Storm Water Handling & Facilities	9
58	Technician	558	5	T03	Traffic & Transportation Engineering	8
60	Transportation Engineer	174	2	U04	Utility Design/Coordination/Inspection	9
	Other	876	7	W02	Water Resources; Hydrology; Groundwater	10
TOTAL		5,163	42	W03	Water Supply; Treatment and 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	c. NAME AND TITLE
	July 20, 2020	Timothy J. Smith, PE, PMP; Principal

# Architect-Engineer Qualifications

## PART II – GENERAL QUALIFICATIONS

<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>			1. SOLICITATION NUMBER (if any):	
2a. FIRM (OR BRANCH OFFICE) NAME			190-0157-NC (SS)	
CDM Smith Inc.			3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET			1947	05-599-0261
101 Southhall Lane, Suite 200			5. OWNERSHIP	
2c. CITY	2d. STATE	2e. ZIP	a. TYPE	b. SMALL BUSINESS STATUS:
Maitland	FL	32751	Corporation	Large Business
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Eric J. Grotke, PE, BCEE; Vice President			CDM Smith Inc.	
6b. TELEPHONE NUMBER:		6c. E-MAIL ADDRESS:	8b. YR. ESTABLISHED	8c. DUNS NUMBER
407.660.2552		grotkeej@cdmsmith.com	1947	05-599-0261
8. FORMER FIRM NAME(S) (if any)				
Camp Dresser & McKee; Camp Dresser & McKee Inc.				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS 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	52	6	A12	Automation; Controls; Instrumentation	8
08	CADD Technician	196	13	C15	Construction Management	10
12	Civil Engineer	410	6	C18	Cost Estimating; Cost Engineering	6
15	Construction Inspector	303	38	E03	Electrical Studies and Design	8
16	Construction Manager	235	13	E09	Environmental Impact Studies	8
18	Cost Estimator	65	8	E12	Environmental Remediation	10
21	Electrical Engineer	158	10	E13	Environmental Testing and Analysis	8
23	Environmental Engineer	613	7	H07	Highways; Streets; Airfield Paving; Parking Lots	9
24	Environmental Scientist	274	3	P06	Planning (Site, Installation, and Project)	9
29	Geographic Information System Specialist	112	-	P07	Plumbing & Piping Design	9
30	Geologist	196	2	R06	Rehabilitation (Buildings; Structures; Facilities)	10
27	Geotechnical Engineer	120	2	R11	Rivers; Canals; Waterways; Flood Control	7
32	Hydraulic Engineer	117	2	S04	Sewage Collection, Treatment and Disposal	10
34	Hydrologist	162	7	S05	Soils & Geologic Studies; Foundations	9
42	Mechanical Engineer	78	4	S07	Solid Wastes; Incineration; Landfill	8
47	Planner	256	13	S09	Structural Design; Special Structures	8
52	Sanitary Engineer	55	1	S11	Sustainable Design	8
57	Structural Engineer	153	5	S13	Storm Water Handling & Facilities	9
58	Technician	558	21	T03	Traffic & Transportation Engineering	8
60	Transportation Engineer	174	9	U04	Utility Design/Coordination/Inspection	9
	Other	876	29	W02	Water Resources; Hydrology; Groundwater	10
TOTAL		5,163	199	W03	Water Supply; Treatment and 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	c. NAME AND TITLE	
	July 20, 2020	Eric J. Grotke, PE, BCEE; Vice President	

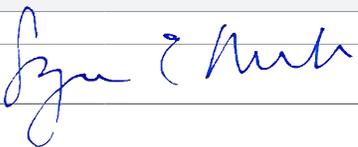
# Architect-Engineer Qualifications

## PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)			1. SOLICITATION NUMBER (if any):	
2a. FIRM (OR BRANCH OFFICE) NAME			190-0157-NC (SS)	
CDM Smith Inc.			3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET			1947	05-599-0261
621 N.W. 53rd Street, Suite 265			5. OWNERSHIP	
2c. CITY	2d. STATE	2e. ZIP	a. TYPE	b. SMALL BUSINESS STATUS:
Boca Raton	FL	33487	Corporation	Large Business
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Suzanne E. Mechler, PE, BCEE; Associate			CDM Smith Inc.	
6b. TELEPHONE NUMBER:		6c. E-MAIL ADDRESS:	8b. YR. ESTABLISHED	8c. DUNS NUMBER
561.571.3756		mechlerse@cdmsmith.com	1947	05-599-0261
8. FORMER FIRM NAME(S) (if any)				
Camp Dresser & McKee; Camp Dresser & McKee Inc.				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS 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	52	-	A12	Automation; Controls; Instrumentation	8
08	CADD Technician	196	1	C15	Construction Management	10
12	Civil Engineer	410	1	C18	Cost Estimating; Cost Engineering	6
15	Construction Inspector	303	1	E03	Electrical Studies and Design	8
16	Construction Manager	235	3	E09	Environmental Impact Studies	8
18	Cost Estimator	65	-	E12	Environmental Remediation	10
21	Electrical Engineer	158	4	E13	Environmental Testing and Analysis	8
23	Environmental Engineer	613	6	H07	Highways; Streets; Airfield Paving; Parking Lots	9
24	Environmental Scientist	274	1	P06	Planning (Site, Installation, and Project)	9
29	Geographic Information System Specialist	112	4	P07	Plumbing & Piping Design	9
30	Geologist	196	2	R06	Rehabilitation (Buildings; Structures; Facilities)	10
27	Geotechnical Engineer	120	-	R11	Rivers; Canals; Waterways; Flood Control	7
32	Hydraulic Engineer	117	1	S04	Sewage Collection, Treatment and Disposal	10
34	Hydrologist	162	-	S05	Soils & Geologic Studies; Foundations	9
42	Mechanical Engineer	78	1	S07	Solid Wastes; Incineration; Landfill	8
47	Planner	256	-	S09	Structural Design; Special Structures	8
52	Sanitary Engineer	55	1	S11	Sustainable Design	8
57	Structural Engineer	153	-	S13	Storm Water Handling & Facilities	9
58	Technician	558	-	T03	Traffic & Transportation Engineering	8
60	Transportation Engineer	174	-	U04	Utility Design/Coordination/Inspection	9
	Other	876	5	W02	Water Resources; Hydrology; Groundwater	10
TOTAL		5,163	31	W03	Water Supply; Treatment and 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	c. NAME AND TITLE
	July 20, 2020	Suzanne E. Mechler, PE, BCEE; Associate

# Architect-Engineer Qualifications

## PART II – GENERAL QUALIFICATIONS

<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>			1. SOLICITATION NUMBER (if any):	
2a. FIRM (OR BRANCH OFFICE) NAME			190-0157-NC (SS)	
CDM Smith Inc.			3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET			1947	05-599-0261
5965 Cattlemen Lane			5. OWNERSHIP	
2c. CITY	2d. STATE	2e. ZIP	a. TYPE	b. SMALL BUSINESS STATUS:
Sarasota	FL	34232	Corporation	Large Business
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Amy Davies; Associate			CDM Smith Inc.	
6b. TELEPHONE NUMBER:		6c. E-MAIL ADDRESS:		8b. YR. ESTABLISHED
239.938.9606		daviesah@cdmsmith.com		1947
				8c. DUNS NUMBER
				05-599-0261
8. FORMER FIRM NAME(S) (if any)				
Camp Dresser & McKee; Camp Dresser & McKee Inc.				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS 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	52	-	A12	Automation; Controls; Instrumentation	8
08	CADD Technician	196	-	C15	Construction Management	10
12	Civil Engineer	410	1	C18	Cost Estimating; Cost Engineering	6
15	Construction Inspector	303	8	E03	Electrical Studies and Design	8
16	Construction Manager	235	-	E09	Environmental Impact Studies	8
18	Cost Estimator	65	-	E12	Environmental Remediation	10
21	Electrical Engineer	158	-	E13	Environmental Testing and Analysis	8
23	Environmental Engineer	613	1	H07	Highways; Streets; Airfield Paving; Parking Lots	9
24	Environmental Scientist	274	-	P06	Planning (Site, Installation, and Project)	9
29	Geographic Information System Specialist	112	-	P07	Plumbing & Piping Design	9
30	Geologist	196	-	R06	Rehabilitation (Buildings; Structures; Facilities)	10
27	Geotechnical Engineer	120	-	R11	Rivers; Canals; Waterways; Flood Control	7
32	Hydraulic Engineer	117	-	S04	Sewage Collection, Treatment and Disposal	10
34	Hydrologist	162	-	S05	Soils & Geologic Studies; Foundations	9
42	Mechanical Engineer	78	-	S07	Solid Wastes; Incineration; Landfill	8
47	Planner	256	-	S09	Structural Design; Special Structures	8
52	Sanitary Engineer	55	-	S11	Sustainable Design	8
57	Structural Engineer	153	1	S13	Storm Water Handling & Facilities	9
58	Technician	558	-	T03	Traffic & Transportation Engineering	8
60	Transportation Engineer	174	3	U04	Utility Design/Coordination/Inspection	9
	Other	876	-	W02	Water Resources; Hydrology; Groundwater	10
TOTAL		5,163	14	W03	Water Supply; Treatment and 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 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 9. \$25 million to less than \$50 million 10. \$50 million or greater	
b. NON-FEDERAL WORK	10			
c. TOTAL WORK	10			
12. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.				
a. SIGNATURE	b. DATE	c. NAME AND TITLE		
	July 20, 2020	Amy Davies; Associate		

# Architect-Engineer Qualifications

## PART II – GENERAL QUALIFICATIONS

<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>			1. SOLICITATION NUMBER (if any):	
2a. FIRM (OR BRANCH OFFICE) NAME			190-0157-NC (SS)	
CDM Smith Inc.			3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET			1947	05-599-0261
4651 Salisbury Road, Suite 420			5. OWNERSHIP	
2c. CITY	2d. STATE	2e. ZIP	a. TYPE	b. SMALL BUSINESS STATUS:
Jacksonville	FL	32256	Corporation	Large Business
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Patrick R. Victor, PE, DWRE; Vice President			CDM Smith Inc.	
6b. TELEPHONE NUMBER:		6c. E-MAIL ADDRESS:	8b. YR. ESTABLISHED	8c. DUNS NUMBER
904.527.6736		victorpr@cdmsmith.com	1947	05-599-0261
8. FORMER FIRM NAME(S) (if any)				
Camp Dresser & McKee; Camp Dresser & McKee Inc.				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS 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	52	-	A12	Automation; Controls; Instrumentation	8
08	CADD Technician	196	-	C15	Construction Management	10
12	Civil Engineer	410	1	C18	Cost Estimating; Cost Engineering	6
15	Construction Inspector	303	7	E03	Electrical Studies and Design	8
16	Construction Manager	235	1	E09	Environmental Impact Studies	8
18	Cost Estimator	65	-	E12	Environmental Remediation	10
21	Electrical Engineer	158	-	E13	Environmental Testing and Analysis	8
23	Environmental Engineer	613	7	H07	Highways; Streets; Airfield Paving; Parking Lots	9
24	Environmental Scientist	274	1	P06	Planning (Site, Installation, and Project)	9
29	Geographic Information System Specialist	112	-	P07	Plumbing & Piping Design	9
30	Geologist	196	1	R06	Rehabilitation (Buildings; Structures; Facilities)	10
27	Geotechnical Engineer	120	-	R11	Rivers; Canals; Waterways; Flood Control	7
32	Hydraulic Engineer	117	2	S04	Sewage Collection, Treatment and Disposal	10
34	Hydrologist	162	2	S05	Soils & Geologic Studies; Foundations	9
42	Mechanical Engineer	78	-	S07	Solid Wastes; Incineration; Landfill	8
47	Planner	256	1	S09	Structural Design; Special Structures	8
52	Sanitary Engineer	55	1	S11	Sustainable Design	8
57	Structural Engineer	153	-	S13	Storm Water Handling & Facilities	9
58	Technician	558	-	T03	Traffic & Transportation Engineering	8
60	Transportation Engineer	174	1	U04	Utility Design/Coordination/Inspection	9
	Other	876	2	W02	Water Resources; Hydrology; Groundwater	10
TOTAL		5,163	27	W03	Water Supply; Treatment and 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.			
d. SIGNATURE	b. DATE	c. NAME AND TITLE	
	July 20, 2020	Patrick R. Victor, PE, DWRE; Vice President	

# Architect-Engineer Qualifications

## PART II – GENERAL QUALIFICATIONS

<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>			1. SOLICITATION NUMBER (if any):	
2a. FIRM (OR BRANCH OFFICE) NAME			190-0157-NC (SS)	
CDM Smith Inc.			3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET			1947	05-599-0261
3200 Windy Hill Road, Suite 210 West			5. OWNERSHIP	
2c. CITY	2d. STATE	2e. ZIP	a. TYPE	b. SMALL BUSINESS STATUS:
Atlanta	GA	30339	Corporation	Large Business
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Kevin C. Leo, PE, BCEE; Senior Vice President			CDM Smith Inc.	
6b. TELEPHONE NUMBER:		6c. E-MAIL ADDRESS:	8b. YR. ESTABLISHED	8c. DUNS NUMBER
561.273.8864		leokc@cdmsmith.com	1947	05-599-0261
8. FORMER FIRM NAME(S) (if any)				
Camp Dresser & McKee; Camp Dresser & McKee Inc.				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS 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	52	-	A12	Automation; Controls; Instrumentation	8
08	CADD Technician	196	1	C15	Construction Management	10
12	Civil Engineer	410	3	C18	Cost Estimating; Cost Engineering	6
15	Construction Inspector	303	6	E03	Electrical Studies and Design	8
16	Construction Manager	235	1	E09	Environmental Impact Studies	8
18	Cost Estimator	65	-	E12	Environmental Remediation	10
21	Electrical Engineer	158	1	E13	Environmental Testing and Analysis	8
23	Environmental Engineer	613	11	H07	Highways; Streets; Airfield Paving; Parking Lots	9
24	Environmental Scientist	274	1	P06	Planning (Site, Installation, and Project)	9
29	Geographic Information System Specialist	112	1	P07	Plumbing & Piping Design	9
30	Geologist	196	1	R06	Rehabilitation (Buildings; Structures; Facilities)	10
27	Geotechnical Engineer	120	-	R11	Rivers; Canals; Waterways; Flood Control	7
32	Hydraulic Engineer	117	1	S04	Sewage Collection, Treatment and Disposal	10
34	Hydrologist	162	1	S05	Soils & Geologic Studies; Foundations	9
42	Mechanical Engineer	78	-	S07	Solid Wastes; Incineration; Landfill	8
47	Planner	256	4	S09	Structural Design; Special Structures	8
52	Sanitary Engineer	55	-	S11	Sustainable Design	8
57	Structural Engineer	153	2	S13	Storm Water Handling & Facilities	9
58	Technician	558	2	T03	Traffic & Transportation Engineering	8
60	Transportation Engineer	174	4	U04	Utility Design/Coordination/Inspection	9
	Other	876	10	W02	Water Resources; Hydrology; Groundwater	10
TOTAL		5,163	50	W03	Water Supply; Treatment and 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	c. NAME AND TITLE		
		July 20, 2020	Kevin C. Leo, PE, BCEE; Senior Vice President		

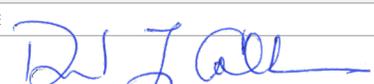
# Architect-Engineer Qualifications

## PART II – GENERAL QUALIFICATIONS

<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>			1. SOLICITATION NUMBER (if any):	
2a. FIRM (OR BRANCH OFFICE) NAME			190-0157-NC (SS)	
CDM Smith Inc.			3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET			1947	05-599-0261
5400 Glenwood Avenue, Suite 400			5. OWNERSHIP	
2c. CITY	2d. STATE	2e. ZIP	a. TYPE	b. SMALL BUSINESS STATUS:
Raleigh	NC	27612	Corporation	Large Business
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
David L. Collins, PE, BCEE; Vice President			CDM Smith Inc.	
6b. TELEPHONE NUMBER:		6c. E-MAIL ADDRESS:	8b. YR. ESTABLISHED	8c. DUNS NUMBER
919.325.3500		collinsdl@cdmsmith.com	1947	05-599-0261
8. FORMER FIRM NAME(S) (if any)				
Camp Dresser & McKee; Camp Dresser & McKee Inc.				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS 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	52	-	A12	Automation; Controls; Instrumentation	8
08	CADD Technician	196	4	C15	Construction Management	10
12	Civil Engineer	410	12	C18	Cost Estimating; Cost Engineering	6
15	Construction Inspector	303	5	E03	Electrical Studies and Design	8
16	Construction Manager	235	3	E09	Environmental Impact Studies	8
18	Cost Estimator	65	2	E12	Environmental Remediation	10
21	Electrical Engineer	158	7	E13	Environmental Testing and Analysis	8
23	Environmental Engineer	613	19	H07	Highways; Streets; Airfield Paving; Parking Lots	9
24	Environmental Scientist	274	3	P06	Planning (Site, Installation, and Project)	9
29	Geographic Information System Specialist	112	4	P07	Plumbing & Piping Design	9
30	Geologist	196	4	R06	Rehabilitation (Buildings; Structures; Facilities)	10
27	Geotechnical Engineer	120	6	R11	Rivers; Canals; Waterways; Flood Control	7
32	Hydraulic Engineer	117	2	S04	Sewage Collection, Treatment and Disposal	10
34	Hydrologist	162	2	S05	Soils & Geologic Studies; Foundations	9
42	Mechanical Engineer	78	1	S07	Solid Wastes; Incineration; Landfill	8
47	Planner	256	3	S09	Structural Design; Special Structures	8
52	Sanitary Engineer	55	3	S11	Sustainable Design	8
57	Structural Engineer	153	8	S13	Storm Water Handling & Facilities	9
58	Technician	558	2	T03	Traffic & Transportation Engineering	8
60	Transportation Engineer	174	7	U04	Utility Design/Coordination/Inspection	9
	Other	876	9	W02	Water Resources; Hydrology; Groundwater	10
TOTAL		5,163	106	W03	Water Supply; Treatment and 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	c. NAME AND TITLE
	July 20, 2020	David L. Collins, PE, BCEE; Vice President

# Architect-Engineer Qualifications

## PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)			1. SOLICITATION NUMBER (if any):	
2a. FIRM (OR BRANCH OFFICE) NAME			190-0157-NC (SS)	
CDM Smith Inc.			3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET			1947	05-599-0261
1100 Marion Street, Suite 300			5. OWNERSHIP	
2c. CITY	2d. STATE	2e. ZIP	a. TYPE	b. SMALL BUSINESS STATUS:
Knoxville	TN	37921	Corporation	Large Business
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Kevin C. Leo, PE, BCEE; Senior Vice President			CDM Smith Inc.	
6b. TELEPHONE NUMBER:		6c. E-MAIL ADDRESS:	8b. YR. ESTABLISHED	8c. DUNS NUMBER
561.273.8864		leokc@cdmsmith.com	1947	05-599-0261
8. FORMER FIRM NAME(S) (if any)				
Camp Dresser & McKee; Camp Dresser & McKee Inc.				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS 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	52	-	A12	Automation; Controls; Instrumentation	8
08	CADD Technician	196	7	C15	Construction Management	10
12	Civil Engineer	410	1	C18	Cost Estimating; Cost Engineering	6
15	Construction Inspector	303	9	E03	Electrical Studies and Design	8
16	Construction Manager	235	-	E09	Environmental Impact Studies	8
18	Cost Estimator	65	2	E12	Environmental Remediation	10
21	Electrical Engineer	158	-	E13	Environmental Testing and Analysis	8
23	Environmental Engineer	613	8	H07	Highways; Streets; Airfield Paving; Parking Lots	9
24	Environmental Scientist	274	4	P06	Planning (Site, Installation, and Project)	9
29	Geographic Information System Specialist	112	-	P07	Plumbing & Piping Design	9
30	Geologist	196	2	R06	Rehabilitation (Buildings; Structures; Facilities)	10
27	Geotechnical Engineer	120	-	R11	Rivers; Canals; Waterways; Flood Control	7
32	Hydraulic Engineer	117	1	S04	Sewage Collection, Treatment and Disposal	10
34	Hydrologist	162	-	S05	Soils & Geologic Studies; Foundations	9
42	Mechanical Engineer	78	-	S07	Solid Wastes; Incineration; Landfill	8
47	Planner	256	1	S09	Structural Design; Special Structures	8
52	Sanitary Engineer	55	-	S11	Sustainable Design	8
57	Structural Engineer	153	2	S13	Storm Water Handling & Facilities	9
58	Technician	558	5	T03	Traffic & Transportation Engineering	8
60	Transportation Engineer	174	13	U04	Utility Design/Coordination/Inspection	9
	Other	876	6	W02	Water Resources; Hydrology; Groundwater	10
TOTAL		5,163	61	W03	Water Supply; Treatment and 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 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 9. \$25 million to less than \$50 million 10. \$50 million or greater	
b. NON-FEDERAL WORK	10				
c. TOTAL WORK	10				

12. AUTHORIZED REPRESENTATIVE. The foregoing is a statement of facts.		
a. SIGNATURE	b. DATE	c. NAME AND TITLE
	July 20, 2020	Kevin C. Leo, PE, BCEE; Senior Vice President

# Architect-Engineer Qualifications

## PART II – GENERAL QUALIFICATIONS

<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>			1. SOLICITATION NUMBER (if any):	
2a. FIRM (OR BRANCH OFFICE) NAME			190-0157-NC (SS)	
CDM Smith Inc.			3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET			1947	05-599-0261
560 North Park Avenue, Suite 300			5. OWNERSHIP	
2c. CITY	2d. STATE	2e. ZIP	a. TYPE	b. SMALL BUSINESS STATUS:
Helena	MT	59601	Corporation	Large Business
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Kevin C. Leo, PE, BCEE; Senior Vice President			CDM Smith Inc.	
6b. TELEPHONE NUMBER:		6c. E-MAIL ADDRESS:	8b. YR. ESTABLISHED	8c. DUNS NUMBER
561.273.8864		leokc@cdmsmith.com	1947	05-599-0261
8. FORMER FIRM NAME(S) (if any)				
Camp Dresser & McKee; Camp Dresser & McKee Inc.				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS 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	52	-	A12	Automation; Controls; Instrumentation	8
08	CADD Technician	196	1	C15	Construction Management	10
12	Civil Engineer	410	4	C18	Cost Estimating; Cost Engineering	6
15	Construction Inspector	303	1	E03	Electrical Studies and Design	8
16	Construction Manager	235	2	E09	Environmental Impact Studies	8
18	Cost Estimator	65	1	E12	Environmental Remediation	10
21	Electrical Engineer	158	-	E13	Environmental Testing and Analysis	8
23	Environmental Engineer	613	10	H07	Highways; Streets; Airfield Paving; Parking Lots	9
24	Environmental Scientist	274	5	P06	Planning (Site, Installation, and Project)	9
29	Geographic Information System Specialist	112	1	P07	Plumbing & Piping Design	9
30	Geologist	196	8	R06	Rehabilitation (Buildings; Structures; Facilities)	10
27	Geotechnical Engineer	120	5	R11	Rivers; Canals; Waterways; Flood Control	7
32	Hydraulic Engineer	117	4	S04	Sewage Collection, Treatment and Disposal	10
34	Hydrologist	162	1	S05	Soils & Geologic Studies; Foundations	9
42	Mechanical Engineer	78	1	S07	Solid Wastes; Incineration; Landfill	8
47	Planner	256	1	S09	Structural Design; Special Structures	8
52	Sanitary Engineer	55	-	S11	Sustainable Design	8
57	Structural Engineer	153	-	S13	Storm Water Handling & Facilities	9
58	Technician	558	1	T03	Traffic & Transportation Engineering	8
60	Transportation Engineer	174	2	U04	Utility Design/Coordination/Inspection	9
	Other	876	2	W02	Water Resources; Hydrology; Groundwater	10
TOTAL		5,163	50	W03	Water Supply; Treatment and 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	c. NAME AND TITLE
	July 20, 2020	Kevin C. Leo, PE, BCEE; Senior Vice President

# Architect-Engineer Qualifications

## PART II – GENERAL QUALIFICATIONS

<i>(If a firm has branch offices, complete for each specific branch office seeking work.)</i>			1. SOLICITATION NUMBER (if any):	
2a. FIRM (OR BRANCH OFFICE) NAME			190-0157-NC (SS)	
CDM Smith Inc.			3. YEAR ESTABLISHED	4. DUNS NUMBER
2b. STREET			1947	05-599-0261
9220 Cleveland Avenue, Suite 100			5. OWNERSHIP	
2c. CITY	2d. STATE	2e. ZIP	a. TYPE	b. SMALL BUSINESS STATUS:
Rancho Cucamonga	CA	91730	Corporation	Large Business
6a. POINT OF CONTACT NAME AND TITLE			7. NAME OF FIRM (if block 2a is a branch office)	
Kevin C. Leo, PE, BCEE; Senior Vice President			CDM Smith Inc.	
6b. TELEPHONE NUMBER:		6c. E-MAIL ADDRESS:	8b. YR. ESTABLISHED	8c. DUNS NUMBER
561.273.8864		leokc@cdmsmith.com	1947	05-599-0261
8. FORMER FIRM NAME(S) (if any)				
Camp Dresser & McKee; Camp Dresser & McKee Inc.				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRMS 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	52	-	A12	Automation; Controls; Instrumentation	8
08	CADD Technician	196	2	C15	Construction Management	10
12	Civil Engineer	410	1	C18	Cost Estimating; Cost Engineering	6
15	Construction Inspector	303	-	E03	Electrical Studies and Design	8
16	Construction Manager	235	13	E09	Environmental Impact Studies	8
18	Cost Estimator	65	6	E12	Environmental Remediation	10
21	Electrical Engineer	158	4	E13	Environmental Testing and Analysis	8
23	Environmental Engineer	613	-	H07	Highways; Streets; Airfield Paving; Parking Lots	9
24	Environmental Scientist	274	3	P06	Planning (Site, Installation, and Project)	9
29	Geographic Information System Specialist	112	-	P07	Plumbing & Piping Design	9
30	Geologist	196	-	R06	Rehabilitation (Buildings; Structures; Facilities)	10
27	Geotechnical Engineer	120	-	R11	Rivers; Canals; Waterways; Flood Control	7
32	Hydraulic Engineer	117	-	S04	Sewage Collection, Treatment and Disposal	10
34	Hydrologist	162	-	S05	Soils & Geologic Studies; Foundations	9
42	Mechanical Engineer	78	-	S07	Solid Wastes; Incineration; Landfill	8
47	Planner	256	-	S09	Structural Design; Special Structures	8
52	Sanitary Engineer	55	-	S11	Sustainable Design	8
57	Structural Engineer	153	-	S13	Storm Water Handling & Facilities	9
58	Technician	558	23	T03	Traffic & Transportation Engineering	8
60	Transportation Engineer	174	-	U04	Utility Design/Coordination/Inspection	9
	Other	876	16	W02	Water Resources; Hydrology; Groundwater	10
TOTAL		5,163	68	W03	Water Supply; Treatment and 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	c. NAME AND TITLE
	July 20, 2020	Kevin C. Leo, PE, BCEE; Senior Vice President

# 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.)

### A. CONTRACT INFORMATION

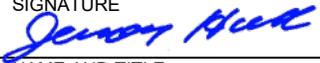
2a. FIRM (OR BRANCH OFFICE) NAME AIM Engineering & Surveying, Inc.			3. YEAR ESTABLISHED 1980	4. DUNS NUMBER 15-279-2537
2b. STREET 2161 FOWLER STREET, SUITE 100			5. OWNERSHIP	
2c. CITY FORT MYERS		2d. STATE FL	2e. ZIP CODE 33901	
6a. POINT OF CONTACT NAME AND TITLE Jerron Hull, PE			a. TYPE CORPORATION	
6b. TELEPHONE NUMBER 239-332-4569		6c. EMAIL ADDRESS JERRON@AIMENGR.COM		
8a. FORMER FIRM NAME(S) (If any)			8b. YEAR ESTABLISHED	8c. DUNS NUMBER
b. SMALL BUSINESS STATUS N/A			7. NAME OF FIRM (If block 2a is a branch office)	

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 b6below)
		(1) Firm	(2) Branch			
02	ADMINISTRATIVE	28	19	S10	Surveying; Platting; Mapping; Flood Plain Studies	6
08	CADD TECHNICIAN	7	7	P06	Planning (Site, Installation, and Project)	5
12	CIVIL ENGINEER	8	7	T03	Traffic and Transportation Engineering	6
15	CONSTRUCTION INSPECTOR	24	24	C15	Construction Management	8
16	CONSTRUCTION MANAGER	1	1	C16	Construction Survey	3
24	ENVIRONMENTAL SCIENTIST	1	0	E11	Environmental Planning	1
38	LAND SURVEYOR	36	27	G04	GIS Services: Development, Analysis, and Data Collection	1
47	PLANNER: URBAN/REGIONAL	2	0	W02	Water Resources: Hydrology Ground Water	5
48	PROJECT MANAGER	12	10	P05	Planning (Community, Regional, Areawide, and State)	1
60	TRANSPORTATION ENGINEER	28	6			
TOTAL		147	101			

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	-	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	8	2. \$100,000 to less than \$250,000	9. \$25 million to less than \$50 million	10. \$50 million or greater	
c. Total Work	8	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 7/15/2020
c. NAME AND TITLE Jerron Hull, PE / President & CEO	





# TAB 3

# KEY PERSONNEL/ QUALIFICATIONS OF THE TEAM

**Tab 3:**  
Key Personnel/Qualifications  
of the Team



**CONTRACT MANAGER**

Patrick R. Victor, PE, DWRE

**PRINCIPAL-IN-CHARGE**

- Jason A. Sciandra, PE

**QUALITY CONTROL/  
TECHNICAL REVIEWS**

Craig C. Montgomery, PE  
Stewart J. Magenheimer, PG, PMP

**PROJECT MANAGER**

Rajendra (Raj) D. Vaidya,  
PhD, PE, PMP, BCEE

**WATER, WASTEWATER,  
RECLAIMED WATER  
TREATMENT, AND  
STORAGE SYSTEMS**



- Brian M. Karmasin, PE, BCEE
- David MacNevin, PhD, PE, LEED AP
- Jorge M. Arevalo, PhD, PE
- Karen R. Lowe, PE, PMP
- Blake E. Harvey
- Sirwan Alimoradi, PhD, PE\*
- Gregory D. Wetterau, PE\*, BCEE
- Gregory T. Isaacs, PE
- Travis Meyer, PE\*
- Charles B. Thaggard, PE

**WATER, WASTEWATER,  
AND RECLAIMED WATER  
CONVEYANCE SYSTEMS**



- Isaac D. Holowell, PE
- Marc C. Stonehouse, PE
- Clay M. Tappan, PE, BCEE
- Dewayne C. Wallace

**ELECTRICAL AND  
INSTRUMENTATION/  
CONTROLS**



- Michael J. Graham, PE
- Cynthia L. Stellmack, PE
- W. Scott Whitmore, PE

**WATER, WASTEWATER,  
AND RECLAIMED  
WATER PLANNING**



- Brian M. Karmasin, PE, BCEE
- Isaac D. Holowell, PE
- Lee P. Wiseman, PE, BCEE
- Carl S. Frizzell, PhD, PE
- Vipin Pangasa, PE, PMP, BCEE
- David J. Prah, PE, BCEE

**GEOTECHNICAL**



- Thomas W. Nichols
- Stephen L. Whiteside, PE
- ● YPC Consulting Group, P.L.

**SUPPORT SERVICES**

**Stormwater/Civil Site**

- James T. Wittig, PE
- Charles B. Thaggard, PE

**Architectural**

Michael T. Alford, AIA, LEED® AP BD+C

**Mapping, Survey and SUE**

- Andrew J. Baranowski, GISP
- AIM Engineering & Surveying, Inc.

**Structural**

Kevin M. Francoforte, PE

**Financial Assistance**

Diane C. Kemp

**Alternative Project Delivery  
and Cost-Estimating**

- Craig A. Gadberry, PE
- Stephen M. Solters

**Construction Administration**

- W. Todd Stevenson
- George E. Reilly, PE
- John S. Chandler

**Environmental Wetlands  
and Protected Species**

Brendan V. Brown, PWS

**SUBCONSULTANTS**

- AIM Engineering & Surveying, Inc.
- YPC Consulting Group, P.L.

- Southwest Florida Staff
- \*PE in State other than FL

## Tab 3: Key Personnel/Qualifications of the Team

### CDM Smith Team Offers the Benefits of Strong **FAMILIARITY** and **TECHNICAL EXCELLENCE**

Our project management team has been tailored to the needs of the North Port with the right mix of local familiarity and technical excellence. **Rajendra (Raj) D. Vaidya, PhD, PE, PMP, BCEE** will serve as our project manager, he offers the City 22 years of relevant experience and is currently serving as project manager on the City's MCWTP Structural Evaluation, SWWTP Design Review, and MCWTP Treatability Evaluation. **Jason A. Sciandra, PE** is serving as principal-in-charge and brings 16 years of wastewater/water experience, including 11 projects for the City. Having worked extensively in varying roles with staff from management to operations, Jason will provide his same proven level of contract oversight to ensure our services on this project exceed City goals and expectations. **Patrick R. Victor, PE, DWRE** will serve as contract manager, he offers 31 years of experience and is responsible for business development in the States of Florida, Alabama, and Louisiana. He offers the corporate commitment to provide the necessary resources to meet the City's goals.

### Rajendra (Raj) D. Vaidya, PhD, PE, PMP, BCEE | Project Manager



22 Years of Project Management and Design Experience



Management for 100 Projects in Florida from planning through construction and commissioning



Identified savings for Pinellas County of \$2.5M

- ✓ Successful track record of driving teams to project completion on schedule and within budget
- ✓ Day to day point of contact for the City and will manage the resources, schedule, budget, and quality of our team's work to meet your expectations
- ✓ Resourceful, take-charge leader with the ability to motivate others and an understanding of the value of close communication between the City and our team
- ✓ Strong relationships with City staff from his experience on City projects

### SEASONED PROJECT MANAGER

Raj will serve as the City's single source of responsibility for management and successful delivery of the projects under the continuing services contract. He will skillfully guide our team and the City through the decision-making process and effectively build consensus among the entire team.

### Personnel and Qualifications

We have included brief highlights of our entire proposed staff which includes their name, role, education, experience, licensing, experience highlights, and availability. SF 330 resumes are included at the end of this section.

### CDM Smith Personnel Resumes

#### Jason A. Sciandra, PE | Principal-in-Charge



**Education:** MBA – Business Administration, MS – Environmental Engineering, BS – Civil Engineering  
**Registration:** Professional Engineer – FL **Years Experience:** 17

#### Value to North Port

- Able to commit the firm's resources and to provide technical as well as administrative oversight to projects, he will ensure that the team makes the most effective use of the vast network of resources available to them to complete projects on time and within the City's budget
- Will be responsible for contract negotiation with the City and ensuring the quality and integrity of the work performed by the CDM Smith team

**Rajendra (Raj) D. Vaidya, PhD, PE, PMP, BCEE | Project Manager**



**Education:** PhD – Environmental Engineering, MS – Environmental Engineering, ME – Civil Engineering, BE – Civil Engineering **Registration:** Professional Engineer – FL, GA, AL **Certification:** Board Certified Environmental Engineer (BCEE); Pipeline Assessment Certification Program (PACP); Project Management Professional (PMP) **Years Experience:** 22

**Value to North Port**

- Experience in municipal infrastructure planning, permitting, and design through construction
- Leads day-to-day project activities to ensure the project meets client satisfaction on budget and schedule, with quality

**Brian M. Karmasin, PE, BCEE | Water, Wastewater, Reclaimed Water Treatment, and Storage Systems; Water, Wastewater, and Reclaimed Water Planning**



**Education:** ME – Environmental Engineering, BS – Environmental Engineering **Registration:** Professional Engineer – FL **Certification:** Board Certified Environmental Engineer (BCEE) **Years Experience:** 22

**Value to North Port**

- Experience in the evaluation, analysis, design, and permitting of municipal WWTPs, including use of the BioWin™ wastewater modeling program
- Experience in the evaluation, analysis, optimization, design, construction, and permitting of municipal wastewater treatment facilities including serving as lead process engineer for expansions/upgrades of nine facilities totaling nearly 200 mgd of permitted treatment capacity

**David MacNevin, PhD, PE, LEED AP | Water, Wastewater, Reclaimed Water Treatment, and Storage Systems**



**Education:** PhD and MS – Environmental Engineering, BS – Civil Engineering **Registration:** Professional Engineer – FL **Certification:** LEED Accredited Professional; **Years Experience:** 14

**Value to North Port**

- Experience in the testing, design, and implementation of water and wastewater treatment systems, nationally-recognized expert in advanced water treatment and distribution system water quality
- Background includes feasibility/pilot studies, full-scale design, facility startup and operations review, and post treatment; Strong grasp of emerging technologies and utility needs means more opportunities to find money for utilities (\$1.2 M in grants awarded to date)

**Jorge M. Arevalo, PhD, PE | Water, Wastewater, Reclaimed Water Treatment, and Storage Systems**



**Education:** PhD – Environmental Engineering; MS – Environmental Engineering; BS – Chemical Engineering **Registration:** Professional Engineer – FL **Years Experience:** 16

**Value to North Port**

- Specialized water treatment experience related to membrane treatment system, water and wastewater treatment plant design, and pilot plant operations
- Has conducted research on water quality modeling, specifically chlorine dissipation in drinking water distribution systems

**Karen R. Lowe, PE, PMP | Water, Wastewater, Reclaimed Water Treatment, and Storage Systems**



**Education:** BS – Civil Engineering **Registration:** Professional Engineer – FL  
**Certification:** Project Management Professional **Years Experience:** 13

**Value to North Port**

- Experience with completing pipeline design, reclaimed water system feasibility studies, wastewater and water treatment facility expansion design, pump station upgrade hydraulic design, asset management assessments, permitting, public meeting assistance, economic evaluations, stormwater management review, and project management
- Florida and Southeast US pipeline design experience including 75,000 lf of pipeline in Florida and 55,000 lf in other states for a total of 130,000 lf of pipeline design

**Blake E. Harvey | Water, Wastewater, Reclaimed Water Treatment, and Storage Systems**



**Education:** BS- Environmental Engineering **Years Experience:** 3

**Value to North Port**

- North Port experience includes S. Biscayne Dr & Pan American Blvd Bridge Pipeline Replacements and the Bobcat Village Force Main Replacement his responsibilities include reviewing and updating project specifications, performing quantity takeoffs of project materials, and making CAD revisions as per reviewers comments

**Sirwan Alimoradi, PhD, PE | Water, Wastewater, Reclaimed Water Treatment, and Storage Systems**



**Education:** PhD – Environmental Engineering, MS – Environmental Engineering, BS – Chemical Engineering **Registration:** Professional Engineer – MI **Years Experience:** 5

**Value to North Port**

- Environmental engineer with knowledge of wastewater treatment processes and technologies; software skills include BioWin, SUMO, PHREEQC (Speciation, Batch-Reaction, and Inverse Geochemical Calculations), R Studio, SimaPro (LCA), MINTEQA2, Microsoft Office Word/Excel/PowerPoint/Outlook, AutoCAD, MATLAB, MathCAD, Python, Aspen, and GIS

**Gregory D. Wetterau, PE, BCEE | Water, Wastewater, Reclaimed Water Treatment, and Storage Systems**



**Education:** MS – Environmental Engineering; BS – Civil Engineering; BA – Liberal Arts  
**Registration:** Professional Engineer – WA, OR, CA **Certification:** Board Certified Environmental Engineer (BCEE) **Years Experience:** 25

**Value to North Port**

- Experience in engineering and project management for planning, design, and construction phases of water and wastewater projects and a recognized international expert in the implementation of membrane treatment technologies
- Primary expertise includes process and system design for membrane filtration, desalination, and advanced wastewater treatment facilities

**Gregory T. Isaacs, PE | Water, Wastewater, Reclaimed Water Treatment, and Storage Systems**



**Education:** BS – Civil Engineering **Registration:** Professional Engineer – FL, IN, KY, OH, TN, VA  
**Years Experience:** 20

**Value to North Port**

- Experience includes water and wastewater engineering, including evaluations, planing, modeling, and design; comprehensive knowledge of utility planning and design, treatment plants, pump stations, tanks and conveyance systems, water/wastewater modeling
- Design experience in the water and wastewater industry, serving as design engineer and resident project representative for 20 individual WWTP project at 15 different WWTPs in Florida

**Travis Meyer, PE | Water, Wastewater, Reclaimed Water Treatment, and Storage Systems**



**Education:** MS – Environmental Engineering, BS – Civil Engineering  
**Registration:** Professional Engineer – MT, CO **Years Experience:** 27

**Value to North Port**

- Civil and environmental engineering specializing in nutrient removal technologies including both biological and chemical processes for municipal and industrial water/wastewater treatment and contaminated groundwater projects
- Project background includes wastewater collection systems, pumping stations, distribution systems and treatment facilities.

**Charles B. Thaggard, PE | Water, Wastewater, Reclaimed Water Treatment, and Storage Systems; Stormwater/Civil Site**



**Education:** BS – Environmental Engineering **Registration:** Professional Engineer – FL  
**Years Experience:** 8

**Value to North Port**

- Experience in hydraulics, hydrology, water chemistry, wastewater and water treatment, fluid mechanics, geology, and water resources design
- Local Southwest Florida project experience includes intimate familiarity with local permitting agencies such as SFWMD, FDEP, USACE, and local building and site development departments

**Isaac D. Holowell, PE | Water, Wastewater, and Reclaimed Water Conveyance Systems; Water, Wastewater, and Reclaimed Water Planning**



**Education:** BS – Civil Engineering **Registration:** Professional Engineer – FL **Years Experience:** 7

**Value to North Port**

- Environmental engineer with experience focused on hydraulics and pumping applications but also has experience in process mechanical piping, pressure pipe, and sanitary sewer design
- Experience with software such as: ESRI ArcGIS, Autodesk AutoCAD Civil 3D, Innovyze InfoWater, Innovyze InfoWorks ICM, Bentley WaterGEMS, MS Office, EPANET, and Visual Hydraulics

**Marc C. Stonehouse, PE | Water, Wastewater, and Reclaimed Water Conveyance Systems**



**Education:** MSE – Environmental Engineering; BS – Engineering **Registration:** Professional Engineer – FL, MI **Certification:** Project Management Professional **Years Experience:** 22

**Value to North Port**

- Senior environmental engineer with experience in planning, analysis, hydraulic modeling, design and construction services for water, wastewater, stormwater and reclaimed water utilities
- Local design manager with experience that includes 52+ wastewater/water projects totaling more than \$300M—all in Southwest Florida

**Clay M. Tappan, PE, BCEE | Water, Wastewater, and Reclaimed Water Conveyance Systems**



**Education:** MS – Engineering Management; BS – Environmental Engineering **Registration:** Professional Engineer – FL **Certification:** Board Certified Environmental Engineer (BCEE) **Years Experience:** 36

**Value to North Port**

- Nationally-recognized pipeline expert; designed 1,200+ miles of pipeline (6- to 120-in dia.)
- Responsible for the design of 150,000 lf of pipeline installed using HDD; trenchless experience resulting in cost savings at major road crossings, wetlands, and streams; experienced in Florida regulatory permitting and approval necessary for construction of Florida pipeline projects

### Dewayne C. Wallace | Water, Wastewater, and Reclaimed Water Conveyance Systems



**Education:** BS – Environmental Engineering **Years Experience:** 5

**Value to North Port**

- Experience in water quality analysis, construction management, and the FDEP permitting process for wastewater treatment plants and collection, transmission, and distribution systems
- City of North Port experience includes the 2017 Lift Station Rehabilitation and Bobcat Village Force main Replacement projects

### Lee P. Wiseman, PE, BCEE | Water, Wastewater, and Reclaimed Water Conveyance Systems



**Education:** MS – Environmental Engineering; BS – Microbiology **Registration:** Professional Engineer – FL  
**Certification:** Board Certified Environmental Engineer (BCEE) **Years Experience:** 35

**Value to North Port**

- Experience in applying various analytical and numerical models to simulate groundwater flow, mass transport, and water quality
- Involved in first Florida aquifer recharge feasibility projects; developed technical information, addressed regulatory issues, estimated recharge costs, determined feasibility with complex groundwater models

### Carl S. Frizzell, PhD, PE | Water, Wastewater, and Reclaimed Water Conveyance Systems



**Education:** PhD – Civil Engineering; MS – Civil Engineering; BS – Civil Engineering  
**Registration:** Professional Engineer – FL, GA **Years Experience:** 17

**Value to North Port**

- One of CDM Smith’s senior hydraulic specialist for wastewater hydraulics and pump station design
- Significant experience designing and modifying a variety of hydraulic structures to improve flow conditions

### Vipin Pangasa, PE, PMP, BCEE | Water, Wastewater, and Reclaimed Water Conveyance Systems



**Education:** MS – Civil (Environmental) Engineering; MS – Chemistry; BS – Civil Engineering  
**Registration:** Professional Engineer (FL) **Certification:** Project Management Professional (PMP); Board Certified Environmental Engineer (BCEE) **Years Experience:** 30

**Value to North Port**

- Project management experience on major WWTP design and construction projects throughout Florida including wastewater treatment plants, wastewater processes, biosolids processes, pump stations, water and wastewater collection/distribution and transmission systems, hydraulic modeling, odor control, as well as various types of permitting activities
- Project manager for numerous projects utilizing tertiary treatment and beneficial reuse, including design and rehabilitation of high-level disinfection and high-purity oxygen systems

### David J. Prah, PE, BCEE | Water, Wastewater, and Reclaimed Water Conveyance Systems



**Education:** BSE – Environmental Engineering **Registration:** Professional Engineer – FL  
**Certification:** Board Certified Environmental Engineer (BCEE) **Years Experience:** 34

**Value to North Port**

- Experience including facilities design, construction management services, water distribution, wastewater collection and transmission, and water and wastewater treatment plant design
- Provided disinfection design and project management services for more than 150 mgd of WTPs in Florida over the past ten years, including three decades of water treatment focused in Florida

**Michael J. Graham, PE | Electrical and Instrumentation/Controls**



**Education:** BS – Mechanical Engineering **Registration:** Professional Engineer – FL, TN, MN  
**Years Experience:** 27

**Value to North Port**

- 26 years of local experience as an instrumentation, control, and communications system engineer for water/wastewater projects with proficiency in design, specification, and implementation of PLCs, process control systems, and programming
- I&C expertise includes CAD generated P&IDs, electrical, site layout, and computer configuration drawings for water and wastewater facilities

**Cynthia L. Stellmack, PE | Electrical and Instrumentation/Controls**



**Education:** BS – Electrical Engineering **Registration:** Professional Engineer – FL **Years Experience:** 39

**Value to North Port**

- Experience includes design, installation and operating experience with switchgear, medium voltage cable, motor control centers (MCCs), transformers, uninterruptible power systems (UPS), standby generators, frequency converters, variable frequency drives (VFDs), switchboards, and panelboards
- Electrical design experience includes coordination with electric utilities and other engineering disciplines, calculations, and the preparation of design documents which include drawings, schedules and specifications

**W. Scott Whitmore, PE | Electrical and Instrumentation/Controls**



**Education:** BS – Mechanical Engineering **Registration:** Professional Engineer – FL, AL, SC, TN  
**Years Experience:** 26

**Value to North Port**

- Experience in process automation and supervisory control and data acquisition (SCADA) systems, primarily for municipal water treatment and reclamation facilities
- Design engineering experience includes the development of process controls and network architectures, specification and selection of instrumentation and controls and related equipment for a variety of applications, master planning, equipment and system testing, and field startup

**Thomas W. Nichols | Geotechnical**



**Education:** ME – Civil Engineering; BS – Civil Engineering **Years Experience:** 39

**Value to North Port**

- Expertise in project management, geotechnical, hydrogeological, geo-environmental, and dam engineering services, with extensive experience in geotechnical investigations and design recommendations for roadways and pavements, pipelines, landfills, waterfront structures, foundations for water and wastewater treatment plants, commercial buildings, reservoirs and dams, soft ground improvements, groundwater lowering, and sinkhole investigations

**Stephen L. Whiteside, PE | Geotechnical**



**Education:** Engineer Degree – Geotechnical Engineering; MS – Geotechnical Engineering; BS – Civil Engineering **Registration:** Professional Engineer – FL, MA, NC, SC, VA, GA, AL, TN, KY, LA, AR  
**Years Experience:** 44

**Value to North Port**

- Senior geotechnical that has managed large complex projects with a total value of over \$120M for services including intake, pipeline and pump station engineering and geotechnical design for water infrastructure projects
- Extensive experience includes inspection of concrete and embankment dams and levees; design of new roller compacted concrete (RCC) dams, embankment dams, and levees; and design of other rehabilitation measures for existing concrete

**James T. Wittig, PE | Civil/Site**



**Education:** ME – Environmental Engineering, ME – Industrial and Systems Engineering, BS – Environmental Engineering **Registration:** Professional Engineer – FL **C Years Experience:** 34

**Value to North Port**

- Extensive experience in the design, evaluation, and permitting of water resources and stormwater related projects, including site design and layout, and alternatives analysis
- Often responsible for project evaluations which consider topography, hydrology, hydraulics, geologic conditions, wetlands, floodplains, water quality, permitting, constructability, and cost factors

**Michael T. Alford, AIA, LEED® AP BD+C | Architectural**



**Education:** Master – Architecture; BS – Architectural Studies **Registration:** Professional Architect (FL, SC, NC, GA, TN, AL, KY, VA, WA) **Certification:** National Council of Architectural Registration Boards (NCARB); Leadership in Energy and Environmental Design Accredited Professional – Building Design & Construction (LEED® AP BD+C) **Years Experience:** 22

**Value to North Port**

- Experience including programming, schematic design, design development, construction documents, construction administration, code compliance and the use of 3D/4D and BIM
- Relevant experience includes the preparation of planning and feasibility studies, property condition assessment surveys, and Americans with Disabilities Act (ADA) evaluations for new construction, building additions, alterations, interior space planning, and remodeling for public and private clients

**Andrew J. Baranowski, GISP | Mapping, Survey, and SUE**



**Education:** BA – General Studies **Certification:** Geographic Information Systems Professional Certification **Years Experience:** 31

**Value to North Port**

- Geographic information systems (GIS) data conversion specialist with a strong background in underground utility data conversion; served as project technical coordinator/conversion manager responsible for all GIS and technical activities for an ARC/INFO-based project that involved the database design and data conversion of five layers of infrastructure for the City of Miami Beach

**Kevin M. Francoforte, PE | Structural**



**Education:** MS – Structures and Foundations, BS – Mechanical Engineering **Registration:** Professional Engineer – FL **Certification:** Confined Space Entry **Years Experience:** 15

**Value to North Port**

- Design and analysis for both new and existing structures, including water and wastewater treatment plant structures, facilities and industrial structures; responsibilities include structural design and analysis, preparation of contract drawings, specifications, condition assessments, structural scope and fee estimates and services during construction

**Diane C. Kemp | Financial Assistance**



**Education:** BA – Economics and Accounting **Years Experience:** 38

**Value to North Port**

- Brings a comprehensive understanding of the Project’s State Revolving Funds (SRF) requirements with experience attending and participating in pre-construction meetings and providing and explaining the forms that are required per the Davis-Bacon, the Disadvantaged Business Enterprise (DBE), and Buy American Iron language, as well as any additional reporting or paper work requirements

**Craig A. Gadberry, PE | Alternative Project Delivery and Cost Estimating**



**Education:** BS – Civil Engineering **Certification:** Professional Engineer – FL **Years Experience:** 27

**Value to North Port**

- Experience in water supply construction and CDM Smith’s leading authority on estimation in the southeast US who provides Engineer’s Opinion of Probable Cost of Construction (OPCC) Estimates and regularly provides estimates for environmental facilities; skilled in the use of software packages including Timberline, Primavera, and Insite Sitework
- Responsibilities include preparation of feasibility and conceptual estimates, preliminary and final design estimates, detailed bid estimates, and change order pricing

**Stephen M. Solters | Alternative Project Delivery and Cost Estimating**



**Education:** Coursework, Business Administration and Life Sciences; Coursework, NYU School of Real Estate and Construction Technology **Years Experience:** 44

**Value to North Port**

- Well-respected and seasoned Florida construction manager whose entire career has been focused on Florida environmental infrastructure construction; industry and alternative project delivery (APD) veteran who will apply lessons learned from award-winning APD projects totaling \$450M+

**W. Todd Stevenson | Construction Administration**



**Years Experience:** 30

**Value to North Port**

- Diversified experience in engineering, surveying, inspection, and construction management; areas of expertise include construction observation, surveying and managing plant and pipeline construction projects

**George E. Reilly, PE | Construction Administration**



**Education:** BS – Civil Engineering **Registration:** Professional Engineer – FL **Years Experience:** 50

**Value to North Port**

- Extensive experience in quality management/value management including technical review, value engineering, and cost estimating in unified review process
- Experience includes over 20 years of municipal service, 11 of which he was either director or manager of a utility department and oversaw the expansion and implementation more than \$1.2 billion in capital improvements

**John S. Chandler | Construction Administration**



**Education:** BA – Mathematics **Years Experience:** 38

**Value to North Port**

- Experience providing project management, bid preparation, construction management, and engineering and design services related to a variety of Florida projects including water and wastewater plants; water, sewer and storm pipeline projects; and engineering and marine construction projects
- Responsibilities have included constructability reviews, budgeting and scheduling, permitting, report preparation, construction layout, and bid preparation

**Brendan V. Brown, PWS | Environmental Wetlands and Protected Species**



**Education:** MS – Biological Science; BS – Forest Environmental Resources  
**Certification:** Professional Wetland Scientist (PWS) **Years Experience:** 15

**Value to North Port**

- Environmental scientist who has led environmental data collection teams on several large wetland projects totaling over 16,000 acres; including wetland delineation, wetland habitat assessment, listed species documentation, Rosgen stream classification, Bank Erosion Hazard Index (BEHI) surveys, wildlife surveys, threatened and endangered species surveys, tree and plant surveys, and lake vegetation surveys
- Has completed USACE nationwide and individual permits and prepared mitigation plans; has also assisted in NEPA documentation and technical review

**Craig C. Montgomery, PE | Quality Control/Technical Reviews**



**Education:** ME – Environmental Engineering; BS – Environmental Engineering  
**Registration:** Professional Engineer – FL **Years Experience:** 33

**Value to North Port**

- Florida design experience in water supply, intake systems, pump stations, and hydraulic structures having delivered more than \$50M in constructed costs
- Expert with respect to flow and its interdependence with conveyance structures and equipment
- Extensive experience with hydraulic design and operation of water supply and pump stations, including design of raw water intakes

**Stewart J. Magenheimer, PG, PMP | Quality Control/Technical Reviews**



**Education:** MSc – Geology; MBA – Business Administration; BSc – Geology  
**Registration:** Professional Geologist – FL **Years Experience:** 34

**Value to North Port**

- Experience in working with local (Southeast Florida), state, and federal regulators and regulations on environmental and construction issues
- Has served as lead hydrogeologist for more than 100 mgd capacity of screened and rock well design and construction in the karst Biscayne aquifer and surficial aquifer system (depths to 200 feet) and karst Floridan aquifer (depths to 1,400 feet)

**Subconsultant Partners with Shared a Commitment and Proven Performance**

In addition to the vast in-house resources of CDM Smith, we have also added two outstanding local companies as subconsultants on this contract. Our comprehensive team brings the invaluable experience of having worked together on previous assignments. Together with our subconsultants, we have formed a fully responsive team structured to meet the City’s project needs.

**AIM Engineering & Surveying, Inc. (AIM) | Mapping, Survey and SUE**

Located in Fort Myers, FL, AIM is a full-service planning, engineering, and surveying company that offers professional services tailored to the size and complexity of each project. Since 1980, AIM has earned a reputation for delivering innovative, cost-effective solutions. With exceptional people as their foundation, AIM’s goal is to cultivate a culture of success and provide the highest quality of service to their clients.



**YPC Consulting Group, P.L. (YPC) | Geotechnical**

YPC is a full-service geotechnical engineering, environmental consulting, construction materials testing, and inspection company based in Fort Myers, FL. The professionals at YPC have vast experience throughout Florida with deep pile foundation installation, static pile load testing, dynamic pile load testing, vibroreplacement/vibrocompaction ground improvement techniques, rock blasting, vibration monitoring, structural inspections, pre-construction structure condition surveys, geotechnical exploration and engineering, geoenvironmental consulting, and construction materials testing.



12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
Jason A. Sciandra, PE; Principal		Principal in Charge		a. TOTAL	17
				b. WITH CURRENT FIRM	16
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Fort Myers, FL					
16. EDUCATION (degree and specialization)			17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)		
MBA – Business Administration; MS – Environmental Engineering; BS – Civil Engineering			Professional Engineer (FL)		
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
Member, Water Environment Federation					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)		(2) Year Completed		
	<b>EOR Contract, City of Fort Myers, FL</b>		Professional Services	Construction (If Applicable)	
			<b>Ongoing</b>	<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p><b>Principal-in-Charge/Project Manager.</b> Jason oversees all work performed under the EOR contract. The contract has included numerous projects at the City’s two advanced wastewater treatment facilities (AWWTFs) including: Biosolids Evaluation including pilot study, Capacity Analysis Reports for both plants, renewal of the operating permit for both plants, evaluation, design and construction services for structural improvements, evaluation, preliminary design, and design and construction phase owner’s representative services for electrical improvements, evaluation of the reclaimed water disinfection system, Pretreatment Local Limits Re-evaluation, annual reuse reports, Reclaimed Water Supply and Demand Report Update, and evaluation of influent flow contributions.</p>					
b.	(1) TITLE AND LOCATION (City and State)		(2) Year Completed		
	<b>Three Oaks Wastewater Treatment Plant (WWTP) Facility Upgrade, Lee County, FL</b>		Professional Services	Construction (If Applicable)	
			<b>2018</b>	<b>2018</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p><b>Principal-in-Charge/Construction Management Support.</b> CDM Smith provided preliminary design, final design, permitting, and construction administration services for the upgrade of the Three Oaks WWTP to achieve a biological treatment capacity of 6-mgd average daily flow (ADF) with considerations for future expansion to 8-mgd ADF. Jason served as principal-in-charge and provided construction management support for this project.</p>					
c.	(1) TITLE AND LOCATION (City and State)		(2) Year Completed		
	<b>Electrical Upgrades, City of Fort Myers, FL</b>		Professional Services	Construction (If Applicable)	
			<b>Ongoing</b>	<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p><b>Project Manager/Principal-in-Charge.</b> Jason was the project manager and is now the principal-in-charge for the City of Fort Myers’ South and Central AWWTF. CDM Smith prepared a Preliminary Design Report (PDR) for electrical upgrades to the AWWTFs, oversaw the project design and bidding and is now serving as the City’s representative during construction.</p>					
d.	(1) TITLE AND LOCATION (City and State)		(2) Year Completed		
	<b>Bobcat Village Force Main Replacement, City of North Port, FL</b>		Professional Services	Construction (If Applicable)	
			<b>Ongoing</b>	<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p><b>Principal-in-Charge.</b> The proposed project includes design, permitting, and construction engineering services to replace 3,000 linear feet (LF) of 8-inch sanitary sewer force main on Bobcat Trail Golf Course and South Toledo Blade Boulevard for the City of North Port. Jason served as principal-in-charge for this project involving pipeline design and calculations, bid services, general services during construction, and overall management of the project.</p>					

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
Patrick R. Victor, PE, DWRE		Contract Manager		a. TOTAL	31
				b. WITH CURRENT FIRM	22
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Jacksonville, FL					
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)	
ME – Master of Engineering; BS – Agricultural Engineering				Professional Engineer (FL)	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
American Public Work Association; Florida Water Environmental Association; Society of American Military Engineers; Water Environment Federation					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Water Treatment Plant Permitting, Design, and Services During Construction, City of St. Augustine, 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"/> PERFORMED WITH CDM SMITH		
<p><b>Officer-in-Charge.</b> CDM Smith assisted the City of St. Augustine in expanding and upgrading their lime softening water treatment plant (WTP) to provide a dual process plant that is rated at 4.5 million gallons per day (mgd) finished water capacity for lime softened water and a low pressure reverse osmosis (LPRO) membrane facility rated at 2 mgd. We modified the City’s Consumptive Use Permit (CUP) to increase withdrawals from the upper floridan aquifer (UFA) and installed three new UFA wells to supply the new membrane facility. We completed NPDES and ERP Permitting activities for a new outfall from the WTP membrane facility to the San Sebastian River. Permitting activities included a field sampling program, biological studies, bioassay testing, mixing zone analysis, and diffuser design.</p>					
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Arbennie Pritchett WRF Expansion, Okaloosa County Water and Sewer Department, Okaloosa, 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"/> PERFORMED WITH CDM SMITH		
<p><b>Principal-in-Charge.</b> CDM Smith was selected by Okaloosa County Water and Sewer Department to design and construct a Carrousel oxidation ditch, secondary clarifier, return activated sludge (RAS) pumping station, UV disinfection system, and effluent pumping system for a 5 mgd expansion to the existing WRF. Mr. Victor is responsible for contract oversight and ensuring the overall client satisfaction with the services provided.</p>					
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Northwest Water Reclamation Facility (NW WRF) Final Design and Construction Services, St. Johns County, FL</b>			Professional Services	Construction (If Applicable)
				2016	N/A
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<p><b>Officer-in-Charge.</b> Mr. Victor is overseeing services during construction for the new 3-mgd regional WRF to provide for the wastewater treatment needs of the developments located in the Northwest service area. The new \$25 million NW WRF is an Advanced Wastewater Treatment (AWWT) facility using 4-stage Bardenpho process to produce high quality effluent for irrigation, filtration, ultraviolet (UV) system for disinfection, and belt press filter and sludge treatment.</p>					
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Bradley Road Master Wastewater Pump Station Improvements Preliminary Design Report (PDR), JEA, Jacksonville, 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"/> PERFORMED WITH CDM SMITH		
<p><b>Officer-in-Charge.</b> CDM Smith was selected to develop the PDR for the Bradley Road Wastewater Pump Station upgrade evaluation. The Bradley Road Master Pump Station is a key component of JEA’s wastewater collection and transmission system and has increased in importance over time with the addition of an expanded service area. Mr. Victor served as officer-in-charge for the development of the PDR, which evaluated the existing station condition and recommended alternative design improvements. One such alternative included the design of a new above ground in-line booster pump station, which CDM Smith recommended as our preferred alternative. The PDR was completed and submitted in early 2015 and will be used as JEA’s basis for award for the future design project.</p>					

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
<b>Rajendra (Raj) D. Vaidya, PhD, PE, PMP, BCEE</b>		Project Manager		a. TOTAL	22	b. WITH CURRENT FIRM	8
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Tampa, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
PhD – Environmental Engineering, MS – Environmental Engineering, ME – Civil Engineering, BE – Civil Engineering				Professional Engineer (FL, GA, AL)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
Board Certified Environmental Engineer (BCEE); Project Management Professional (PMP)							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Water Portfolio for Tampa Bay Water, FL</b>			Professional Services	Construction (If Applicable)		
				<b>Ongoing</b>	<b>N/A</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Manager/Technical Specialist.</b> As a technical specialist and Project Manager provide assistance to various EOR's and manage a portfolio of projects. Projects includes professional services from design through construction for replacement of a 700 H.P pump at the High Service Pump Station, automation of slide gates at three control structures along Tampa Bypass canal, providing a new warehouse and administration building at Cypress Creek facility and building entrance modifications at a WTP with 120 mgd capacity. As a technical specialist and Project Manager provide assistance to various EOR's and manage a portfolio of projects. Projects includes professional services from design through construction for replacement of a 700 H.P pump at the High Service Pump Station, automation of slide gates at three control structures along Tampa Bypass canal, providing a new warehouse and administration building at Cypress Creek facility and building entrance modifications at a WTP with 120 mgd capacity. Projects in construction with approximate construction costs of \$2.5 Million</p>							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Portfolio of Projects for Pinellas County, FL</b>			Professional Services	Construction (If Applicable)		
				<b>Ongoing</b>	<b>N/A</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Manager/Technical Specialist.</b> As a technical specialist and or project manager provide guidance and oversight to team of engineers and lead process specialist for project delivery. Projects include, modifications to pre-treatment process at an Industrial WTP which is having operational issues with pre-treatment and RO membrane treatment performance, determine feasibility of coagulant change at this WTP, ditch slope stability rehabilitation work and stormwater/leachate management control over a large regional landfill site.</p>							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>City-Wide Sanitary Sewer Assessment, Plant City, FL</b>			Professional Services	Construction (If Applicable)		
				<b>2017</b>	<b>N/A</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Manager and Engineer-of-Record (EOR).</b> Conducted a City-wide sanitary sewer assessment for Plant City. The project included mapping entire gravity sewer system manholes and inspection of 80 miles of sewers including 24 miles of large diameter (&gt;24 inch) sewers and provided GIS inventory of assets, inspection information and planning level CIP in ready to budget portable format. The planning level CIP provided the City commission a mechanism to plan and budget for a phased gravity sewer asset management type program without expending for such a program at a desired level of service.</p>							
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Wastewater Treatment Plant (WWTP) No. 3 Projects, City of Winter Haven, FL</b>			Professional Services	Construction (If Applicable)		
				<b>2017</b>	<b>N/A</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Manager and Engineer-of-Record (EOR).</b> Dr. Vaidya provided engineering services for multiple projects at the City of Winter Haven's WWTP No. 3. Projects included design and permitting services for the addition of mechanical screens for the City's WWTP No. 3, optimization of the solids-handling system at WWTP No. 3 to reduce annual sludge-disposal costs, and updating the O&amp;M manual for the City's WWTP No. 3 to reflect changes in the reclaimed water management operations due to facility upgrades of added chlorination and dechlorination/reaeration process units and reclaimed water storage. Construction Cost: \$1.7M</p>							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
Craig C. Montgomery, PE		Quality Control/Technical Reviews		a. TOTAL	33
				b. WITH CURRENT FIRM	31
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Tampa, FL					
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)	
ME – Environmental Engineering; BS – Environmental Engineering				Professional Engineer (FL)	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
Member, Water Environment Federation					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>Loop System Phase 3B Interconnect Third Party Review, Southwest Florida Water Management District (SWFWMD), 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"/> PERFORMED WITH CDM SMITH	
<p><b>Project Engineer.</b> As a condition of a co-funding agreement between the SWFWMD and the Peace River/Manasota Regional Water Supply Authority (PRMRWSA), SWFWMD contracted with CDM Smith to conduct a third-party independent review of a Basis of Design Report (BODR) that established routing and sizing criteria for the Phase 3B expansion of PRMRWSA's looped water transmission system. The looped system consists of multiple pump stations and storage facilities and approximately 65 miles of large diameter transmission mains. As project engineer, Craig was responsible for determining whether the bases for identification of potential routes for the Phase 3B transmission main were reasonable; whether the BODR's assessments of relative environmental impacts of the various routes considered were reasonable; and to assess whether the BODR failed to identify any major permits that would be required for the project. As part of this project he also determined whether the BODR's assessments of relative life safety risks or other project risks associated with the various routes were reasonable and if the BODR overlooked any major utility conflicts or other issues that could require special construction and could adversely affect the feasibility or cost of the selected alternative. Craig evaluated if the scoring methodologies used to rank the various route alternatives were reasonable, and provided technical review of hydraulic analyses performed by other project team members. Craig was the primary author of the technical memorandum that presented the results of CDM Smith's third-party review.</p>					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>Town of Belleair Wastewater System Acquisition, Pinellas County, FL</b>				Professional Services	Construction (If Applicable)
				2007	N/A
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>Senior Project Engineer.</b> Pinellas County acquired the Town of Belleair's wastewater collection system and WWTP. As a condition of a Consent Order from FDEP, Pinellas County agreed to decommission the WWTP and construct a new pump station and force main necessary to route the town's wastewater to the County's South Cross Bayou WWTP. As part of the agreement with the town, the County also agreed to construct a reclaimed water main to return reclaimed water to the town for golf course irrigation. Craig prepared a preliminary engineering report (PER) that evaluated various pump station and force main alternatives, and led the design of the new wastewater pump station. Construction of the pump station was completed during 2007. The new master pump station has a design peak capacity of approximately 2.5-mgd. The design includes a single 12-foot diameter wet-well with three 100-HP variable-speed submersible pumps, a separate electrical/generator building, and a bio filter odor control system.</p>					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>Air-Backwash System Modifications at the Tampa Bypass Canal Pump Station, Tampa Bay Water, Tampa, FL</b>				Professional Services	Construction (If Applicable)
				2016	N/A
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>Project Manager.</b> Craig served as the project manager for the Tampa Bypass Canal Pump Station Air-Burst System Modifications project. This project was performed under an "as-needed" services type contract between CDM Smith and Tampa Bay Water. This project included installation of new indoor air compressors, relocation of the existing air-backwash system control panel, replacement of air-backwash piping and pneumatic valves, conduit and wiring modifications, and programming changes.</p>					

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
Stewart J. Magenheimer, PG, PMP		Quality Control/Technical Reviews		a. TOTAL	34	b. WITH CURRENT FIRM	31
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Boca Raton, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
MSc – Geology; MBA – Business Administration; BSc – Geology				Professional Geologist (FL)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
Project Management Professional							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Continuing Wellfield Technical Services, City of Boca Raton, FL			Professional Services		Construction (If Applicable)	
				Ongoing		Ongoing	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Project Manager and Lead Hydrogeologist. As part of a multiple year program to manage the City’s six wellfields, Mr. Magenheimer has been providing support to the City through wellfield performance records review, preparing quarterly reports, developing well repair and rehabilitation plans, and assisting the City as needed with ongoing maintenance, rehabilitation, and optimization efforts.							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Water Supply Wells 28W, 31W, and 33W, City of Boca Raton, FL			Professional Services		Construction (If Applicable)	
				2012		2012	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Project Manager and Lead Hydrologist. Mr. Magenheimer served as the project manager for design and bidding phases and served as lead hydrologist for the final design of the three new Biscayne Aquifer raw water production wells; and approximately 9,000 linear feet of 12-, 14-, and 18-inch raw water piping, including associated electrical, instrumentation, and site improvements for the City. This project was completed on-time and on-budget							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Broward County Integrated Water Resource Master Plan, Broward County Department of Natural Resource Protection, FL			Professional Services		Construction (If Applicable)	
				2009		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Project Manager. This project was part of a multiyear undertaking by Broward County to develop a plan for satisfying the region’s water supply and water resource goals for the period ending in 2025, by using improvements in the water management and water supply system that are compatible with state and federal program goals. To accomplish the analysis required for the plan, an integrated groundwater/surface water model was developed for Broward County, which investigated water management practices using MIKE SHE/MIKE 11 models. Based on the models, interactions with groundwater sources, saltwater intrusion, flood hazard, wetlands sustainability, and the regional water delivery system were evaluated and quantified. Mr. Magenheimer served as project manager coordinating the data collection, modeling, and the coordination of stakeholder involvement and subconsultant project work.							
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Irrigation Quality Water (Supplemental Supply) Wellfield Rehabilitation, Collier County, FL			Professional Services		Construction (If Applicable)	
				2015		2015	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Technical Reviewer. In order to increase system reliability, meet current and projected demands, and reduce the amount of irrigation quality (IQ) water that cannot be used due to seasonal fluctuations in demand, Collier County hired CDM Smith to perform an evaluation of two supplemental IQ water wellfields. We reviewed historic operational data, results of regularly performed step pumping rate drawdown tests, previous rehabilitation reports, and video logs of the wells. We prepared a memorandum summarizing its findings and recommending rehabilitation activities to increase wellfield capacity. CCPUD authorized us to prepare bid specifications for the rehabilitation work and to provide construction phase engineering services including field oversight of the work. Mr. Magenheimer served as technical reviewer for this project responsible for development of the specifications, assisting CCPUD in procuring the work and management of the construction phase services.							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
Brian M. Karmasin, PE, BCEE		Water, Wastewater, Reclaimed Water Treatment and Storage Systems; Water, Wastewater, and Reclaimed Water Planning		a. TOTAL	22	b. WITH CURRENT FIRM	21
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Orlando, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
ME – Environmental Engineering; BS – Environmental, Engineering				Professional Engineer (FL, TN); BCEE, American Academy of Environmental Engineers and Scientists			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
Member, Florida Water Environment Association, Process Design Committee; Member, Water Environment Federation; Member, Florida Water Environment Association							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Three Oaks WWTP Oxidation Ditch Improvements, Lee County, FL			Professional Services		Construction (If Applicable)	
				2018		2019	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Manager.</b> Brian was the lead wastewater process engineer and project manager for the \$31.5M oxidation ditch improvement study and final design that assessed the overall treatment capacity of this 6.0-mgd facility due to increased biological loadings to the facility over the past several years. The assessment included evaluation of the facility headworks, oxidation ditches, brush aeration system, secondary clarifiers, filters, disinfection system, sludge holding tanks, belt filter presses, reclaimed water pumping and storage, and deep well injection. BioWin™ modeling of the secondary treatment process was done to validate and support design decisions. Final design services included the design of a new 2.0-mgd oxidation ditch process train, three secondary clarifiers, and two new sludge pump stations. This project was delivered through CMAR and successfully constructed.</p>							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Southwest Water Reclamation Facility (WRF) Expansion, JEA, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Lead Process Engineer.</b> Brian served as the lead process engineer for the expansion from 14- to 18-mgd for the JEA South West WRF. The facility expanded with a new 5-stage Bardenpho treatment train and two new 120-foot diameter secondary clarifiers. New tertiary filters are installed to treat a portion of the flow to meet required lower effluent total suspended solids (TSS). A calibrated BioWin model was developed and utilized for the expansion to predict effluent quality. The facility has an effluent total nitrogen (TN) goal of 5 mg/L.</p>							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Osprey WRF Nutrient Removal Upgrades, City of Titusville, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Lead Process Engineer/Project Manager.</b> Brian served as the project manager and lead process engineer for nutrient removal upgrades at this 2.75-mgd facility. The facility was retrofitted from a high-rate activated sludge system to a modified 5-stage Bardenpho using a step-feed configuration to meet nutrient goals of 6 mg/L TN and 1 mg/L total phosphorus (TP).</p>							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
David MacNevin, PhD, PE, LEED AP		Water, Wastewater, Reclaimed Water Treatment and Storage Systems		a. TOTAL	14	b. WITH CURRENT FIRM	<1
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Tampa, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
PhD – Environmental Engineering; MS – Environmental Engineering; BS – Civil Engineering				Professional Engineer (FL, GA, TX)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
LEED Accredited Professional; FSAWWA 2018 Best Paper; AMTA Presidential Award 2016; AWWA MTC 2015 Best Paper Presentation; FSAWWA 2015 Best Paper; AWWA ACE 2008, 1 <sup>st</sup> Place Fresh Ideas Poster Session							
19. RELEVANT PROJECTS							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
Membrane Filtration Pretreatment Improvements, Pinellas County, FL				Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p><b>Project Engineer.</b> The 2.5-mgd industrial water treatment plant (IWTP) located at Pinellas County’s Bridgeway Acres Landfill (BWA) utilizes alum clarification, microfiltration (MF), and reverse osmosis (RO) to treat pond water for use by the Waste-to-Energy (WTE) facility on site. However, performance constraints with the existing solids contact clarifier system have restricted the IWTP MF system from attaining its full design production capacity, resulting in issuance of a Consent Order (CO) requiring the facility attain its full capacity in fewer than 24 months. Pinellas County retained CDM Smith to identify a solution to help the County comply with the CO. Dr. MacNevin reviewed existing performance data from the IWTP over the last six years and identified operational alternatives that could allow the County to resolve this issue while reducing or eliminating the need for a new clarifier. He is now working with the County to verify these results at bench scale before proceeding to a full-scale pilot of the County’s preferred operational improvement.</p>							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
Advanced Water Treatment Demonstration Program, Hillsborough County, FL				Professional Services		Construction (If Applicable)	
				2019		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input type="checkbox"/> PERFORMED WITH CDM SMITH			
<p><b>Lead Project Engineer.</b> Dr. MacNevin was the lead project engineer for the first phase of an Advanced Water Treatment Demonstration Program including conceptual-level unit process selection, design criteria, site-layout, monitoring, and cost estimates for a demonstration of advanced water treatment processes to treat reclaimed water for potable reuse. Dr. MacNevin prepared a detailed literature review, regulatory review, and conceptual design tech memo for the DPR demonstration system. This initial demonstration program will collect the technical information necessary to provide data required for design of a full-scale facility as well as provide sufficient capital and operating cost data to make short-term and long-term planning decisions for future full-scale projects. The conceptual design tech memo has been submitted to the County who intends to proceed to preliminary design of the demonstration system.</p>							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
High Salinity Lift Station Rate Study, Pasco County, FL				Professional Services		Construction (If Applicable)	
				2013		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input type="checkbox"/> PERFORMED WITH CDM SMITH			
<p><b>Project Engineer.</b> Dr. MacNevin was the project engineer for this rate study, to develop a reasonable cost basis for Pasco County Utilities to assess a surcharge to an adjoined, non-County owned lift station, that was contributing inordinately to the salt load at a County waste water treatment facility. He prepared a cost estimate for the required treatment to mitigate salt loads from connected user.</p>							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

<b>12. NAME</b>		<b>13. ROLE IN THIS CONTRACT</b>		<b>14. TOTAL YEARS EXPERIENCE</b>			
Jorge M. Arevalo, PhD, PE		Water, Wastewater, Reclaimed Water Treatment and Storage Systems		a. TOTAL	17	b. WITH CURRENT FIRM	13
<b>15. FIRM NAME AND LOCATION (City and State)</b>							
CDM Smith – Orlando, FL							
<b>16. EDUCATION (degree and specialization)</b>				<b>17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)</b>			
PhD – Environmental Engineering; MS – Environmental Engineering; BS – Chemical Engineering				Professional Engineer (FL)			
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):</b>							
Member, American Water Works Association							
<b>19. RELEVANT PROJECTS</b>							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Water Purification Technology Evaluation Project, JEA, Jacksonville, 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"/> PERFORMED WITH CDM SMITH				
<p><b>Process Engineer.</b> CDM Smith was selected to complete the first phase of this program, the Research and Development Phase, which focuses on the evaluation of various water purification technologies through both literature reviews and field testing. To complete the objectives of this project, CDM Smith just completed field tests of two alternative process trains at both the Southwest Wastewater Treatment Plant and the Buckman Wastewater Treatment Plant. Data collected throughout the field testing will be utilized to compare treatment alternatives and develop capital and operational and maintenance cost estimates to select a single treatment process for subsequent testing at a 1.0 mgd capacity scale. The two treatment processes field tested at the Southwest Wastewater Treatment Plant were: coagulation, flocculation, sedimentation, ozone, biological filtration, and advanced oxidation; and ultrafiltration, reverse osmosis, and advanced oxidation. Dr. Arevalo helped with the selection and procurement of the field equipment, the design of treatment systems and the development of testing protocol.</p>							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Membrane Filtration Pretreatment Improvements, Pinellas 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"/> PERFORMED WITH CDM SMITH				
<p><b>Engineering Support.</b> The 2.5-mgd industrial water treatment plant (IWTP) located at Pinellas County’s Bridgeway Acres Landfill (BWA) utilizes alum clarification, microfiltration (MF), and reverse osmosis (RO) to treat pond water for use by the Waste-to-Energy (WTE) facility on site. However, performance constraints with the existing solids contact clarifier system have restricted the IWTP MF system from attaining its full design production capacity, resulting in issuance of a Consent Order (CO) requiring the facility attain its full capacity in fewer than 24 months. Pinellas County retained CDM Smith to identify a solution to help the County comply with the CO. Dr. Arevalo is providing engineering support for this project.</p>							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Reverse Osmosis Water Treatment Plant No. 1 (RO WTP No. 1) Expansion, City of Clearwater, FL</b>			Professional Services		Construction (If Applicable)	
				2016		2016	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Engineer.</b> Dr. Arevalo served as a project engineer for the design of a 1.5-mgd expansion to the existing 3.0-mgd RO WTP No. 1. The changes included splitting the treatment process to optimize each treatment train, using high surface area membrane elements, operating the membrane system at an elevated flux rate, and using a new arsenic adsorption process. This project included pilot testing to optimize the pre-treatment (dual media pressure filters) and membrane systems. Through the optimization of these systems, the City realized over \$2M in savings. Dr. Arevalo assisted in evaluating the existing facility and identifying the various improvements to enhance the operability and efficiency of the RO WTP No. 1, installation and operation of the pilot systems, collection and analysis of pilot data, preparation of the final pilot report, preparation of the preliminary design report, and preparation of the final drawings and specifications for the expansion.</p>							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
<b>Karen R. Lowe, PE, PMP</b>		Water, Wastewater, Reclaimed Water Treatment and Storage Systems		a. TOTAL	14
				b. WITH CURRENT FIRM	14
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Tampa, FL					
16. EDUCATION (degree and specialization)			17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)		
BS – Civil Engineering			Professional Engineer (FL); PMP; Medical Technologist Supervisor, Florida		
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
Program Chair, Water Environment Federation (WEF), Reuse Symposia; Member, Water Environment Federation (WEF), Reuse, Programs, and Steering Committees; Member, Florida Water Environment Association, West Coast Chapter					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)		(2) Year Completed			
<b>Integrated Water Resources Management Plan (IWRMP), Pinellas County, FL</b>		Professional Services		Construction (If Applicable)	
		2016		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
a. <b>Project Engineer/Assistant Project Coordinator.</b> The County retained CDM Smith, through a subcontract with another firm, to develop an integrated water resources management plan to identify opportunities for greater collaboration for a sustainable water supply, expanded use of reclaimed wastewater, improved protection of ground and surface waters, and better manage stormwater resources. Karen assisted with data gathering, report writing, project team coordination, meeting coordination, and other various project management tasks.					
(1) TITLE AND LOCATION (City and State)		(2) Year Completed			
<b>Off-Stream Reservoir and South Central Booster Pump Stations, Tampa Bay Water, Lithia, FL</b>		Professional Services		Construction (If Applicable)	
		2008		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
b. <b>Project Engineer.</b> Tampa Bay Water serves as the regional water supplier for six surrounding counties and municipalities. Two new pump stations were required to pump water from the regional reservoir to the water treatment plant and to enable bidirectional pumping. Karen assisted with potential site evaluations, permitting through multiple agencies, drawing review, specifications, and stormwater evaluation.					
(1) TITLE AND LOCATION (City and State)		(2) Year Completed			
<b>Tampa Bay Regional Surface WTP Expansion, Tampa, FL</b>		Professional Services		Construction (If Applicable)	
		2010		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
c. <b>Project Engineer.</b> For Tampa Bay Water, Karen assisted with the preliminary design to expand the Tampa Bay Regional Surface WTP from its existing capacity of 66-mgd to approximately 99-mgd. Preliminary design was targeted at developing an engineering estimate of probable construction cost for the expansion. To aid in the cost estimating process, Karen compiled a listing of all anticipated equipment, including mechanical items, yard piping, and valves. Additional contributions to this project included calculations for the liquids and solids flow balance, statistical data review, project management for 30- and 60-percent review comments, and basis of design report content. Karen has developed a hydraulic model for the expanded in-plant water use and evaluated pumping requirements for a new booster pump station associated with the in-plant water distribution system.					
(1) TITLE AND LOCATION (City and State)		(2) Year Completed			
<b>St Johns River Water Management District (SJRWMD), Black Creek Water Resource Development Project Raw Water Transmission Main, Clay 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"/> PERFORMED WITH CDM SMITH			
d. <b>Project Engineer.</b> This SJRWMD project seeks to transfer water from Black Creek to a recharge area. The project will include a new intake pump station and approximately 19 miles of raw water transmission main. Karen is the design engineer for the raw water transmission main which includes both open cut and horizontal directional drill constructions methods. She is also assisting the project manager to coordinate the design team and ensure project milestones are met.					

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
Blake E. Harvey		Water, Wastewater, Reclaimed Water Treatment and Storage Systems		a. TOTAL	3	b. WITH CURRENT FIRM	2
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Fort Myers, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
BS – Environmental Engineering				N/A			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
N/A							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	S. Biscayne Dr & Pan American Blvd Bridge Pipeline Replacements, City of North Port, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Project Engineer. Blake assisted in the design of an 8- and 12-inch high-density polyethylene (HDPE) water main pipeline via subaqueous horizontal directional drill (HDD). Work included coordination with geotechnical engineers and drafting of a geometrically accurate CAD design of the two pipeline replacements. Blake also made CAD revisions per reviewers' comments and assisted with updating project specifications							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Bobcat Village Force Main Replacement, City of North Port, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Project Engineer. The proposed project includes design, permitting, and construction engineering services to replace 3,000 LF of 8-inch sanitary sewer force main on Bobcat Trail Golf Course and South Toledo Blade Boulevard for the City of North Port. Blake's responsibilities includes reviewing and updating project specifications, performing quantity takeoffs of project materials, and making CAD revisions as per reviewers comments.							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Tamiami Well 38 Design, Collier County, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Project Engineer. CDM Smith is responsible for the design of a new Tamiami Well in Collier County, FL. Blake assisted with the hydraulic evaluation using Innovyze InfoWater, civil and process mechanical design including drawings and technical specifications, and coordination with the other disciplines involved in the design. The hydraulic evaluation of the raw water supply transmission system was performed for sizing and selection of a submersible vertical turbine pump. Blake reviewed contractor submittals and served as a submittal coordinator between the Contractor and project engineers. He coordinated requests for information (RFIs) and overall document management for the project including keeping updated submittal/RFI logs. Also, he participated in County meetings and prepared meeting minutes. Blake also assisted in closeout services including preparation of FDEP paperwork and a construction punch list.							
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Computerized Maintenance Management System (CMMS) Advanced Wastewater Treatment Facilities (AWWTF), City of Fort Myers, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Project Engineer. Blake worked to implement a CMMS using the LlumIn database system. The work included extensive asset organization, asset data collection, job plan creations, extensive QA/QC, etc.							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
Sirwan Alimoradi, PhD, PE		Water, Wastewater, Reclaimed Water Treatment and Storage Systems		a. TOTAL	5	b. WITH CURRENT FIRM	<1
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Orlando, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
PhD – Environmental Engineering; MS – Environmental Engineering; BS – Chemical Engineering				Professional Engineer (MI)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
OSHA 40-Hour HAZWOPER; C.C.: Competent Communicator awarded, Toastmasters International							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Osprey WRF Nutrient Removal Upgrades, City of Titusville, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Process Engineer.</b> Dr. Alimoradi is serving as an Environmental engineer for nutrient removal upgrades at this 2.75 mgd facility. The facility is being retrofitted from a high-rate activated sludge system to a modified 5-stage Bardenpho using a step-feed configuration to meet nutrient goals of 6 mg/L TN and 1 mg/L total phosphorus (TP). Dr. Alimoradi’s tasks included assisting in a head loss of biological treatment aeration and sizing and specification of the blowers. Dr. Alimoradi calculated the surge of the blowers and designed the max efficiency of blowers based on the minimum flow before surge. Dr. Alimoradi is also responsible for designing of a wastewater pump station for biological tanks’ drainage.</p>							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Fleming Island Wastewater Treatment Facility (WWTF) Expansion, Clay County Utility Authority, Clay County, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Process Engineer.</b> Dr. Alimoradi is assisting as a process engineer for the study and preliminary design of this project. The project commenced with an oxidation ditch addition study that increases the overall treatment capacity of this 4.0 mgd facility to 5.0 mgd due to increased biological loadings to the facility over the past several years. Dr. Alimoradi’s tasks included assisting in a peer review of the proposed oxidation ditch tank sizing methodology and the biological modeling analyses of two existing oxidation ditches and the proposed oxidation ditch tank. The assessment included evaluation of oxidation ditches, brush aeration system, secondary clarifiers, and filters. Dr. Alimoradi is also responsible for performing calculation of daily average, maximum month annual average and percentile of historical flow and load into the plant. Dr. Alimoradi is also responsible for composing the associated technical memorandum that presented the peer review findings, alternatives, and flow and load results. BioWin™ modeling of the secondary treatment process was done to validate and support design decisions. Preliminary design services include the design of a new 2.0 mgd oxidation ditch process train, an anoxic zone and their mixers, and a new secondary clarifiers.</p>							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Wastewater Treatment, Smith and Loveless, Lenexa, KS			Professional Services		Construction (If Applicable)	
				2019		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Process Engineer.</b> Dr. Alimoradi consulted and recommended treatment technologies for municipal and industrial wastewater ranging from low to high strength to meet client’s effluent quality based on regulations and other requirements such as available space. He developed SUMO models and design calculations to check the ability of suspended and attached growth processes treating wastewater with varying climatic conditions and flows. Dr. Alimoradi developed biological nutrient removal (BNR) and enhanced biological phosphorus removal (EBPR) based treatment systems to address total nitrogen and total phosphorus limits. He introduced new technologies by planning to add novel wastewater treatment processes to existing modules. He provided field technical support to resolve issues during treatment operations.</p>							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
Gregory D. Wetterau, PE*, BCEE		Water, Wastewater, Reclaimed Water Treatment and Storage Systems		a. TOTAL	26	b. WITH CURRENT FIRM	22
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Rancho Cucamonga, CA							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
MS – Environmental Engineering; BS – Civil Engineering				Professional Engineer (WA, OR, CA)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
American Membrane Technology Association; AWWA Water Desalting Committee; WaterReuse Research Foundation							
19. RELEVANT PROJECTS							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Water Purification Technology Evaluation Project, JEA, Jacksonville, 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"/> PERFORMED WITH CDM SMITH			
<p>a. <b>Process Lead.</b> Mr. Wetterau served as the lead process engineer during pilot testing of advanced treatment technologies for potable reuse. The project included pilot testing of two alternative process trains at both the Southwest Wastewater Treatment Plant and the Buckman Wastewater Treatment Plant. Data collected throughout the field testing will be utilized to compare treatment alternatives and develop capital and operational and maintenance cost estimates to select a single treatment process for subsequent testing at a 1.0 mgd capacity scale. The two treatment processes include: coagulation, flocculation, sedimentation, ozone, biological filtration, and advanced oxidation; and ultrafiltration, reverse osmosis, and advanced oxidation. Mr. Wetterau was responsible for selection of the overall treatment processes, development of design criteria, review and approval of the testing and monitoring protocol, weekly review of operating data, and remote troubleshooting of plant operations.</p>							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Membrane Softening Facility Preliminary Design, Boca Raton, FL</b>				Professional Services		Construction (If Applicable)	
				2012		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p>b. <b>Project Engineer.</b> Mr. Wetterau was involved in conceptual and preliminary design phases of the City of Boca Raton’s 40-mgd Glades Road membrane softening facility. His responsibilities included evaluation of pretreatment and post-treatment process alternatives and the design of chemical storage and feed facilities. He also served as lead engineer during design and permitting of a 4800-pound-per-day (lb/d) sodium hypochlorite generation facility for the Glades road plant. Additionally, Mr. Wetterau led a risk management plan compliance audit for the city’s existing chlorination facility at the Glades Road water plant.</p>							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Water Treatment Facilities Improvements and Expansion, Palm Beach County, FL</b>				Professional Services		Construction (If Applicable)	
				2005		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p>c. <b>Project Manager/Engineer.</b> Mr. Wetterau’s involvement on Palm Beach County Water Utilities Department projects has included uprate testing and facilities improvement planning for a 16-mgd conventional treatment plant at Water Treatment Plant (WTP) No. 8, design and piloting services for a 10.8-mgd facilities expansion at the WTP #3 membrane softening plant, and piloting services for a new nanofiltration facility at WTP#9. Processes and technologies involved in these designs and analyses have included onsite hypochlorite generation, ozonation, degasification, acidless nanofiltration operation, and raw water blending analysis and design.</p>							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
Gregory T. Isaacs, PE		Water, Wastewater, Reclaimed Water Treatment and Storage Systems		a. TOTAL	22	b. WITH CURRENT FIRM	1
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Sarasota, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
BS – Civil Engineering				Professional Engineer (FL, IN, KY, OH, TN, VA)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
N/A							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	South and Central AWWTF Screen and Grit Improvements, Fort Myers, FL			Professional Services		Construction (If Applicable)	
				2016		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Manager.</b> Mr. Isaacs served as project manager for designing \$6M in grit and screenings removal equipment to replace the existing equipment that was beyond its useful life at the 12-mgd South and 11-mgd Central AWWTFs. The new grit removal and screenings removal equipment included new grit pumping equipment, rehabilitation of grit vortex chambers, classifiers, perforated plate mechanical screens with an integral washer and compactor, slide gates and stop plates for the channels within the Headworks Structure, and new ventilation for this closed in headworks area. CDM Smith worked closely with the City and contractor during construction to develop a bypass plan to address peak hour flows of up to 30 mgd at each facility.</p>							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	South and Central AWWTF Electrical Upgrades, Fort Myers, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Manager.</b> Serving in this role, our team designed new 4000 amp, 480V main switchgear, new 2500 kW, EPA tier 4 standby diesel generators, and “intelligent” MCCs to upgrade the power distribution systems at both plants. The screen and grit portion of the project includes the replacement of the mechanical screens, grit equipment, ventilation equipment and accessories, as well as the lining of the channels. As the project manager, Mr. Isaacs was responsible for leading staff through the construction services during the upgrades to the electrical system and the headworks to both the Central and South AWWTF for the City of Fort Myers. He was involved in the daily interactions with the engineering team, contractor and the owner. Construction engineering services included shop drawing review, RFI’s, change orders, pay request, and coordination.</p>							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	WWTP Capacity Evaluations and Alternatives Analysis, Punta Gorda, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Manager.</b> This project included an existing treatment capacity evaluation of each unit process at the 4-mgd WWTP, including the 12-mgd headworks, and involved analysis of current and projected wastewater flows and loads to the plant, review of regulatory requirements, and non-process evaluation of the WWTP, which would serve as the basis for a subsequent Master Planning Study of the WWTP currently being completed by CDM Smith. As project manager, Mr. Isaacs led a multidisciplinary team to evaluate alternatives for improvements to the WWTP. He conducted workshops with the client, site visits, modeling and analysis to develop several technical memorandums, and a final report. The results of this project will lead to the next phase which is a design project to upgrade the WWTP.</p>							
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Advanced Wastewater Facilities Biosolids Upgrades, Fort Myers, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Manager.</b> As the project manager Mr. Isaacs is responsible for an electrical team through the evaluation and design of the electrical needs for this project. This project consist of the replacement of the existing belt filter presses at the Central AWWTF and the South AWWTF. CDM Smith is a sub consultant providing electrical design and technical support on this project for the City of Fort Myers.</p>							

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
<b>Travis Meyer, PE</b>		Water, Wastewater, Reclaimed Water Treatment and Storage Systems		a. TOTAL	27
				b. WITH CURRENT FIRM	2
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Helena, MT					
16. EDUCATION (degree and specialization)			17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)		
MS – Environmental Engineering; BS – Civil Engineering			Professional Engineer (MT, CO)		
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
American Water Works Associations; Water Environment Federation					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Effluent Management Study, Helena, MT</b>			Professional Services	Construction (If Applicable)
				<b>2018</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>Project Manager.</b> Mr. Meyer served as project manager to evaluate alternatives to meet upcoming nutrient discharge limits. Alternatives included groundwater discharge, treatment upgrades, direct crop irrigation, discharge into irrigation canal, relocation of discharge to Missouri River, and deep well injection. A comprehensive review of the Lake Helena TMDL was done to assess the need for additional data collection and determine if the nutrient model needed to be recalibrated. The project also included bench testing to enhance copper and zinc removal using coagulants and polymer.</p>					
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Wastewater Treatment Plant Upgrades, Great Falls, MT</b>			Professional Services	Construction (If Applicable)
				<b>2015</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>Project Manager.</b> Mr. Meyer served as project manager to provide facility planning, preliminary design, and final design of a 16-mgd wastewater treatment plant upgrade to convert an existing BOD removal plant to a biological nutrient removal facility. Upgrades included conversion of existing aeration tanks to nitrogen removal bioreactors, construction of a new bioreactor and turbo blower aeration facility, addition of a new UV disinfection facility, upgrades to the influent lift station, and addition of a secondary clarifier. The project also included conducting a comprehensive mixing zone study to support a major modification to the discharge permit.</p>					
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Wastewater Facility Plan, Process Design &amp; Startup, Butte, MT</b>			Professional Services	Construction (If Applicable)
				<b>2017</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>Senior Project Engineer.</b> Mr. Meyer served as senior project engineer and provided facility planning and development of final process design criteria for an 8-mgd membrane bioreactor (MBR) wastewater plant. Evaluation of alternatives to convert a BOD removal plant to a state-of-the art biological nutrient removal (BNR) facility capable of meeting limits of technology for nitrogen and phosphorous removal. Selected alternative was a membrane bioreactor system utilizing four-stage nitrogen removal and enhanced biological phosphorous removal combined with chemical precipitation to achieve the required effluent. He also provided on-site startup assistance and troubleshooting during the critical first six months of operation to develop a biomass capable of high level nutrient removal. A comprehensive process optimization study was conducted to maximize performance.</p>					
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Wastewater Treatment Plant Facility Plan and Design, Conrad, MT</b>			Professional Services	Construction (If Applicable)
				<b>2010</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>Project Manager.</b> Mr. Meyer served as project manager to provide facility planning, preliminary design, and final design of a 0.5-mgd wastewater treatment plant upgrade to an existing aerated/facultative lagoon system. Ultimately, an earthen basin activated sludge was selected for final design.</p>					

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
Charles B. Thaggard, PE		Water, Wastewater, Reclaimed Water Treatment and Storage Systems; Stormwater/Civil Site		a. TOTAL	8	b. WITH CURRENT FIRM	5
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Fort Myers, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
BS – Environmental Engineering				Professional Engineer (FL)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
N/A							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Wastewater Engineer-of-Record, City of Fort Myers, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Engineer.</b> The City of Fort Myers owns and operates the South and Central AWWTF which were constructed in 1984 – 1985 and have undergone various improvement projects over the past 30 years. Under an ongoing Professional Service Agreement—Continuing Contract, CDM Smith has performed numerous specific tasks at the South and Central AWWTFs. Professional services included planning, engineering, surveying, design, construction engineering and inspection, assistance during start-up, peer review, permitting, value engineering, quality assurance oversight, preparation of annual reports, and interaction with Public Utilities Division staff. Under this contract, Charles is serving as project engineer, responsible for meeting with City staff, annual report generation, and engineering and design assistance.</p>							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Wastewater Basin Program (Basin 101), Collier County Public Utilities Division’s (CCUPD), Collier County, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Engineer.</b> As part of CCUPD’s preventative maintenance program, CDM Smith was hired to perform an evaluation of Basin 101. Charles was responsible for pump station rehabilitation design, drawings, verification of force main sizing, redesign of gravity sewer and force main, construction engineering and inspection. Charles aided in design of a 24-inch wastewater force main through the streets of the Naples Park service area for approximately 5,000-feet, which includes open cut and a jack and bore road crossing. The project also includes the design of 1,200-feet of 8-inch gravity sewer and 2,400-linear feet of 6-inch and 8-inch watermain replacement. The project has been phased into two parts to facilitate the funding and schedule; the first phase has begun construction and the second phase is anticipated to start construction soon. Charles designed 6,300 LF of interceptor gravity sewer that ranges in diameter from 8-onches to 21-inches in diameter that included the abandonment of three lift stations.</p>							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Southwest RO WTP Injection Well and Continuing Services, City of Cape Coral, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Engineer.</b> CDM Smith has provided professional engineering services to the City of Cape Coral since 2010 for the Southwest RO WTP and Continuing Services for the Utilities Department. We have successfully completed more than 50 projects on schedule and under budget, typically providing added value to the City beyond the base scope of work. Under this contract, Charles has served as project engineer, responsible for quality assurance of drawings and construction related services.</p>							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
Isaac D. Holowell, PE		Water, Wastewater, and Reclaimed Water Conveyance Systems; Water, Wastewater, and Reclaimed Water Planning		a. TOTAL	7	b. WITH CURRENT FIRM	6
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Fort Myers, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
BS – Environmental Engineering				Professional Engineer (FL)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
Florida Water Environment Association Southwest Chapter Membership Chair; Florida Gulf Coast University Department of Civil and Environmental Engineering Advisory Committee Member							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Three Oaks Wastewater Treatment Plant Oxidation Ditch Improvements, Lee County, FL</b>			Professional Services		Construction (If Applicable)	
				2018		2019	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<b>Project Engineer.</b> The project scope included a new administration building, new oxidation ditch, three new secondary clarifiers and associated RAS/WAS pumping stations, and the addition of a belt filter press for dewatering of solids. Isaac assisted with the permit renewal.							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Collier County Public Utilities Renewal (PUR) Program – Wastewater Basin 101, Collier 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"/> PERFORMED WITH CDM SMITH				
<b>Project Engineer.</b> CDM Smith was tasked with designing a new sanitary interceptor sewer to combine three neighborhood lift station service areas into one master pumping station service area. Isaac was the lead process mechanical engineer for the design of the new wastewater master pumping station in Collier County, FL. He was responsible for the hydraulic evaluation using Bentley WaterGEMS, civil and process mechanical design including drawings and technical specifications. The hydraulic evaluation of the proposed pump station was performed for sizing and selection of three submersible solids handling pumps in a parallel circuit, and a diesel driven standby pump. He was also involved with the design and coordination of approximately 4,000 LF of gravity sewer pipe, 29 polymer concrete manholes, and 2,600 LF of 24-inch force main.							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>UEP North 2 Facilities Design and Construction Services, City of Cape Coral, FL</b>			Professional Services		Construction (If Applicable)	
				2017		Ongoing	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<b>Project Engineer.</b> The North 2 UEP area consists of adding potable water, wastewater, and irrigation services to an approximately 6.2 square miles residential area. Isaac performed hydraulic analyses using Innovyze InfoWater for the extension of potable water transmission and distribution mains throughout the North 2 UEP area. The primary purpose of the hydraulic analyses of the potable water system was sizing the approximately 90 miles of proposed water mains to meet various flow conditions including peak hourly and fire flow requirements. Isaac was also responsible for performing hydraulic analyses using Innovyze InfoWater for the design of 13 new sanitary pump stations and approximately 25 miles of force mains to transmit the wastewater collected in the project area to the City’s existing water reclamation facilities. Isaac was a key member in the design of 13 sanitary duplex lift stations, two sanitary master pump stations, and two canal pump stations for transmitting surface water for irrigation purposes.							
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Wastewater Hydraulic Model Development, City of North Port, 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"/> PERFORMED WITH CDM SMITH				
<b>Project Engineer.</b> Mr. Holowell was responsible for developing a city-wide hydraulic model of the City of North Port’s wastewater pumping stations and force main network using Bentley WaterGEMS. The evaluation included a force main capacity analysis of the City’s US 41 Residential and Commercial Corridor.							

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
Marc C. Stonehouse, PE		Water, Wastewater, and Reclaimed Water Conveyance Systems		a. TOTAL	22
				b. WITH CURRENT FIRM	22
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Fort Myers, FL					
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)	
MSE – Environmental Engineering; BS – Engineering				Professional Engineer (FL, MI); PMP	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
Member, Florida Water Environment Association; Member, Water Environment Federation					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>UEP North 2 Facilities Design and Construction Services, City of 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"/> PERFORMED WITH CDM SMITH		
<p><b>Project Manager.</b> The North 2 Utility Extension Project area consists of adding potable water, wastewater, and irrigation services to an approximately 6.2 square miles residential area. Marc oversaw hydraulic analyses using Innovyze InfoWater for the extension of potable water transmission and distribution mains throughout the North 2 Utility Extension Project area. The primary purpose of the hydraulic analyses of the potable water system was sizing the approximately 90 miles of proposed water mains to meet various flow conditions including peak hourly and fire flow requirements. CDM Smith was also responsible for performing hydraulic analyses using Innovyze InfoWater for the design of 13 new sanitary pump stations and approximately 25 miles of force mains to transmit the wastewater collected in the project area to the City’s existing water reclamation facilities. Marc oversaw the design of 13 sanitary duplex lift stations, two sanitary master pump stations, and two canal pump stations for transmitting surface water for irrigation purposes.</p>					
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Collier County PUR Program – Wastewater Basin 101, Collier 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"/> PERFORMED WITH CDM SMITH		
<p><b>Project Manager.</b> The Wastewater Basin Program consists of evaluating and implementing collection system improvements for an approximately 1.5-square-mile residential area. Marc led the hydraulic analyses using Bentley WaterGEMS for the force main network throughout the Basin #1 area. The primary purpose of the hydraulic analyses of the force main system was sizing the replacements pumps of the lift stations for peak hour flow based on flow monitoring data. Marc also participated in the design of four lift station upgrades, a sanitary master pump station, 18,290 LF of force mains replacements and extension, and 23,400 LF of gravity sewers. Marc served as the lead practitioner for the study, design, permitting, and construction of the various projects within the program. Marc is currently serving as in this same role for the construction phase of the improvement projects.</p>					
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Wastewater Hydraulic Model Development, City of North Port, 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"/> PERFORMED WITH CDM SMITH		
<p><b>Task Manager.</b> Marc was a task manager for developing a city-wide hydraulic model of the City of North Port’s wastewater pumping stations and force main network using Bentley WaterGEMS. The evaluation included a force main capacity analysis of the City’s US 41 Residential and Commercial Corridor.</p>					
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Stormwater Master Plan, City of Fort Myers Beach, FL</b>			Professional Services	Construction (If Applicable)
				2009	N/A
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<p><b>Project Manager/Environmental Engineer.</b> Marc managed the project team that assisted the City of Fort Myers Beach with ongoing efforts to develop a comprehensive plan designed to develop processes, systems, organizations, costs, and cost-funding mechanisms to facilitate reliable, compliant stormwater management practices for current and future use.</p>					

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
Clay M. Tappan, PE, BCEE		Water, Wastewater, and Reclaimed Water Conveyance Systems		a. TOTAL	36	b. WITH CURRENT FIRM	33
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Sarasota, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
MS – Engineering Management; BS – Environmental Engineering				Professional Engineer (FL)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
Board Certified Environmental Engineer (BCEE), American Academy of Environmental Engineers and Scientists							
19. RELEVANT PROJECTS							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Loop System Phase 3B Interconnect Third Party Review, Southwest Florida Water Management District (SWFWMD), 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"/> PERFORMED WITH CDM SMITH			
a.		<p><b>Technical Reviewer.</b> The Peace River Manasota Regional Water Supply Authority (Authority) and the SWFWMD entered into a Cooperative Funding Agreement for the preliminary design of the Phase 3B Interconnect Project, which is an expansion of the Authority’s Regional Integrated Loop System to deliver treated water supply to its members. Under the Cooperative Funding Agreement with the Authority, the SWFWMD retained CDM Smith to conduct a third-party review to evaluate the methodology, assure feasibility, and independently estimate the probable costs of the project. Our team provided a third-party review of the Basis of Design Report/hydraulic model that was prepared by others for a new pipeline and pump station for the Peace River Manasota Regional Water Supply Authority. Mr. Tappan provided technical review for this project.</p>					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Reverse Osmosis Water Treatment Plant No. 1 Expansion, City of Clearwater, FL</b>				Professional Services		Construction (If Applicable)	
				2016		2016	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
b.		<p><b>Lead Practitioner.</b> CDM Smith provided design services related to the expansion of its Reverse Osmosis (RO) Water Treatment Plant (WTP) No.1. The goals of the expansion were to increase the production capacity of the WTP by 1.5 mgd (1.0 mgd of RO permeate and 0.5 mgd of finished blend water) and the storage capacity by 1.0 mgd. The total average production capacity of the WTP will be 4.5 mgd with 6.0 mgd of finished water storage. Prior to the development of the RO WTP design expansion while pilot studies were being conducted, CDM Smith designed two new process water pipelines to transfer concentrate to the future RO WTP No. 2 site and spent backwash water pipeline for future use. Mr. Tappan led the design of these pipelines.</p>					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Lift Station 85 Albert Whitted Master 30-inch Force Main, Part C and Lift Station 62 Flow Diversion, City of St. Petersburg, FL</b>				Professional Services		Construction (If Applicable)	
				2015		2015	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
c.		<p><b>Lead Practitioner.</b> For the City of St. Petersburg, CDM Smith performed design services of a new 30-inch force main pipeline and 24-inch gravity sewer pipeline. The project was divided into two parts: Part A – Lift Station 85 Albert Whitted Master 30-inch Force Main and Part B – Lift Station 62 Flow Diversion. Part A consisted of designing a segment of the 30-inch force main pipeline for the project to divert flow from the Albert Whitted Water Reclamation Facility (AWWRF) to the Southwest Water Reclamation Facility (SWWRF). CDM Smith was responsible for the force main route from the end of the Force Main – Part D along MLK, just north of 26th A/S, south along MLK and ending just south of Country Club Way South (start of Force Main – Part B). Mr. Tappan was the lead practitioner for this project.</p>					

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
Dewayne C. Wallace		Water, Wastewater, and Reclaimed Water Conveyance Systems		a. TOTAL	5	b. WITH CURRENT FIRM	5
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Fort Myers, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
BS – Environmental Engineering				N/A			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
Member: American Public Works Association (APWA); Member: Florida Water Environment Federation (FWEA); US Navy B.O.O.S.T. Program Graduate, 1987 – 1988							
19. RELEVANT PROJECTS							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Utilities Extension Project (UEP) North 2 Facilities Design and Construction Services, City of Cape Coral, FL</b>				Professional Services		Construction (If Applicable)	
				<b>2017</b>		<b>Ongoing</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p>a. <b>Project Engineer.</b> The North 2 Utility Extension Project area consists of adding potable water, wastewater, and irrigation services to an approximately 6.2 square miles residential area. Mr. Wallace is responsible for reviewing the 12 Contracts’ certified payrolls for wage rate compliance to the Davis-Bacon Act as this project is receiving State Revolving Fund (SRF) funding. As part of his duties, he performs site visits of the 12 Contracts’ construction sites to interview contracted employees. Mr. Wallace assists the project manager with all aspects of document management, including the training of CDM Smith employees on the use of the Aconex software. Along with the project manager and the construction manager, he deals directly with the prime consulting firm as well as the Owner. He is also responsible for training as needed any additional reviewers of certified payrolls and interviewers as well as working with the project manager on all other aspects of the SRF compliance protocols. Mr. Wallace also assisted the project manager with the compilation of the invoice charges made to the subtasks of the project. He verified whether the weekly labor charge was appropriate to the subtask per the laborer’s qualifications. He worked with another project engineer to select the appropriate pump for the lift stations and master lift stations by analyzing the pump curve data and performing calculations per the hydraulic model. He worked on the analysis for culvert design for the lift stations and master lift stations. This task involved determining which pump stations needed a culvert based on the analysis of the elevation of the edge of pavement, center line swale, and the wet well top of slab.</p>							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Three Oaks Wastewater Treatment Plant (WWTP) Oxidation Ditch Improvements, Lee County, FL</b>				Professional Services		Construction (If Applicable)	
				<b>2018</b>		<b>2019</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p>b. <b>Project Engineer.</b> Mr. Wallace dealt directly with the Construction Management-at-Risk (CMAR) firm in his responsibility of reviewing certified payrolls for wage rate compliance to the Davis-Bacon Act as this project is receiving SRF funding. As part of his duties, he performed monthly site visits at the WWTP to interview contracted employees.</p>							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Three Oaks WWTP Permit Renewal Application, Lee County, FL</b>				Professional Services		Construction (If Applicable)	
				<b>2018</b>		<b>2018</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p>c. <b>Project Engineer.</b> Mr. Wallace was responsible for preparing the permit application for the renewal of the WWTP operating permit. The package included the development of the Florida Department of Environmental Protection (FDEP) Forms 1 and 2A, the Capacity Analysis Report, and the Operations and Maintenance (O&amp;M) Performance Report as well as the Operational Inspection of the plant.</p>							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
Thomas W. Nichols		Geotechnical		a. TOTAL	40
				b. WITH CURRENT FIRM	15
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Orlando, FL					
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)	
ME – Civil Engineering; BS – Civil Engineering				N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
N/A					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Design-Build of the Arbennie Pritchett 10-mgd WRF, Okaloosa County, FL</b>			Professional Services	Construction (If Applicable)
				<b>2007</b>	<b>2017</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<b>Geotechnical Engineer.</b> CDM Smith was selected to DB, start up, performance test, and obtain permits for the new Arbennie Pritchett WRF, which was designed to initially treat 10-mgd with flexibility for future expansion. Thomas served as the geotechnical engineer for this \$48M DB project. His responsibilities included civil and geotechnical design, as well as quality technical review.					
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Anastasia Island WWTF, St. Johns County, FL</b>			Professional Services	Construction (If Applicable)
				<b>2011</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<b>Geotechnical Engineer.</b> CDM Smith was retained by St. Johns County to perform engineering services related to the preliminary and final design, regulatory permitting, and general services during bidding and construction for the \$17.9M expansion and upgrade of the SJUD Anastasia Island WWTF to a 5-mgd average day treatment capacity. Thomas provided geotechnical engineering expertise during the project implementation.					
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Ormond Beach WRF Expansion, Ormond Beach, FL</b>			Professional Services	Construction (If Applicable)
				<b>2013</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<b>Technical Reviewer.</b> Thomas provided senior level geotechnical review and evaluation of the new digester tank and renovations to the chlorine contact tanks as part of the 8-mgd WRF expansion. For the new digester, the geotechnical issues included removal of unsuitable fill materials, dewatering in high permeability soils, excavation support by sheet piles and protection of adjacent structures, buoyancy and uplift resistance from piles, preconstruction surveys and settlement monitoring of adjacent structures during construction. For the renovations to the chlorine contact tanks, the geotechnical issues included soil permeation grouting, pin piles, and differential settlement.					
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>WTP No. 8 Expansion, Palm Beach County, FL</b>			Professional Services	Construction (If Applicable)
				<b>2005</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<b>Geotechnical Engineer.</b> Thomas was the geotechnical engineer who provided the geotechnical engineering recommendations for the \$18.6M design and construction of the proposed expansion of the existing WTP No. 8.					
e.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Proposed WTP, Clewiston, FL</b>			Professional Services	Construction (If Applicable)
				<b>2007</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<b>Geotechnical Engineer.</b> Thomas was the geotechnical engineer who provided the geotechnical engineering recommendations for the design and construction of the \$20.1M WTP.					
f.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Lake Region Water Treatment Plant, Palm Beach County, FL</b>			Professional Services	Construction (If Applicable)
				<b>2004</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<b>Geotechnical Engineer.</b> Thomas was the geotechnical engineer who provided the geotechnical engineering recommendations for the design and construction of the new \$21.5M Lake Region WTP.					

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
<b>Stephen L. Whiteside, PE</b>		Geotechnical		a. TOTAL	44
				b. WITH CURRENT FIRM	20
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Raleigh, NC					
16. EDUCATION (degree and specialization)			17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)		
Engineer Degree – Geotechnical Engineering; MS – Geotechnical Engineering; BS – Civil Engineering			Professional Engineer (MA, NC, SC, VA, GA, FL, AL, TN, KY, LA, AR)		
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
Member, Association of State Dam Safety Officials; Member, U. S. Society on Dams; Member, USSD Levee Committee and Dam Decommissioning Committee; Life Member, American Society of Civil Engineers; Member, American Water Works Association					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Bay County Resource Recovery Facility (RRF), Bay County, FL</b>			Professional Services	Construction (If Applicable)
				<b>2005</b>	<b>2007</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<b>Geotechnical Engineer.</b> Stephen was the project geotechnical engineer for the geotechnical investigation and design of foundations for the proposed air pollution control structures at the Bay County RRF.					
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Raw Water Intake Modifications, Neuse Regional Water and Sewer Authority, La Grange, NC</b>			Professional Services	Construction (If Applicable)
				<b>Ongoing</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<b>Geotechnical Engineer.</b> Stephen served as the technical consultant for the design and construction of a 400-foot-long, 36-inch diameter pipeline to depths up to 30 feet below grade and an intake structure in the Neuse River. The project included a subsurface investigation program with land and barge drilling. Stephen reviewed driven pile calculations for the deep foundation design (steel pipe piles) for the intake structure and bollards as well as the slope stability analyses for the riverbank re-stabilization. He reviewed the geotechnical design report, geotechnical-related specifications and contract drawings.					
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>East Lake Park Water Quality Improvement, City of Chattanooga, TN</b>			Professional Services	Construction (If Applicable)
				<b>2017</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<b>Geotechnical Engineer.</b> Stephen served as the geotechnical technical consultant for the project that included the construction of a wooden boardwalk as well as two fishing piers in the pond at East Lake Park in Chattanooga, TN. He reviewed the geotechnical recommendations memorandum, geotechnical specifications, and geotechnical-related contract drawings and provided consultation during construction.					
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>New Steam Tunnel, Chapel Hill, NC</b>			Professional Services	Construction (If Applicable)
				<b>2010</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<b>Geotechnical Engineer.</b> Stephen was the geotechnical engineer for the design of a new steam tunnel to replace an existing tunnel at the University of NC in Chapel Hill. The tunnel is 14 feet wide and tall and houses several steam and condensate lines for heating the university buildings. The project included a geotechnical investigation, development of conceptual alternatives, and design and construction of the selected alternative.					
e.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Neuse River WWTP, Raleigh, NC</b>			Professional Services	Construction (If Applicable)
				<b>2004</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<b>Geotechnical Engineer.</b> Stephen was the geotechnical engineer for the design of a new headworks and solids handling facility at the Neuse River WWTP in Raleigh, North Carolina.					

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
Lee P. Wiseman, PE, BCEE		Water, Wastewater, and Reclaimed Water Planning		a. TOTAL	35
				b. WITH CURRENT FIRM	30
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Orlando, FL					
16. EDUCATION (degree and specialization)			17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)		
MS – Environmental Engineering; BS – Microbiology			Professional Engineer (FL); BCEE, American Academy of Environmental Engineers and Scientists		
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
Member, American Academy of Environmental Engineers and Scientists; Member, American Society of Civil Engineers; Member, National Groundwater Association; Member, Water Environment Federation; Member, American Water Works Association					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Myakkahatchee Creek WTP Wellfield Comprehensive Hydrogeologic Evaluation, City of North Port, 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"/> PERFORMED WITH CDM SMITH		
<p><b>Senior Technical Advisor.</b> Raw water quality in the City’s Myakkahatchee Creek WTP surficial and intermediate aquifer wellfields has been progressively increasing in salinity since the City has been using this wellfield. CDM Smith was contracted to develop, calibrate and use a groundwater flow model to help identify causes of the salinity increases in groundwater. The model was ultimately used to help identify sources of salinity that causing groundwater salinity to increase. Lee was the senior technical advisor that guided the project team through the modeling.</p>					
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Lake Okeechobee Fast-Track (LOFT) Project, SFWMD, Okeechobee and Martin Counties, FL</b>			Professional Services	Construction (If Applicable)
				2009	N/A
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<p><b>Senior Project Engineer.</b> Lee was the task manager for the groundwater modeling in support of the proposed Taylor Creek reservoir and Lakeside Ranch stormwater treatment area (STA). A regional groundwater model was developed and calibrated for a 1,400-square-mile area, including the project sites. From the calibrated models, two-local models were developed for the project sites. The model was used to evaluate possible seepage controls for the Taylor Creek reservoir and the Lakeside Ranch STA. The modeling results were used in support of the geotechnical and hydraulic design of the proposed facilities.</p>					
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Drainage Well Rehabilitation/Replacement Program, Orange County, FL</b>			Professional Services	Construction (If Applicable)
				2011	N/A
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<p><b>Senior Technical Reviewer.</b> Orange County has over 200 drainage wells installed for flood control. Most of these wells are 30 to 50 years old and some of the wells are not performing as designed. Two of these drainage wells, White Heron and Marble Avenue, are located in urbanized areas. CDM Smith performed an assessment of the condition of the existing drainage wells, sited replacement drainage well locations, performed modeling of the replacement well hydraulic capacity and prepared design drawings. Lee provided technical review of the well assessment studies and well replacement for the White Heron and Marble Avenue drainage wells.</p>					
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Golden Gate Lower Tamiami Aquifer (LTA) Wellfield CUP Groundwater Modeling, Collier 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"/> PERFORMED WITH CDM SMITH		
<p><b>Senior Technical Advisor.</b> CDM Smith assisted Collier County with modifying their 20-year CUP and performing groundwater flow modeling to add 12 new LTA reliability wells to the wellfield. An existing MODFLOW groundwater model developed by CDM previously was used to perform the modeling simulations of proposed groundwater withdrawals. The groundwater model and CUP modification were approved by South Florida Water Management District.</p>					

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
Carl S. Frizzell, PhD, PE		Water, Wastewater, and Reclaimed Water Planning		a. TOTAL	18	b. WITH CURRENT FIRM	16
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Knoxville, TN							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
PhD – Civil Engineering; MS – Civil Engineering; BS – Civil Engineering				Professional Engineer (FL, GA)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
Member, American Water Works Association; Member, Water Environment Federation							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Rehabilitation and Replacement Project, Shady Hills Wastewater Treatment Plant (WWTP), Pasco County, FL</b>			Professional Services	Construction (If Applicable)		
				<b>2019</b>	<b>Ongoing</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Quality Assurance/Quality Control (QA/QC).</b> Dr. Frizzell provided QA/QC services for the improvements at the Shady Hills WWTP. The improvements include a new, 17-mgd internal recycle pump station and piping, effluent flow metering, headworks odor control, improved process control for the activated sludge process, and new storage and mixing systems for the Grease/Septage Receiving Facility.</p>							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>South County Advanced Wastewater Treatment Facility Capacity Re-Rate Study, Hillsborough County, FL</b>			Professional Services	Construction (If Applicable)		
				<b>Ongoing</b>	<b>N/A</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>QA/QC.</b> Hillsborough County retained CDM Smith to perform a capacity evaluation for the South County Advanced Wastewater Treatment Facility (SCAWTF), which is currently permitted for an annual average daily flow (AADF) of 10 mgd. This capacity evaluation serves as the first step towards the goal of potentially re-rating the facility to a higher permitted treatment capacity, and involves conducting a desktop hydraulic and process analysis to determine the available treatment capacity, per unit, that can be achieved. Identifying the required improvements for an incremental increase in capacity, performing preliminary (planning level) process unit sizing for these improvements, and providing a corresponding planning level (Class 5) opinion of probable construction costs (OPCC). Dr. Frizzell is providing QA/QC services for this project.</p>							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Utilities Extension Project (UEP) North 2 Facilities Design and Construction Services, City of Cape Coral, FL</b>			Professional Services	Construction (If Applicable)		
				<b>2018</b>	<b>Ongoing</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Technical Reviewer.</b> The North 2 UEP area consists of adding potable water, wastewater, and irrigation services to an approximately 6.2 square miles residential area. Dr. Frizzell provide quality review of the hydraulic analyses for the extension of potable water transmission and distribution mains throughout the North 2 UEP area. The primary purpose of the hydraulic analyses of the potable water system was sizing the approximately 90 miles of proposed water mains to meet various flow conditions including peak hourly and fire flow requirements. Dr. Frizzell was also responsible for providing quality review for the hydraulic analyses for the design of 13 new sanitary pump stations and approximately 25 miles of force mains to transmit the wastewater collected in the project area to the City's existing water reclamation facilities.</p>							
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Three Oaks WWTP Preliminary Design Improvements, Lee County, FL</b>			Professional Services	Construction (If Applicable)		
				<b>2015</b>	<b>N/A</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Technical Reviewer.</b> As part of an expansion from 4-mgd to 8-mgd annual average daily flow, the headworks, oxidation ditches, clarifiers, filters, chlorine contact basin, RAS/WAS pump station, filter feed pump station, and transfer pump station will be upgraded at the Three Oaks WWTP. Dr. Frizzell provided technical review services of the hydraulic profiles and pump hydraulics at the Three Oaks WWTP.</p>							

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
Vipin Pangasa, PE, PMP, BCEE		Water, Wastewater, and Reclaimed Water Planning		a. TOTAL	30
				b. WITH CURRENT FIRM	26
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Tampa					
16. EDUCATION (degree and specialization)			17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)		
MS – Civil (Environmental) Engineering, MS – Chemistry, BE – Civil Engineering			Professional Engineer (FL)		
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
Project Management Professional (PMP), Board Certified Environmental Engineer (BCEE)					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>George T. Lohmeyer WWTP Renewal and Replacement (R&amp;R) Report, City of Fort Lauderdale, FL</b>				Professional Services	Construction (If Applicable)
				<b>2011</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p>a. <b>Design Lead.</b> For City of Lauderdale’s George T. Lohmeyer WWTP, Vipin led the project team efforts in preparing an annual update to the facility’s Capacity Analysis Report, R&amp;R Report and permit application for FDEP permit renewal. The work effort included multiple site visits and evaluations, interaction with the operations staff on structure and equipment condition as well as procedures and protocols and multiple meetings with the management staff. Additionally, CDM Smith also participated in City’s meeting with FDEP. The permit renewal was issued without a request for additional information. City was pleased with CDM Smith’s efforts and has requested CDM Smith to provide annual updates for the CAR report and the R&amp;R Report. Vipin will direct these updates as well.</p>					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>Shady Hills WWTP (and FOG Facility) Design of Improvements, Task Orders 1-16 and 3-16, Pasco County, FL</b>				Professional Services	Construction (If Applicable)
				<b>2019</b>	<b>Ongoing</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p>b. <b>Project Manager.</b> Based on our previous evaluation, the County authorized CDM Smith to provide design, bid and construction phase engineering services for the improvements recommended at this 14 mgd (AADF) facility. This work is being performed under two contracts with Mr. Pangasa leading the CDM Smith team. Contract 1 work is complete and in operation, and includes new 42-mgd internal recycle pumps with suction and discharge piping, as well as new flow meter for effluent flow measurement and chlorination control. Contract 2 is in construction and anticipated to be complete in March 2020. This phase includes numerous improvements throughout the WWTP and the Fats, Oils and Grease (FOG) Facility including but not limited to, Headworks improvements (screw conveyors and compactor, new aluminum covers for influent channels, new odor control system – wet scrubber), new slide gates to replace stop logs throughout the facility, new anoxic mixers, new DO and ORP probes and improvements to air feed control and monitoring, rehabilitation of two secondary clarifiers, new jet vac facility, new FRP grease and septage storage tanks, increased storage and improved feed for hot water at FOG facility, new HVAC design, etc.</p>					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>Shady Hills Wastewater Treatment Plant (WWTP) Evaluation, Pasco County, FL</b>				Professional Services	Construction (If Applicable)
				<b>2016</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p>c. <b>Project Manager.</b> For the Shady Hills WWTP, CDM Smith provided an evaluation of the wastewater facilities as well as the Fats, Oils and Grease (FOG) facility for rehabilitation, improvements or replacements that were required on an imminent basis. Mr. Pangasa led the team of process mechanical, hydraulics, HVAC, structural, electrical and I&amp;C engineers for this evaluation. As a result of this evaluation Pasco County authorized CDM Smith to provide design, bid and construction phase services for this plant which is anticipated to serve as their regional facility in the west region in the future.</p>					

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
David J. Prah, PE, BCEE		Water, Wastewater, and Reclaimed Water Planning		a. TOTAL	34	b. WITH CURRENT FIRM	34
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Jacksonville, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
BSE – Environmental Engineering				Professional Engineer (FL)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
Board Certified Environmental Engineer (BCEE), American Academy of Environmental Engineers and Scientists; Member, American Society of Civil Engineers; Member, American Water Works Association; Member, Florida Engineering Society; Member, Water Environment Federation							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Clearwater WTP No. 1 Low Pressure Reverse Osmosis (LPRO) Final Design Improvements, City of Clearwater, FL</b>			Professional Services	Construction (If Applicable)		
				<b>2016</b>	<b>2016</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<b>Technical Reviewer.</b> Mr. Prah served as the technical reviewer and technical resource for the design improvements associated with the membrane replacement, the skid piping modifications, and an arsenic adsorption system.							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>West Nassau Regional WTP (WNRWTP) Expansion Phase 1B, JEA, Jacksonville, FL</b>			Professional Services	Construction (If Applicable)		
				<b>2018</b>	<b>2018</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<b>Technical Reviewer.</b> CDM Smith to provide design, permitting, bidding, and engineering services during construction for the 3.6 mgd AADF WNRWTP Expansion. For the expedited project schedule, parallel design and construction paths were implemented for the well drilling and WTP improvements. Part 1 of this project involved design, permitting, and engineering services during construction for a new 2,500 gpm capacity lower Floridan Production Well. Part 2 included preliminary and final design, permitting, and engineering services during construction for the expansion of the WTP components, including a 0.75-MG new pre-stressed GST, well pump and header, sodium hypochlorite disinfection system, four high service pumps equipped with variable frequency drives (VFD), emergency diesel engine driven generator with a 4,000 gallon above ground fuel tank, pre-engineered metal building, supervisory control and data acquisition (SCADA) instrumentation, and large diameter raw water pipeline. Mr. Prah served as technical reviewer for this project.							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Northwest Water Treatment Plant (NW WTP) Phases B and C Expansion, St. Johns County, FL</b>			Professional Services	Construction (If Applicable)		
				<b>2013</b>	<b>2013</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<b>Technical Reviewer.</b> Mr. Prah served as technical reviewer for the NW WTP Phases B and C Expansion which consisted of modifying the treatment processes and expanding the treatment plant capacity from 1.44 mgd to 6 mgd to meet the increased potable water demand. This project involved engineering design services, permitting services, bidding services, and engineering services during construction.							
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Ozonator Replacement Final Design, Orlando Utilities Commission (OUC), FL</b>			Professional Services	Construction (If Applicable)		
				<b>2016</b>	<b>2016</b>		
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<b>Technical Reviewer.</b> OUC is implementing the ozonator replacement project to address issues associated with existing older ozone equipment at seven of its WTPs. Included in the project is assessment of existing ozone treatment processes. The project included ozone dissolution, including sidestream injection, ozone generator replacement, and conversion of swing air pump system to liquid oxygen for the oxygen supply source. Mr. Prah is serving as a technical reviewer.							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
<b>Michael Graham</b>		Electrical and Instrumentation/Controls		a. TOTAL	27
				b. WITH CURRENT FIRM	24
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Tampa, FL					
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)	
BS – Mechanical Engineering				Professional Engineer (FL, TN, MN)	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
N/A					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Replacement of Pump No. 7 at the High Service Pump Station (HSPS), Tampa Bay Water, FL</b>			Professional Services	Construction (If Applicable)
				<b>2019</b>	<b>Ongoing</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>Instrumentation Engineer.</b> CDM Smith provided design, permitting, and bidding phase services for modifications to Tampa Bay Water’s HSPS at its Regional Facility Site (RFS) HSPS in order to provide increased capacity to meet demands. Our team designed the following modifications: replacement of the existing 600-hp Pump No. 7 with a new 2,000-hp pump to match existing Pump Nos. 1 – 6; replacement of discharge piping and valves; and power distribution system modifications to support the addition of one new medium voltage VFD and new 2,000-hp pump. Mr. Graham provided automation design documents incorporating the new VFD into the existing PLC and HMI control system.</p>					
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Membrane Filtration Pretreatment Improvements, Pinellas County, FL</b>			Professional Services	Construction (If Applicable)
				<b>Ongoing</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>Instrumentation Engineer.</b> The 2.5-mgd industrial water treatment plant (IWTP) located at Pinellas County’s Bridgeway Acres Landfill (BWA) utilizes alum clarification, microfiltration (MF), and reverse osmosis (RO) to treat pond water for use by the Waste-to-Energy (WTE) facility on site. However, performance constraints with the existing solids contact clarifier system have restricted the IWTP MF system from attaining its full design production capacity, resulting in issuance of a Consent Order (CO) requiring the facility attain its full capacity in fewer than 24 months. Pinellas County retained CDM Smith to identify a solution to help the County comply with the CO. Mr. Graham is providing automation design for incorporating a new treatment train into the IWTP’s existing SCADA system. He is also monitoring a chemical pilot test through the existing SCADA system.</p>					
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Three Oaks Wastewater Treatment Plant (WWTP) Oxidation Ditch Improvements, Lee County, FL</b>			Professional Services	Construction (If Applicable)
				<b>2018</b>	<b>2019</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>I&amp;C Construction Lead.</b> Mr. Graham served as the I&amp;C lead for the construction of the \$31.5M oxidation ditch improvement project that assessed the overall treatment capacity of this 6.0 mgd facility due to increased biological loadings to the facility over the past several years. The assessment included evaluation of the facility headworks, oxidation ditches, brush aeration system, secondary clarifiers, filters, disinfection system, sludge holding tanks, belt filter presses, reclaimed water pumping and storage, and deep well injection. BioWin™ modeling of the secondary treatment process was done to validate and support design decisions. Final design services included the design of a new 2.0 mgd oxidation ditch process train, three secondary clarifiers, and two new sludge pump stations. Mr. Graham was specifically responsible for the automation design, engineer-of-record, construction services, and field inspection services for the Three Oaks WWTP Oxidation Ditch Improvements project.</p>					

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
<b>Cynthia L. Stellmack, PE</b>		Electrical and Instrumentation/Controls		a. TOTAL	<b>39</b>	b. WITH CURRENT FIRM	<b>16</b>
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Orlando, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
BS – Electrical Engineering				Professional Engineer (FL)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
Member, Institute of Electrical and Electronics Engineers (IEEE); Member, IEEE Industry Applications Society							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Three Oaks Wastewater Treatment Plant Oxidation Ditch Improvements, Lee County, FL</b>			Professional Services		Construction (If Applicable)	
				<b>2018</b>		<b>2019</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE						<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>Electrical Design Engineer.</b> Cindy led the electrical design team for plant expansion. She wrote the electrical section of the preliminary design report and provided oversight and direction during design. She provided the electrical engineering services during the project construction. Highlights of the electrical design include replacement and/or re-feeding of four existing 480-volt motor control centers along with two additional new 480-volt motor control centers in a new electrical building. Project scope includes a new administration building, new oxidation ditch, three new secondary clarifiers and associated RAS/WAS pumping stations, and the addition of a belt filter press for dewatering of solids.</p>							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Punta Gorda WWTP Evaluation, City of Punta Gorda, FL</b>			Professional Services		Construction (If Applicable)	
				<b>2018</b>		<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE						<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>Electrical Engineer.</b> Cindy provided the electrical section of the report evaluating non-process systems at the WWTP. The report included an evaluation of the electric bills, standby generator capacity, electrical distribution system.</p>							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Marco Island Reclaimed Water Production Facility (RWPF), City of Marco Island, FL</b>			Professional Services		Construction (If Applicable)	
				<b>2011</b>		<b>2014</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE						<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p><b>Lead Electrical Engineer.</b> CDM Smith provided preliminary design, final design, bidding services, and construction services for the seven-year, four-phase expansion of the City's RWPF from 3.5- to 5-mgd ADF, with a peak hour flow capacity of 10-mgd. Throughout this project, the City of Marco Island relied upon Cindy provided planning, design, construction support, and advice for their wastewater treatment facility (WWTF) electrical systems. Improvements during this expansion project included biosolids processing, a new on-grade influent pump station, equalization tanks, addition of supplemental reclaimed water filters, and effluent management through surface water discharge.</p>							

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
W. Scott Whitmore, PE		Electrical and Instrumentation/Controls		a. TOTAL	26	b. WITH CURRENT FIRM	23
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Orlando, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
BS – Mechanical Engineering				Professional Engineer (FL, AL, SC, TN)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
International Society of Automation (ISA)							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Southwest Water Reclaimed Facility Upgrades and Utilities Extension Project North 2, City of Cape Coral, FL			Professional Services		Construction (If Applicable)	
				2017		Ongoing	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Lead Engineer. Scott was the lead engineer responsible for the automation portion of an upgrade to the deep well injection capacity of a water reclamation facility, and for a multi-contract expansion of the City's wastewater infrastructure including lift stations and master pumping stations, using Allen-Bradley and HSQ equipment.							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Conway WTP Ozone Improvement Program, Orlando, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Lead Engineer. Scott is the lead engineer for the automation component of the upgrade of ozone disinfection systems in a WTF, principally serving to bring vendor-implemented controls into full coordination with the existing control system.							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	West Nassau Regional WTP Phase 1B, JEA, Jacksonville, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Lead Engineer. Scott was the lead engineer for the total refurbishment of the plant control system, as part of facility expansion and modernization. He provides design, permitting, bidding, and engineering services during construction for the 3.6-mgd AADF WNRWTP Expansion. For the expedited project schedule, parallel design and construction paths were implemented for the well drilling and WTP improvements. The project is split into two parts. Part 1 involves design, permitting, and engineering services during construction for a new 2,500-gpm capacity lower Floridan Production Well. Part 2 involves preliminary and final design, permitting, and engineering services during construction for the expansion of the WTP components, including a 0.75-MG new pre-stressed GST, well pump and header, sodium hypochlorite disinfection system, four high service pumps equipped with VFDs, emergency diesel engine driven generator with a 4,000 gallon above ground fuel tank, pre-engineered metal building, SCADA instrumentation, and large diameter raw water pipeline. Scott was the lead engineer for the total refurbishment of the plant control system, as part of facility expansion and modernization. He also led the instrumentation and controls design, including new control panels for each process area, based on Siemens S7-300 and 400 series controllers, linked together by fiber optic cabling.							
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Mandarin WRF Equalization Tank and High Level UV Upgrades, JEA, Jacksonville, FL.			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Lead Engineer. Scott was the lead engineer for the automation component of a process upgrade of a water reclamation facility that included addition of equalization capacity and pumping, ultraviolet disinfection and reuse, incorporating new Siemens PLC equipment into an existing control system.							
e.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Greenland WTP Ozone Improvement Project, JEA, Jacksonville, FL			Professional Services		Construction (If Applicable)	
				2018		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Lead Engineer. Scott was the lead engineer for the automation component of the addition of ozone disinfection to a WTF that serves the adjacent electric power plant, principally serving to bring vendor-implemented controls into full coordination with the existing control system.							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
<b>James T. Wittig, PE</b>		Stormwater/Civil Site		a. TOTAL	<b>34</b>
				b. WITH CURRENT FIRM	<b>31</b>
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Orlando, FL					
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)	
ME – Environmental Engineering; ME – Industrial and Systems Engineering; BS – Environmental Engineering				Professional Engineer (FL)	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
Member, Florida Engineering Society; Member, National Society of Professional Engineers; Member, Water Environment Federation					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>Reclaimed Water Production Facility Improvements and Expansion, City of Marco Island, FL</b>				Professional Services	Construction (If Applicable)
				<b>2011</b>	<b>2014</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p>a. <b>Site/Civil Engineer.</b> CDM Smith provided design, services, and construction phase services for the seven-year, four-phase \$78.5M expansion of the City’s Reclaimed Water Production Facility from 3.5 mgd to 5 mgd ADF, with a peak hour flow capacity of 10 mgd. As part of the overall expansion, we evaluated the existing headworks structure and determined that it could be retrofitted to accept 2 mm drum screens. A superstructure was added to the outside of the existing headworks structure to help carry the additional weight of three new drum screens. Additionally, structural repairs were required and odor control piping points were reconfigured to mitigate the potential for future formation of pockets of hydrogen sulfide. We prepared final design drawings and specifications for all four phases of the RWPF project, including the 5-mgd ADF, 10-mgd PHF headworks and influent pump station. Jim led the site/civil design for stormwater management, and was also responsible for stormwater permitting.</p>					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>Southwest WRF Expansion, JEA, Jacksonville, FL</b>				Professional Services	Construction (If Applicable)
				<b>Ongoing</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p>b. <b>Site/Civil Engineer.</b> CDM Smith was retained by JEA to provide design, permitting, bidding, and construction phase services for the \$8M expansion of the Southwest WRF from 16 mgd to 18 mgd. This includes one new 54-mgd headworks structure with screening and grit removal, one new BNR train, two new secondary clarifiers, new tertiary filtration system, replacement of UV systems, expansion of the effluent pump station, and associated electrical and I&amp;C improvements. Jim is providing civil/site and stormwater permitting services for the new facilities currently being designed.</p>					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>Northwest WRF, St. Johns County, FL</b>				Professional Services	Construction (If Applicable)
				<b>2016</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p>c. <b>Site/Civil Engineer.</b> CDM Smith was responsible for the preliminary design, final design, permitting, bidding, and services during construction of a new 3-mgd regional wastewater treatment facility to provide for the wastewater treatment needs of the developments located in the Northwest service area. The new \$25.8M, 3-mgd uses 4-stage Bardenpho process to produce high quality effluent for irrigation, filtration, UV system for disinfection, and belt press filter and sludge holding tank for sludge treatment. Jim was responsible for the stormwater design for the WRF.</p>					

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE		
Kevin M. Francoforte, PE		Structural		a. TOTAL	15	b. WITH CURRENT FIRM
						13
15. FIRM NAME AND LOCATION (City and State)						
CDM Smith – Orlando, FL						
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)		
MS – Structures and Foundations; BS – Mechanical Engineering				Professional Engineer (FL)		
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):						
Confined Space Entry; Member, American Institute of Steel Construction; Member, American Society of Civil Engineers						
19. RELEVANT PROJECTS						
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed		
	South District WWTP CD 1.09 Fog Removal Facility, Miami-Dade County, FL			Professional Services	Construction (If Applicable)	
				2019	Ongoing	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
Structural Engineer-of-Record. Mr. Francoforte completed the structural design calculations for a new exterior 4-ton overhead bridge crane, supported off structural steel framing and pile supports. Structural steel frame was designed for severe wind and flood loading as well as potential sea-level rise due to project location. Additionally, his responsibilities included submittal reviews, and RFIs during construction.						
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed		
	Valrico AWTP Ground Storage Tank Rehabilitation, Hillsborough County, FL			Professional Services	Construction (If Applicable)	
				2016	2016	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
Structural Engineer. The existing 5-MG reclaimed water storage tank, located at the County’s Valrico AWTP, was cracked at the mid-section. CDM Smith provided engineering services to inspect the tank from the outside as well as inside to identify the source of the crack and subsequent leaking. Mr. Francoforte performed the structural evaluations as part of this project, which required confined space entry. Following his inspection, he provided recommendations for repair. Subsequently, Mr. Francoforte provided structural design services as part of the implementation of the recommended repairs, as well as construction phase engineering and inspection services.						
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed		
	Off-Stream Reservoir Pump Station, Tampa Bay Water, FL			Professional Services	Construction (If Applicable)	
				2011	2011	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
Structural Engineer. Mr. Francoforte assisted other project engineers with the structural design calculations and 3D AutoCAD model for an electrical building. The calculations included the design of reinforced masonry shear walls, connection of pre-engineered metal roof trusses, and reinforced concrete strip foundations. His responsibilities included on-site inspections, submittal review, and requests for information (RFIs).						
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed		
	Tampa Bay Regional Water Treatment Plant (WTP) Facility Modification Work, Hillsborough County, FL			Professional Services	Construction (If Applicable)	
				2010	2010	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
Structural Engineer. Mr. Francoforte assisted the lead structural engineer with the structural design calculations for the electrical building, chemical feed building, and chemical storage structure. The calculations included the design of reinforced masonry shear walls, connection of pre-engineered metal roof trusses, metal joists with composite metal deck, and reinforced concrete strip foundations. His responsibilities included on-site inspections, submittal review, and RFIs.						
e.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed		
	Existing Treatment Capacity Structural Evaluation, City of Punta Gorda, FL			Professional Services	Construction (If Applicable)	
				Ongoing	N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
Structural Engineer-of-Record. Mr. Francoforte performed a visual structural evaluation for the existing 4-mgd WWTP, documenting deficiencies and providing recommendations for structural repairs and improvements.						

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
W. Todd Stevenson		Construction Administration		a. TOTAL	30	b. WITH CURRENT FIRM	2
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Fort Myers, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
N/A				N/A			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
Leadership in Changing Times; Behavior Based Safety; Nuclear Plant Maintenance; Radiation Workers Training; Nuclear Plant Safety; Planners Training; Soils Testing Class; Certified Compaction Tester; ACI Certified Concrete Tester; State of Wyoming Level 1 Water Operator							
19. RELEVANT PROJECTS							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Utilities Extension Project (UEP) North 2 Facilities Design and Construction Services, City of Cape Coral, FL</b>				Professional Services		Construction (If Applicable)	
				<b>2017</b>		<b>Ongoing</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p>a. <b>Construction Inspector.</b> The North 2 UEP area consists of adding potable water, wastewater, and irrigation services to an approximately 6.2 square miles residential area. CDM Smith performed hydraulic analyses using Innovzye InfoWater for the extension of potable water transmission and distribution mains throughout the North 2 UEP area. The primary purpose of the hydraulic analyses of the potable water system was sizing the approximately 90 miles of proposed water mains to meet various flow conditions including peak hourly and fire flow requirements. CDM Smith was also responsible for performing hydraulic analyses using Innovzye InfoWater for the design of 13 new sanitary pump stations and approximately 25 miles of force mains to transmit the wastewater collected in the project area to the City’s existing water reclamation facilities. Our team oversaw the design of 13 sanitary duplex lift stations, two sanitary master pump stations, and two canal pump stations for transmitting surface water for irrigation purposes. Mr. Stevenson is currently serving as a construction inspector during CDM Smith’s provision of construction engineering and inspection (CEI) services for the construction phase of this project.</p>							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>City of Sarasota, FL</b>				Professional Services		Construction (If Applicable)	
				<b>2018</b>		<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input type="checkbox"/> PERFORMED WITH CDM SMITH			
<p>b. <b>Engineering Technician III – Capital Improvement Program (CIP) Inspector.</b> While with the City of Sarasota, as a engineering technician, Mr. Stevenson inspected utilities to determine compliance with plans and specifications and quality of materials and workmanship. He also inspected all construction in the public right-of-way (ROW) within assigned areas, made field calculations and determined plan for field procedures, and assisted with the review of site and development plans of private and City development.</p>							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Central Advanced Wastewater Treatment Facility (AWWTF) and South AWWTF Electrical System Upgrades, City of Fort Myers, FL</b>				Professional Services		Construction (If Applicable)	
				<b>Ongoing</b>		<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p>c. <b>Senior Construction Representative.</b> Mr. Stevenson monitors the construction work to upgrade the electrical systems and the screening and grit removal processes at two wastewater treatment facilities for compliance with the construction drawings and specifications. His responsibilities include: assessing the quality of materials and workmanship, verifying alignment and component compatibilities, witnessing field quality control testing, tracking approved submittals and responded RFIs, coordinating with plant operations, communicating issues and resolutions with the Engineer-of-Record, coordinating and witnessing equipment testing and start-up activities, attending and participating in construction progress meetings, reviewing and approving contractor’s progress payment applications, and preparing daily written and photographic reports documenting the progress and quality of the work.</p>							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
George E. Reilly, PE		Construction Administration		a. TOTAL	50	b. WITH CURRENT FIRM	12
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Fort Myers, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
BS – Civil Engineering				Professional Engineer (FL)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
Member, Water Environment Federation; Member, American Water Works Association							
19. RELEVANT PROJECTS							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Utilities Extension Project (UEP) North 2 Facilities Design and Construction Services, City of Cape Coral, FL</b>				Professional Services		Construction (If Applicable)	
				2017		Ongoing	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p>a. <b>Construction Engineer/Value Engineering.</b> The North 2 UEP area consists of adding potable water, wastewater, and irrigation services to an approximately 6.2 square miles residential area. Our team team performed hydraulic analyses using Innowyze InfoWater for the extension of potable water transmission and distribution mains throughout the North 2 UEP area. The primary purpose of the hydraulic analyses of the potable water system was sizing the approximately 90 miles of proposed water mains to meet various flow conditions including peak hourly and fire flow requirements. CDM Smith was also responsible for performing hydraulic analyses using Innowyze InfoWater for the design of 13 new sanitary pump stations and approximately 25 miles of force mains to transmit the wastewater collected in the project area to the City’s existing water reclamation facilities. We oversaw the design of 13 sanitary duplex lift stations, two sanitary master pump stations, and two canal pump stations for transmitting surface water for irrigation purposes. Mr. Reilly participated as part of the design team conducting design reviews and value engineering (VE). The VE effort was used to help secure funding from the state of Florida’s SRF low interest loan program. As construction engineer, his primary responsibilities include participation in team coordination meetings, construction progress meetings, requests for information (RFIs), shop drawings, requests for proposals (RFPs), change orders, pay requests, on site inspections, supervision of construction inspectors, and communications with the contractors for two master wastewater pump stations, 12 neighborhood pump stations, and one canal irrigation pump station</p>							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Infiltration/Inflow (I/I) Study and Improvements, City of Cape Coral, FL</b>				Professional Services		Construction (If Applicable)	
				2008		2008	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p>b. <b>City Utility Manager/Project Manager.</b> As the City project manager, prior to his time with CDM Smith, Mr. Reilly directed a study and improvements to the existing gravity sewer system reducing the I/I into the gravity sewer system by 1.5-mgd saving operating costs and substantially reducing future capital expansion costs. The City was experiencing large quantities of infiltration/inflow into an older portion of the City’s clay pipe gravity collection system. During rain events flows increased dramatically at the City’s Everest Water Reclamation Facility (WRF).</p>							
(1) TITLE AND LOCATION (City and State)				(2) Year Completed			
<b>Utility Improvements, City of Cape Coral, FL</b>				Professional Services		Construction (If Applicable)	
				2008		2008	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<p>c. <b>City Utility Manager.</b> Prior to his time with CDM Smith, Mr. Reilly was the City utility manager responsible for developing additional alternative water supplies to be used in the City’s dedicated irrigation system by the City’s 40,000 irrigation customers. The City has a dedicated irrigation system with approximately 700 miles of irrigation pipeline and five canal pump stations. The irrigation system receives 100% of its water supply from two alternative sources which include surface water from 200 miles of freshwater canals and reuse water from its two WRFs. Because of rapid growth in the City, demand on the irrigation system increased dramatically to almost 40 mgd during the dry season. Several projects were developed that included irrigation water transfer pump stations and weir improvements that increased storage capacity from 2.1 billion gallons to 3.2 billion gallons in the City’s 18 freshwater canal basins. Mr. Reilly prepared and submitted grant applications for these projects, which all qualified and received Alternative Water Supply Grant Funding from the South Florida Water Management District (SFWMD).</p>							

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
John S. Chandler		Construction Administration		a. TOTAL	38	b. WITH CURRENT FIRM	13
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Atlanta, GA							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
BA – Mathematics				N/A			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
N/A							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Water Treatment and Raw Water Production Systems Continuing Contract, Broward County, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Construction Manager. For more than 14 years, CDM Smith has been providing water treatment and raw water production system services on a continuing basis for Broward County's water treatment system. Under our current Water Treatment and Raw Water Production Systems contract with the County, Mr. Chandler provided construction management services for more than six work authorizations.							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	North 2 Utility Extension Project (UEP), City of Cape Coral, FL			Professional Services		Construction (If Applicable)	
				Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Construction Manager. The North 2 Utility Extension Project area consists of adding sanitary sewer, potable water, and irrigation services to an approximately 6.2 square miles residential area. Mr. Chandler oversaw construction engineering and inspection staff for the two pump station projects and five utility pipeline projects in the North 2 UEP area. Mr. Chandler was responsible for personnel assignments, technical oversight, and overall quality management of the construction engineering and inspection staff.							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Anion Exchange Treatment Facility for Broward County Water Treatment Plant 1A, Lauderdale Lakes, FL			Professional Services		Construction (If Applicable)	
				2012		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Construction Manager. John provided construction services for high service pumping system and blending clearwell improvements, as well as associated electrical, instrumentation, and site improvements for Broward County Water & Wastewater Services.							
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Nanofiltration Water Treatment Plant Addition, City of Dania Beach, FL			Professional Services		Construction (If Applicable)	
				2012		2012	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Design-Build Coordinator. For this design-build project, Mr. Chandler provided coordination between the designer and builder to expedite construction of the new 2.0 mgd nanofiltration water treatment facility, which included a new LEED® certified membrane building and control room, new odor control and chemical feed systems, new transfer pumps, and associated electrical, instrumentation and site work, as well as the integration of the existing lime softening treatment plant, high service pump station and finished water storage facilities into the new plant controls and power systems for the City of Dania Beach.							
e.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	Water Treatment Plant Solids Handling System and Process Water Recovery, Dania Beach, FL			Professional Services		Construction (If Applicable)	
				2010		N/A	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
Technical and Constructability Reviewer. Mr. Chandler provided technical and constructability reviews for the design of a new solids handling and process water recovery system for the City of Dania Beach Water Treatment Plant.							

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE			
<b>Michael T. Alford, AIA, LEED® AP BD+C</b>		Architectural		a. TOTAL	22	b. WITH CURRENT FIRM	19
15. FIRM NAME AND LOCATION (City and State)							
CDM Smith – Orlando, FL							
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)			
Master of Architecture; BS – Architectural Studies				Registered Architect (FL, SC, NC, GA, TN, AL, KY, VA, WA, LA)			
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):							
National Council of Architectural Registration Boards (NCARB); Leadership in Energy and Environmental Design Accredited Professional – Building Design & Construction (LEED® AP BD+C); 2006 AIA Orlando Young Architects Forum Achievement Award, 2004; AIA National Associates Committee Certificate of Appreciation							
19. RELEVANT PROJECTS							
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Rehabilitation and Replacement Project, Shady Hills Wastewater Treatment Plant (WWTP), Pasco County, FL</b>			Professional Services		Construction (If Applicable)	
				<b>2019</b>		<b>Ongoing</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Project Architect.</b> Mr. Alford served as the project architect for the improvements at the Shady Hills WWTP. The improvements include a new, 17-mgd internal recycle pump station and piping, effluent flow metering, headworks odor control, improved process control for the activated sludge process, and new storage and mixing systems for the Grease/Septage Receiving Facility.</p>							
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Three Oaks Waste Water Treatment Plant, Lee County, FL</b>			Professional Services		Construction (If Applicable)	
				<b>2015</b>		<b>2018</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Architect-of-Record.</b> Mr. Alford was the architect-of-record for the design, bid and construction phases of the \$1.43 million Three Oaks WWTP expansion. New buildings include an Administration Building with direct access to a new Outdoor Pavilion and existing administration building as well as a New Electrical Building.</p>							
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Electrical Upgrades, City of Fort Myers, FL</b>			Professional Services		Construction (If Applicable)	
				<b>Ongoing</b>		<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Architect-of-Record.</b> CDM Smith prepared a PDR for electrical upgrades to the AWWTFs, oversaw the project design and bidding and is not serving as the City's representative during construction. Michael served as architect-of-record.</p>							
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed			
	<b>Wastewater Treatment Plant Capacity Evaluations and Alternatives Analysis, City of Punta Gorda, FL</b>			Professional Services		Construction (If Applicable)	
				<b>2018</b>		<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH				
<p><b>Architect-of-Record.</b> This project included an existing treatment capacity evaluation of each unit process at the WWTP and involved analysis of current and projected wastewater flows and loads to the plant, review of regulatory requirements, and non-process evaluation of the WWTP which would serve as the basis for a subsequent Master Planning Study of the WWTP. Based on the capacity evaluation findings, CDM Smith was tasked with evaluating two improvement scenarios to restore full treatment capacity of the plant.</p>							

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
<b>Diane C. Kemp</b>		Financial Assistance		a. TOTAL	<b>38</b>
				b. WITH CURRENT FIRM	<b>33</b>
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Tampa, FL					
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)	
BA – Economics and Accounting				N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
N/A					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>SRF Funding, City of Cape Coral, FL</b>			Professional Services	Construction (If Applicable)
				<b>2012</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<p><b>Financial Specialist.</b> Diane has provided SRF assistance to the City of Cape Coral, beginning in 1991 and includes nearly \$400M in funds. Diane was called on to complete the disbursement requests for the Southwest area projects and was instrumental in the financial sections of the North 2 Utility Extension Project (UEP) loan process. Diane prepared the financial section of the Facility Plan, including the impact of the project on existing customer costs. Diane reviewed and assisted in compiling data for the projects receiving SRF funding and met with City staff, consultants and FDEP in finalizing the SRF funding for the expansion projects, maximizing the eligibility and completing the application process. Upon completion of these updates, Diane assisted the City in modifying the existing letter report outlining the findings, status, and recommendations for funding through the FDEP SRF Program.</p>					
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Falkenburg Road Complex – Power Distribution Analysis, Hillsborough County, FL</b>			Professional Services	Construction (If Applicable)
				<b>Ongoing</b>	<b>Ongoing</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<p><b>Financial Specialist.</b> Hillsborough County requested CDM Smith’s services to provide an analysis of distributing electricity from its Resource Recovery Facility (RRF) located at 350 N Falkenburg Road to all County owned facilities on the same property. Currently, the RRF is supplying power to the Woodberry Pump Station, Falkenburg Wastewater Treatment Plant, Brandon Service Operations Center (BSOC), and Central Hillsborough Water Treatment Facility. The remaining facilities are Falkenburg Road Jail, East Central Warehouse Facility, Animal Services Facility, Public Utilities Department Lab, Public Safety Operations Center (PSOC), a new Chiller Plant, and a Sports complex. Currently power for these facilities is provided by Tampa Electric Company (TECO). As part of this analysis, Ms. Kemp is providing financial assistance services for this project.</p>					
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Preparation of State Revolving Fund (SRF) Loan Documents for Various Wastewater and Water Projects, City of Clearwater, FL</b>			Professional Services	Construction (If Applicable)
				<b>2010</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<p><b>Financial Specialist.</b> Diane provided SRF services to the City of Clearwater, qualifying them for \$39M in low-interest loans for wastewater projects and \$7M for water projects. The planning and financing documents were prepared and public hearing assistance provided.</p>					
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Preparation of SRF Loan Documents for Various Wastewater and Water Projects, City of St. Petersburg, FL</b>			Professional Services	Construction (If Applicable)
				<b>2013</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<p><b>Financial Specialist.</b> Diane has provided SRF services to the City of St. Petersburg since the 1990s, qualifying them for over \$140M in low-interest loans. The planning and financing documents were prepared, public hearing assistance provided and loan applications prepared.</p>					
e.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Preparation of SRF Loan Documents for Various Wastewater and Reclaimed Water Projects, City of Orlando, FL</b>			Professional Services	Construction (If Applicable)
				<b>2018</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<p><b>Financial Specialist.</b> Diane has provided SRF services to the City of Orlando since 2003, qualifying them for over \$150M in low-interest loans. The planning and financing documents were prepared, public</p>					

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
<b>Andrew Baranowski</b>		Mapping, Survey and SUE		a. TOTAL	<b>31</b>
				b. WITH CURRENT FIRM	<b>27</b>
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Boca Raton, FL					
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)	
BA – General Studies				N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
Geographic Information Systems Professional (GISP) 23354 Certification; Gold Coast Regional Director, Florida Urban and Regional Information Systems Association; Member Florida Surveying & Mapping Society (FSMS) Broward Chapter; Member, Broward County GIS Users Group; Member, Urban and Regional Information Systems Association; Member, Palm Beach County GIS Forum; Steering Committee Member, South Florida GIS EXPO, (2007-Present)					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>Sanitary Sewer Evaluation Surveys (SSES), Palm Beach County, FL</b>				Professional Services	Construction (If Applicable)
				<b>2017</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p>a. <b>Project Technical Coordinator/QA Manager.</b> The PRASA Technical Integration Project involved the reengineering of the PRASA water and Sewer GIS data into a modern and efficient GIS database design. Mr. Baranowski was responsible for guiding the design and implementation of an island-wide GIS data maintenance and update program for PRASA sewer and water GIS data. He also managed the creation and execution of a quality assurance (QA) program to validate the quality of the data created during data maintenance and update activities performed by PRASA staff.</p>					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>Water Main and Force Main Infrastructure Criticality and Risk Assessment, City of Boca Raton, FL</b>				Professional Services	Construction (If Applicable)
				<b>2017</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p>b. <b>GIS Manager.</b> As part of the City of Boca Raton’s efforts to assess the extent of needed rehabilitation and replacement of the water and sewer system, Mr. Baranowski led the processing and analysis of available data to assess the risk of pipe failure in the utility network using InfoMaster. The prioritization of pipes was determined based on risk factors, which were separated into groups by probability and consequence of failure.</p>					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>Retail Potable Water and Wastewater Master Plan, Broward County, FL</b>				Professional Services	Construction (If Applicable)
				<b>2016</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p>c. <b>GIS Manager.</b> CDM Smith developed a Retail Potable Water and Wastewater Master Plan for a future forecast year of 2040 to address retail facilities within the County’s four service areas (known as Districts 1, 2, 3A, and 3BC). As part of this effort, our team developed a hydraulic model of the County’s retail potable water, water, and wastewater systems, utilizing ESRI ArcGIS, InfoWater, and InfoSWMM, respectively, to develop a detailed and accurate model. In addition, our team was also responsible for data collection and cataloging. Mr. Baranowski provided GIS mapping services for the development of these master plans.</p>					
(1) TITLE AND LOCATION (City and State)				(2) Year Completed	
<b>City of Miami Comprehensive Stormwater Master Plan [Project B-30632A], City of Miami, FL</b>				Professional Services	Construction (If Applicable)
				<b>Ongoing</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE				<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH	
<p>d. <b>Data Conversion Manager/QA Process Design Lead.</b> The City of Miami Comprehensive Stormwater Master Plan involves the development of a hydrologic and hydraulic evaluation of the City of Miami stormwater management system using the Stormwater Management Model (XPSWMM) for the purpose of flood control. The GIS component involves combining existing stormwater data from various sources and formats into a single GIS database capable of supporting the modeling tasks required for the project. Mr. Baranowski is responsible for coordinating the GIS data conversion activities required to support the Stormwater master plan for the City of Miami. Mr. Baranowski also managed the design and the implementation of the QA/QC processes used in support of the Data conversion effort.</p>					

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
Craig A. Gadberry, PE		Alternative Project Delivery and Cost-Estimating		a. TOTAL	27
				b. WITH CURRENT FIRM	18
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Orlando, FL					
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)	
BS – Civil Engineering				Professional Engineer (FL)	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
Member, Florida Engineering Society; Member, National Society of Professional Engineers; Member, American Society of Professional Estimators; Member, Association for the Advancement of Cost Engineering International					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>UEP North 2 Facilities Design and Construction Services, City of Cape Coral, FL</b>			Professional Services	Construction (If Applicable)
				2017	Ongoing
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<p><b>Chief Estimator.</b> The North 2 Utility Extension Project area consists of adding potable water, wastewater, and irrigation services to an approximately 6.2 square miles residential area. Craig provided cost estimating services for the design of 13 new sanitary pump stations and two sanitary master pump stations, two canal pump stations for transmitting surface water for irrigation purposes, and approximately 25 miles of force mains to transmit the wastewater collected in the project area to the City’s existing water reclamation facilities.</p>					
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Three Oaks WWTP Oxidation Ditch Improvements, Lee County, FL</b>			Professional Services	Construction (If Applicable)
				2018	2019
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
<p><b>Chief Estimator.</b> Craig was the chief estimator for the \$31.5M oxidation ditch improvement study and final design that assessed the overall treatment capacity of this 6.0-mgd facility due to increased biological loadings to the facility over the past several years. The assessment included evaluation of the facility headworks, oxidation ditches, brush aeration system, secondary clarifiers, filters, disinfection system, sludge holding tanks, belt filter presses, reclaimed water pumping and storage, and deep well injection. BioWin™ modeling of the secondary treatment process was done to validate and support design decisions. Final design services included the design of a new 2.0-mgd oxidation ditch process train, three secondary clarifiers, and two new sludge pump stations. This project was delivered through CMAR and successfully constructed.</p>					
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>Program Management Services, Lee County Public Utilities, 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"/> PERFORMED WITH CDM SMITH		
<p><b>Chief Estimator.</b> Lee County Public Utilities (LCPU) contracted with CDM Smith to provide Program Management Services to provide a wide range of activities to support and assist in the delivery of various CIPs. Under this contract, we are serving as a full-time extension of LCPU staff as a project manager, responsible for project administration, scope development and analysis, administration and oversight of design consultants, administration and oversight of permit acquisitions and project closeout documentation. Craig served as chief estimator, providing OPCCs for various projects identified under this ongoing program management contract.</p>					
d.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	<b>South AWWTF Reclaimed Water Alternatives Evaluation, City of Fort Myers, 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"/> PERFORMED WITH CDM SMITH		
<p><b>Chief Estimator.</b> The scope of this project is to evaluate different alternatives for reclaimed water and effluent disposal that will be sent to the City of Fort Myers. This includes preliminary designs for a reclaimed water pipeline layout, pump stations, and deep injection wells. Craig prepared the OPCC for the various alternatives identified as part of this project.</p>					

12. NAME		13. ROLE IN THIS CONTRACT		14. TOTAL YEARS EXPERIENCE	
Stephen M. Solters		Alternative Project Delivery and Cost-Estimating		a. TOTAL	44
				b. WITH CURRENT FIRM	16
15. FIRM NAME AND LOCATION (City and State)					
CDM Smith – Tampa, FL					
16. EDUCATION (degree and specialization)				17. CURRENT PROFESSIONAL REGISTRATION (state and discipline)	
Coursework, Business Administration and Life Sciences; Coursework, Allegheny County Community College; NYU School of Real Estate and Construction Technology				N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.):					
N/A					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	South and Central Wastewater Expansion Study, Hillsborough County, FL			Professional Services	Construction (If Applicable)
				2019	N/A
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
Constructability Reviewer and Cost Estimation Support. CDM Smith has been working closely with County planning and engineering, as well as the assistant County administrator and director level staff to validate County proposed solutions to provide water and wastewater utilities to a growing population. We assisted in feasibility analysis of developing pipeline routes, flow requirements, plant capacity requirements, and other strategies for addressing the County’s capacity needs. We leveraged our considerable knowledge to inform this project’s implications for Southern Hillsborough County. Mr. Solters provided construction insight into the proposed alternatives, including constructability reviews and cost estimation.					
b.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	Engineering and Construction Management Services for Tampa Bay Water Design-Build-Operate (DBO) Surface Water Treatment Plant Project, Tampa, FL			Professional Services	Construction (If Applicable)
				2004	2004
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
Senior Project Manager. Mr. Solters, as a construction project manager for Veolia Water North America, formerly US Filter, provided engineering and construction services for a \$144M, 66-mgd Surface WTP and Alkalinity Adjustment Facility in Hillsborough County. In addition to construction and design management, he provided operations coordination and client relations. For this \$87M DBO facility, he developed and maintained a \$6.3M positive cash flow position. CDM Smith was chief design partner and the engineer-of-record for the engineering and construction of the DBO surface water treatment project, as well as being in charge of all the permitting aspects of the project. CDM Smith coordinated and worked closely and successfully with all state and local regulators to ensure a smooth permitting transition from construction to operations. Mr. Solters worked closely with CDM Smith personnel and management at all levels and on every aspect of the project for over three years from the initial design through the start up and successful completion of the final acceptance test. CDM Smith was instrumental and indispensable in contributing to the projects and the team’s goal-oriented work ethic and worked closely with Mr. Solters and the project team to successfully resolve every challenge to maintain schedule and budget with no sacrifice of quality and performance. This project won the American Academy of Environmental Engineer’s Grand Award in Design in 2003.					
c.	(1) TITLE AND LOCATION (City and State)			(2) Year Completed	
	Arbennie Pritchett WRF Expansion, Okaloosa County, FL			Professional Services	Construction (If Applicable)
				2016	2016
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE			<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH		
Design-Build Project Manager. Mr. Solters provided design-build project management and construction services for the construction of a \$ 13.9M, 5-mgd wastewater reclamation facility and septage receiving facility expansion for Okaloosa County Water and Sewer Department in Fort Walton Beach, FL.					

# Resumes of Key Personnel Proposed for This Contract

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

12. NAME <b>Brendan V. Brown, PWS</b>		13. ROLE IN THIS CONTRACT Environmental Wetlands and Protected Species		14. TOTAL YEARS EXPERIENCE	
		a. TOTAL	15	b. WITH CURRENT FIRM	15
15. FIRM NAME AND LOCATION (City and State) CDM Smith – Orlando, FL					
16. EDUCATION (degree and specialization) MS – Biological Science; BS – Forest Environmental Resources			17. CURRENT PROFESSIONAL REGISTRATION (state and discipline) Professional Wetland Scientist (PWS); Florida Master Naturalist-Coastal Systems; Florida Master Naturalist-Coastal Restoration; 40-hour OSHA HAZWOPER; OSHA HAZWOPER; FAA Certified Drone Pilot		
18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.): Member, Society of Wetland Scientists					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State) <b>Pinellas Park Water Management District Projects, Pinellas Park, FL</b>		(2) Year Completed		
			Professional Services	Construction (If Applicable)	
			<b>Ongoing</b>	<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<b>Project Scientist.</b> The District is considered a Special District by the State of Florida and is tasked with managing the primary stormwater drainage system for a portion of central Pinellas County. Brendan evaluated state and federal permitting needs for project work including surface water ditch stabilization projects.					
b.	(1) TITLE AND LOCATION (City and State) <b>Small Unmanned Aircraft System (sUAS) Investigation and Wetlands and Waters of the US Delineation, Northwest WTP Expansion, St. Johns County, FL</b>		(2) Year Completed		
			Professional Services	Construction (If Applicable)	
			<b>2019</b>	<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<b>Environmental Scientist.</b> Brendan conducted a Waters of the US field delineation of wetlands and surface waters. He flagged the jurisdictional extents of state and federal wetlands. He prepared the state ERP and USACE 404 permit applications. He led the field team in conducting an aerial evaluation with sUAS to obtain high-resolution photographs of the site facilities and site wetlands.					
c.	(1) TITLE AND LOCATION (City and State) <b>Little Wekiva River/Lake Lotus Park Regional Stormwater Treatment Facility, Orange County, FL</b>		(2) Year Completed		
			Professional Services	Construction (If Applicable)	
			<b>2016</b>	<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<b>Project Scientist.</b> Brendan served as the project scientist for the preliminary feasibility of alternatives for a regional stormwater treatment facility in the Little Wekiva River basin to help address total maximum daily loads (TMDLs). He evaluated the presence and extents of state and federally jurisdictional wetlands. He also conducted a protected species evaluation. He assessed wetland quality and the potential for wetland rehydration.					
d.	(1) TITLE AND LOCATION (City and State) <b>Wetland Application System, City of Cocoa, FL</b>		(2) Year Completed		
			Professional Services	Construction (If Applicable)	
			<b>2016</b>	<b>N/A</b>	
(3) BRIEF DESCRIPTION (Brief Scope, Size, Cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> PERFORMED WITH CDM SMITH			
<b>Lead Environmental Scientist.</b> CDM Smith conducted a preliminary feasibility study to determine if a 166 acre parcel owned by the City is feasible for use as a wetland application system. Brendan led the team in analysis of environmental constraints, nutrient modeling analysis, and state and federal permitting constraints. He led the field team in evaluating wetland extents, state and federally protected species concerns, water quality sampling, and hydrological field investigations. He prepared the report documenting the findings.					



# TAB 4

## TEAM'S PREVIOUS EXPERIENCE/ PROFICIENCY IN SIMILAR PROJECTS/PROGRAMS

**Tab 4:**  
Team's Previous Experience/  
Proficiency in Similar  
Projects/Programs

## Tab 4: Team’s Previous Experience/Proficiency in Similar Projects/Programs

CDM Smith is a **LEADER** in providing as-needed service contracts with municipalities seeking broad based consulting expertise, providing the City with national expertise at the local level.

The table below showcases our teams experience on the ten selected projects with the range of services included in the scope of services. Full descriptions of the projects are included in the **SF 330 Section F** at the end of this section. We have also included **SF 330 Section G** at the end of this section to showcase projects where are team members have successfully delivered project to our clients together.

CDM Smith Project Experience															
Project Name	Design	Permitting	Construction	City of North Port Scope Items											
				Civil	Structural	Mechanical/Plumbing	Electrical/Instrumentation	Environmental	Geological	Potable Water, Wastewater, Reclaimed	Hydrogeological	Geotechnical	Mapping/Survey	Chemical	Ecological/Biological
Engineer-of-Record for Wastewater, City of Fort Myers, FL	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓			✓
Three Oaks Wastewater Treatment Plant Facility Upgrade, Lee County, FL	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓		✓
Wastewater Basin Program (Basin 101) Collier County, FL	✓	✓	✓						✓	✓					
Utilities Extension Project (UEP), North 2 Facilities Design and Construction, City of Cape Coral, FL	✓	✓	✓	✓	✓	✓	✓	✓		✓					
International Golf Parkway (IGP) Reclaimed Water to Palencia, St. Johns County, FL	✓	✓	✓	✓						✓		✓	✓		✓
Membrane Filtration Pretreatment Improvements, Pinellas County, FL	✓	✓								✓					
Electrical Master Plan and Procurement Assistance, City of Fort Myers, FL	✓	✓	✓			✓			✓			✓			
Replacement of Pump No. 7 at the High Service Pump Station (HSPS), Tampa Bay Water, FL	✓	✓	✓	✓	✓					✓					
Water Purification Technology Evaluation Project, JEA, Jacksonville, FL	✓	✓								✓	✓				
South County Advanced Wastewater Treatment Facility Capacity Re-Rate Study, Hillsborough County, FL		✓		✓	✓	✓			✓	✓				✓	✓

### Engineer-of-Record for Wastewater, City of Fort Myers, FL

- ✓ Water/Wastewater Engineering
- ✓ Construction Engineering and Inspection (CEI)
- ✓ Structures
- ✓ Wells
- ✓ Piping/Valves; Pumps/Motors/ Drives; Tanks/Clarifiers/Reactors; Odor Control; Chemical Systems; and Power Systems
- ✓ SCADA/Instrumentation



**Client Name**  
City of Fort Myers

**Completion Date**  
Ongoing

**Schedule and Budget Performance**  
Task orders have been completed on Schedule and Within Budget

**Team Members:**  
Jason Sciandra, Bryan Thaggard, Isaac Holowell

### Three Oaks Wastewater Treatment Plant Facility Upgrade, Lee County, FL

- ✓ Preliminary design, final design, permitting, and construction administration services for the upgrade of the Three Oaks WWTP to achieve a biological treatment capacity of 6 mgd ADF with considerations for future expansion to 8 mgd ADF
- ✓ Design included upgrades of the facility headworks, oxidation ditches, the aeration system, secondary clarifiers, disinfection system, belt filter presses, and the effluent disposal system



**Client Name**  
Lee County

**Completion Date**  
2018

**Schedule and Budget Performance**  
Completed on Schedule and Within Budget

**Team Members:**  
Jason Sciandra, Brian Karmasin, Isaac Holowell, Dewayne Wallace, Stephen Whiteside, Lee Wiseman, Carl Frizzell, Cindy Stellmack, Scott Whitmore, Jim Wittig, Michael Alford

### Wastewater Basin Program (Basin 101) Collier County, FL

- ✓ Evaluation included physical inspection of each CCPUD owned pump station, analysis of pump station run time data, flow monitoring for 13 pump stations (selected based on run time analysis), and physical inspection of select cast iron force mains via Broadband Electro- Magnetic (BEM) testing
- ✓ Eight design projects were part of the initial contract, they included interconnect gravity sewer sub-basins to improve emergency storage capacity, pump and piping replacements for all pump stations, replacement of an existing subaqueous force main crossing, development of a new force main as an alternate route for flow out of the basin, and replacement of existing gravity sewer and force mains on 14 streets adjacent to canals



**Client Name**  
Collier County

**Completion Date**  
Ongoing

**Schedule and Budget Performance**  
On Schedule and Within Budget

**Team Members:**  
Jason Sciandra, Craig Montgomery, Karen Lowe, Bryan Thaggard, Marc Stonehouse, Clay Tappan, Dewayne Wallace, Carl Frizzell, Cindy Stellmack, Kevin Francoforte, Michael Alford, Craig Gadberry

**Utilities Extension Project (UEP), North 2 Facilities Design and Construction, City of Cape Coral, FL**

- ✓ Design for construction of improvements and operations in residential areas
- ✓ VFDs in air-conditioned electrical rooms
- ✓ Backup generators
- ✓ Key team members involvement
- ✓ Hydraulic modeling, design, bidding services, and services during construction
- ✓ Design of 13 lift stations, two sanitary sewer master pump stations, and two surface water pump stations



**Client Name**  
City of Cape Coral

**Completion Date**  
Ongoing

**Schedule and Budget Performance**  
Design Completed On Schedule and Within Budget; Construction Currently On Schedule and Within Budget

**Team Members:**  
Jason Sciandra,  
Craig Montgomery,  
Clay Tappan, Michael Alford, Craig Gadberry, Isaac Holowell, Marc Stonehouse, Dewayne Wallace, Carl Frizzell, Cindy Stellmack, Scott Whitmore, Todd Stevenson, George Reilly, John Chandler

**International Golf Parkway (IGP) Reclaimed Water to Palencia, St. Johns County, FL**

- ✓ Design and provide engineering services during construction for approximately 14,000 lf of reuse main and 8,000 lf of force main
- ✓ Majority of construction (8,600 lf of 20” and 24” reclaimed; 6,300 lf of 20” force main) utilized horizontal directional drilling (HDD) technology
- ✓ Minimize traffic disruption and road restoration along the heavily traveled corridor
- ✓ Avoid impacts to the high voltage transmission lines and gas pipeline along the route



**Client Name**  
St. Johns County Utility Department

**Completion Date**  
2016

**Schedule and Budget Performance**  
Completed on Schedule and Within Budget

**Team Members:**  
Patrick Victor,  
Karen Lowe,  
Clay Tappan

**Membrane Filtration Pretreatment Improvements, Pinellas County, FL**

- ✔ Identified operational alternatives that could allow the County to resolve this issue while reducing or eliminating the need for a new clarifier
- ✔ Applied data analytics to review two years of clarifier and membrane pretreatment SCADA data, as well as nearly 5,000 routine jar tests to generate performance “heatmaps” of turbidity removal and membrane fouling rates versus alum dose.
- ✔ Cost saving measure to reduce clarifier area 75%, realizing over \$7M savings in capEX, testing ferric coagulant over alum for final design



**Client Name**  
Pinellas County

**Completion Date**  
Ongoing

**Schedule and Budget Performance**  
On Schedule and Within Budget

**Team Members:**  
Raj Vaidya, Craig Montgomery, Dave MacNevin, Jorge Arevalo, Michael Graham, Kevin Francoforte, Michael Alford

**Electrical Master Plan and Procurement Assistance, City of Fort Myers, FL**

- ✔ CDM Smith to perform an electrical evaluation of the AWWTFs and develop a prioritized list of capital improvement projects that included:
  - ✔ South AWWTF – Replace the following equipment: main switchboard, generator switchboard with a new main switchgear and replace nine (9) original motor control centers
  - ✔ Central AWWTF – Replace the main switchboard and generator switchboard with a new main switchgear and replace ten (10) original construction motor control centers



**Client Name**  
City of Fort Myers

**Completion Date**  
2019

**Schedule and Budget Performance**  
Completed on Schedule and Within Budget

**Team Members:**  
Craig Montgomery, Michael Graham, Jorge Arevalo, Clay Tappan, Scott Whitmore

**Replacement of Pump No. 7 at the High Service Pump Station (HSPS), Tampa Bay Water, FL**

- ✔ A precursor project to this in-line booster pump station
- ✔ New 2,000-hp pump in existing pump building
- ✔ Addition of new variable frequency drive (VFD) in existing electrical room
- ✔ Discharge piping and hydraulic cylinder activated ball valve
- ✔ Valve efficiency evaluation sizing valves based on long term operating cost savings
- ✔ Evaluations of existing HVAC systems based on increased cooling requirements



**Client Name**  
Tampa Bay Water

**Completion Date**  
2019 (Design)  
Construction Ongoing

**Schedule and Budget Performance**  
Design Completed on Schedule and Within Budget

**Team Members:**  
Raj Vaidya, Craig Montgomery, Carl Frizzell, Michael Graham, Michael Alford, Craig Gadberry

### Water Purification Technology Evaluation Project, Jacksonville, FL

- ✓ Research and Development (R&D) focused on the technical aspects of the treatment technologies and the initiation of public outreach and education efforts
- ✓ Two leading water purification technologies were evaluated; the first process train consisted of ultrafiltration, reverse osmosis, and advanced oxidation (referenced as UF-RO-AOP) while the second process train consisted of flocculation/sedimentation, ozone, biologically active filtration, and AOP (referenced as Ozone-BAF-AOP)
- ✓ Both systems were operated in parallel for approximately five months at each facility. The evaluation culminated in the selection of a single process train – UF-RO-AOP – for implementation in JEA's WPT program.



#### Client Name

JEA

#### Completion Date

2019

#### Schedule and Budget Performance

Completed on Schedule and Within Budget

#### Team Members:

Patrick Victor, Jorge Arevalo, Greg Wetterau



### South County Advanced Wastewater Treatment Facility, Hillsborough County, FL

- ✓ Performed a desktop hydraulic and process analysis to determine potential available treatment capacity
- ✓ Planning to identify, size, and prioritize improvements needed for incremental increases in capacity
- ✓ Cost estimating for proposed improvements
- ✓ Evaluated the County's service area needs for future growth planning and new service impacts
- ✓ Hydraulic modeling to calculate potential flow and plant capacity requirements
- ✓ Pipeline routing and flow monitoring data analysis



#### Client Name

Hillsborough County

#### Completion Date

Ongoing

#### Schedule and Budget Performance

Currently on Schedule and Within Budget

#### Team Members:

Craig Montgomery, Michael Graham, Jorge Arevalo, Clay Tappan, Scott Whitemore



21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Engineer-of-Record for Wastewater, Fort Myers, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	Ongoing	N/A

23. PROJECT OWNER’S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Myers	Heath Laufenberg; Interim WW Superintendent	239.321.7574
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)		PROJECT COST: Total \$3.6 M

CDM Smith was retained to provide miscellaneous engineering study, design, CEI, and consulting services as authorized under various work order assignments at the City’s 11-mgd Central AWWTF and 12-mgd South AWWTF. The contract has included more than 40 work order assignments each with a study value of under \$200,000 or a construction value under \$2,000,000 for design work. Relevant work assignments have included:

- Permitting of the facilities with SFWMD, FDEP, Building Department
- Engineering bond report
- Development of a computerized maintenance management system
- Regulatory compliance reporting
- Laboratory evaluation
- Design and CEI for numerous small structural, facility, electrical, HVAC, piping, and equipment projects



Details of a few of the larger assignments are provided below.

**Biosolids Dewatering Alternatives Evaluation and Pilot Study**

CDM Smith performed a biosolids dewatering alternatives evaluation and pilot study that evaluated modern belt filter presses, centrifuges, or screw presses to replace the existing equipment. The three dewatering technologies were evaluated on a present worth cost basis that included hauling, disposal, power, polymer, and labor as well as non-cost factors such as operability and construction considerations. Conceptual designs for the replacement of the dewatering equipment and ancillary components were prepared for each alternative. An on-site pilot study was conducted at the South AWWTF to further define the expected performance of each of the dewatering technologies. Present worth cost estimates were developed to provide a side-by-side comparison of the life-cycle costs of each dewatering alternative. Based on the final ranking of alternatives, centrifuges were recommended for the AWWTFs.

**South and Central AWWTF Structural Design**

CDM Smith completed a structural facility evaluation of the South and Central AWWTFs in August 2013 and provided a report summarizing recommended repairs. The top priority repairs at each facility were identified as those for the clarifiers and screen and grit buildings. The City then authorized CDM Smith to develop plans and specifications for the repairs to these facilities at each AWWTF. In addition to the structural repairs, CDM Smith was retained to design a repair and bypass for the Lee County Utilities (LCU) influent line at the City of Fort Myers Central AWWTF to allow for removal and replacement of a corroded section downstream. The plans and specifications for the repairs were developed to minimize impacts to ongoing plant operations and require the Contractor to provide necessary bypass infrastructure. CDM Smith assisted the City with procurement of the Contractor and provided construction phase engineering services.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
A. CDM Smith	A. Fort Myers, FL	A. Prime

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Three Oaks Wastewater Treatment Plant Facility Upgrade, Lee County, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2018	2018

23. PROJECT OWNER’S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Lee County Utilities	Lyssa Lott; Public Works Project Manager	239.533.8149
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)		PROJECT COST: \$31.5M

CDM Smith provided preliminary design, final design, permitting, and construction administration services for the upgrade of the Three Oaks WWTP to achieve a biological treatment capacity of 6 mgd ADF with considerations for future expansion to 8 mgd ADF. The major components for the design improvements included: modifying the existing headworks to provide flow distribution to the new and future oxidation ditch; adding 30-horsepower brush aerators to Oxidation Ditches 1 and 2; modifying the existing secondary clarifier flow splitter box to accommodate a third secondary clarifier; installation of a new 1.5-MG oxidation ditch rated at an ADF capacity of 2 mgd, with three 75-horsepower surface aerators; installation of two 85-foot diameter secondary clarifiers with return activated sludge (RAS) and waste activated sludge (WAS) pumping capabilities; addition of a new belt filter press feed pump, new polymer feed and storage system, new belt filter press, and a shaftless screw conveyor to convey sludge to the existing truck loading station; replacement of the existing sodium hypochlorite storage tanks and canopy; new administration building to house new offices, a new laboratory, conference rooms, and restrooms; a new electrical building to house new motor control centers; demolition of the existing peripheral feed clarifiers and mothballed treatment facilities located on the south side of the site; site work including paving, grading, and stormwater conveyance; yard piping; and an electrical and automation upgrade.



to accommodate a third secondary clarifier; installation of a new 1.5-MG oxidation ditch rated at an ADF capacity of 2 mgd, with three 75-horsepower surface aerators; installation of two 85-foot diameter secondary clarifiers with return activated sludge (RAS) and waste activated sludge (WAS) pumping capabilities; addition of a new belt filter press feed pump, new polymer feed and storage system, new belt filter press, and a shaftless screw conveyor to convey sludge to the existing truck loading station; replacement of the existing sodium hypochlorite storage tanks and canopy; new administration building to house new offices, a new laboratory, conference rooms, and restrooms; a new electrical building to house new motor control centers; demolition of the existing peripheral feed clarifiers and mothballed treatment facilities located on the south side of the site; site work including paving, grading, and stormwater conveyance; yard piping; and an electrical and automation upgrade.

During construction, we worked in collaboration with the construction manager at risk, to implement this Project. This included weekly team meetings and owner review on a vast majority of shop drawing submittals. CDM Smith developed a cost-effective plan for the upgrade and expansion of the Three Oaks WWTP, which included a detailed operations plan during construction to ensure minimal impact on the operation of the facility. In addition, CDM Smith recommended an interim plan to add additional aeration capacity at the plant during the time that it was being upgraded in order for the plant to handle seasonal peak flows.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
A. CDM Smith	A. Fort Myers, FL	A. Prime
B. CDM Smith	B. Orlando, FL	B. Support Services
C. CDM Smith	C. Raleigh, NC	C. Support Services
D. CDM Smith	D. Knoxville, TN	D. Support Services

21. TITLE AND LOCATION (CITY AND STATE)		22. YEAR COMPLETED	
Wastewater Basin Program (Basin 101) Collier County, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		Ongoing	N/A

23. PROJECT OWNER’S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
Collier County	Craig Pajer; Principal Project Manager	239.252.2554	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			PROJECT COST:
			\$4.5M

Collier County Public Utilities Division (CCPUD) provides wastewater collection service to residents throughout unincorporated Collier County. One geographic area within CCPUD’s service is Naples Park, which is known as Basin 101 was one of the first wastewater collection areas developed and served by CCPUD. A majority of the system was originally constructed in the mid-1970s with additional pump stations and gravity collection pipelines being added over time. Today, Basin 101 consists of 20 County pump stations and several private pump stations. As part of CCPUD’s preventative maintenance program, CDM Smith was hired to perform an evaluation of Basin 101. The evaluation included physical inspection of each CCPUD owned pump station, analysis of pump station run time data, flow monitoring for 13 pump stations (selected based on run time analysis), and physical inspection of select cast iron force mains via Broadband Electro-Magnetic (BEM) testing.



One of the findings of the evaluation was that during some wet-weather events, many of the pumping stations within Basin 101 have extended pump run times and often some pump stations even require direct operations intervention, such as utilizing trailer-mounted pumping units. Another finding was that the flows within Basin 101 could be generally categorized as falling within one of two distinct sub-basins.

Given CCPUD’s dedication to preventing sanitary sewer overflows (SSOs) while minimizing impacts to the public, CDM Smith was given the task of evaluating the best option for improving the functioning of each pump station as well as the basin as a whole. As with many collection systems developed over time, multiple inefficiencies were identified within the system. We worked with CCPUD to developed six potential improvements scenarios which would improve pumping capacities such that all pump stations were equipped with pumps capable of keeping up with peak weather flows, minimize the construction of new facilities (new master pump stations) both from a capital cost consideration and for construction impacts, minimize the number of pump stations that require new pumps, electrical systems, etc., in order to minimize impact of construction and bypass pumping operations on local residents and traffic (many stations are closely located to residences and/or right of ways), and provide for an alternate route for flows out of Basin 101. For each scenario identified, we performed hydraulic modeling to determine the required pump improvements, master pump station improvements, and conveyance improvements.

In addition to the evaluation of the overall wastewater basin, CDM Smith was contracted to perform eight design projects within the initial contract. These projects included interconnect gravity sewer sub-basins to improve emergency storage capacity, pump and piping replacements for all pump stations, replacement of an existing subaqueous force main crossing, development of a new force main as an alternate route for flow out of the basin, and replacement of existing gravity sewer and force mains on 14 streets adjacent to canals. We are currently in negotiations with the CCPUD to provide design services for six additional projects identified for improvement of the wastewater basin, as well as construction phase services for all of the design projects.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
A. CDM Smith	A. Fort Myers, FL	A. Prime
B. CDM Smith	B. Orlando, FL	B. Support Services
C. CDM Smith	C. Knoxville, TN	C. Support Services
D. CDM Smith	D. Tampa, FL	D. Support Services
E. CDM Smith	E. Sarasota, FL	E. Support Services

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Utilities Extension Project (UEP), North 2 Facilities Design and Construction, Cape Coral, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2017	Ongoing

23. PROJECT OWNER’S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Cape Coral	Kevin L. Higginson, PE; Utilities Extension Manager	239.574.0706
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)		PROJECT COST: \$7.4M

Our team performed hydraulic analyses for design of thirteen new sanitary lift stations, two wastewater master pump stations, and 25 miles of force mains to transmit the wastewater collected in the project area to the City’s existing water reclamation facilities. We also designed 12 sanitary lift stations, master pump stations, and two surface water pump stations for irrigation purposes, and are providing construction phase and CEI services.



**Hydraulic Modeling:** CDM Smith used the existing City water and sewer hydraulic models to develop the preliminary design of the new potable water and wastewater system and evaluate alternatives for the project. Our team also modified and updated the existing models, as needed, to implement changes that occurred since the last model updates, and to allocate new water demands and sewer flows for the project area. We used the updated models to simulate and confirm required pipe sizes, check system pressures and velocities, and determine how the new flows would affect the existing system.

**Canal Pump Stations:** We provided design and permitting services for two new canal pump stations (CPS) that included four vertical turbine pumps with a total capacity of 20,000 gpm; a canal intake structure and screens; automatic backwash strainers; a sodium hypochlorite feed system; and backup generator inside the pump station building.

**Master Pump Stations:** CDM Smith performed project design and permitting services for two new wastewater master pump stations (MPS) including three submersible pumps with a firm capacity 3.5 mgd; an approximately 30-foot deep wet well with separate valve and meter vaults; a backup generator inside the pump station building; and a bioscrubber for odor control.

**Neighborhood Lift Stations:** CDM Smith provided the design plans for 12 neighborhood duplex lift stations, which were designed to follow the City standards and specifications. As needed, we worked with the City to make revisions to their design standards to meet current codes and permit requirements. The stations ranged from 5 to 30 HP with design flows of 200 to 700 gpm.

During the construction phase, CDM Smith is providing engineering services during construction for the facilities we designed. In addition, we are providing CEI services for five of the water/sewer/irrigation contracts to extend water, sewer, and irrigation utilities to approximately 4 square-miles of the City of Cape Coral.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
A. CDM Smith	A. Fort Myers, FL	A. Prime
B. CDM Smith	B. Tampa, FL	B. Support Services
C. CDM Smith	C. Orlando, FL	C. Support Services

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
International Golf Parkway (IGP) Reclaimed Water to Palencia, St. Johns County, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2016	2016

23. PROJECT OWNER’S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
St. Johns County	James Overton; Project Engineer	904.209.2614
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)		PROJECT COST:
		Design \$631,000 Const. \$3.95M

SJCUD sought to expand their reclaimed water distribution system due to continued new development within the St. Augustine area. CDM Smith was contracted to design and provide engineering services during construction for approximately 14,000 lf of reuse main and 8,000 lf of force main along International Golf Parkway (IGP). To realize potential cost savings and prepare for future service demands, approximately 7,800 lf of parallel force main was also added to the project. Additionally, the project was selected by SJRWMD to receive cost-share funding equal to one-third of the construction cost for alternative water supply development.



The majority of construction (8,600 lf of 20” and 24” reclaimed; 6,300 lf of 20” force main) utilized horizontal directional drilling (HDD) technology. Drivers for HDD selection included the following:

- Minimize traffic disruption and road restoration along the heavily traveled corridor.
- Avoid impacts to the high voltage transmission lines and gas pipeline along the route.
- Allow for a permittable and cost effective crossing under I-95.

For the crossing of I-95, options evaluated included micro tunneling, HDD, and placement along an overpass. HDD was selected and included monitoring for potential subsidence and mitigation of impacts to the Florida Department of Transportation (FDOT) interstate. Construction was completed in August 2016.

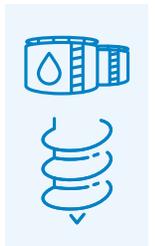
In total, this project involved:

- 2.3 miles of Reclaimed Water Pipe Installed
- 2.3 miles of Large Diameter Pressure Main
- List Size and Length of Each Pipe:
  - 6,000 ft, 24” HDPE DR11 - HDD
  - 2,000 ft, 20” HDPE DR11 - HDD
  - 1,500 ft, 20” PVC - open cut
  - 2,600 ft, 16” PVC - open cut
- 13 # of Air Release Valves
- 10 # of Butterfly Valves
- Replaced/Installed 7,800 linear feet Force Main
  - 6,300 ft, 20” HDPE DR9 - HDD
  - 1,500 ft, 16” PVC - open cut
  - 8 Air Release Valves
  - 5 Plug Valves
- Re-sodded 21,000 square yards all Disturbed Grassed Areas

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
A. CDM Smith	A. Jacksonville, FL	A. Prime
B. CDM Smith	B. Tampa, FL	B. Support Services

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Membrane Filtration Pretreatment Improvements, Pinellas County, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	Ongoing	N/A

23. PROJECT OWNER’S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Pinellas County	Catherine Nguyen; Project Manager	727.464.7525
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)		PROJECT COST: \$880,000



The 2.5-mgd industrial water treatment plant (IWTP) located at Pinellas County’s Bridgeway Acres Landfill (BWA) utilizes alum clarification, microfiltration (MF), and reverse osmosis (RO) to treat pond water for use by the Waste-to-Energy (WTE) facility on site. However, performance constraints with the existing solids contact clarifier system have restricted the IWTP MF system from attaining its full design production capacity, resulting in issuance of a Consent Order (CO) requiring the facility attain its full capacity in fewer than 24 months. Pinellas County retained CDM Smith to identify a solution to help the County comply with the CO.

Reviewing existing performance data from the IWTP over the last six years, high effluent turbidity carryover events from the solids contact clarifier have been reported as one of the leading factors contributing to fouling of the MF membranes. Our team identified operational alternatives that could allow the County to resolve this issue while reducing or eliminating the need for a new clarifier.

1. We applied data analytics to review two years of clarifier and membrane pretreatment SCADA data, as well as nearly 5,000 routine jar tests to generate performance “heatmaps” of turbidity removal and membrane fouling rates versus alum dose. Our analysis demonstrated that a 33% lower alum dose without caustic soda addition would improve turbidity removal and lower chemical costs.

2. We also provided a critical review of jar tests by another consultant, identifying a costly error in the jar test settling time assumption used by operators and other design engineers. Our team’s review showed that by switching the coagulant chemical from alum to ferric sulfate, the County could restore the plant to full capacity, saving \$7.3M in construction costs to build a new clarifier and complying with the CO deadline 12 months ahead of schedule.

CDM Smith is now working with the County to conduct a full-scale pilot of coagulation using ferric sulfate. Our team is also providing automation design for incorporating the new treatment train into the IWTP’s existing SCADA system, in addition to monitoring a chemical pilot test through the existing SCADA system.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
A. CDM Smith	A. Tampa, FL	A. Prime
B. CDM Smith	B. Orlando, FL	B. Engineering Support

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Electrical Master Plan and Procurement Assistance, Fort Myers, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2019	N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Myers	Heath Laufenberg; Interim Wastewater Superintendent	239.321.7574
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)		PROJECT COST: \$1.3M

The City contracted with CDM Smith to perform an electrical evaluation of the AWWTFs and develop a prioritized list of capital improvement projects. The results of our evaluation were summarized in the Electrical Engineering Assessment and Recommended Improvements Report submitted in December 2013. Following the report, we were retained to prepare the preliminary design report for the improvements, to assist the City in procuring a design firm for the improvements, overseeing and reviewing the design, assisting in procurement of a construction manager at risk and owner representation including full-time inspection services during construction.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
A. CDM Smith	A. Fort Myers, FL	A. Prime
B. CDM Smith	B. Orlando, FL	B. Support Services

21. TITLE AND LOCATION (CITY AND STATE)		22. YEAR COMPLETED	
Replacement of Pump No. 7 at the High Service Pump Station (HSPS), Tampa Bay, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2019	Ongoing

23. PROJECT OWNER’S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
Tampa Bay Water	Richard Menzies, PE	727.796.2355 ext 2381	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			PROJECT COST:
			\$331,400

As Tampa Bay Water’s service area continues to experience growth, the Agency identified the need to increase capacity at its Regional Facility Site (RFS) High Service Pump Station (HSPS). CDM Smith was retained under our as-needed services contract to provide design, bidding, and construction phase services to complete modifications to the HSPS at the WTP, which included six 2,000-hp pumps powered through variable frequency drives (VFDs) and one 600-hp horizontal split case pump.



Our team designed the following modifications:

- Replacement of the existing 600-hp Pump No. 7 with a new 2,000-hp pump to match existing Pump Nos. 1 – 6.
- Replacement of discharge piping and valves.
- Power distribution system modifications to support the addition of one new medium voltage VFD and new 2,000-hp pump.
- Addition of branch circuits and power connections from new VFD to the existing 13.2kV Switchgear.
- Short circuit and load flow analysis for the addition of a new pump and VFD.
- Miscellaneous electrical system improvements as required for the installation of the new pump system and VFD.
- Removal and replacement of existing motor control circuits and motor protective device wiring.
- Control system modifications and addition of new I&C wiring and conduits needed to integrate the new pump into the existing HSPS PLC and HMI control system.

We also evaluated the existing HVAC systems based on the increased cooling requirements associated with the new pump and VFD. As part of the design, we ensured project compliance with SWFWMD funding requirements. The design was successfully delivered on schedule and within budget and successfully bid, and construction is currently underway.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
A. CDM Smith	A. Tampa, FL	A. Prime
B. CDM Smith	B. Orlando, FL	B. Engineering Support

21. TITLE AND LOCATION (CITY AND STATE)		22. YEAR COMPLETED	
Water Purification Technology Evaluation Project, Jacksonville, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
		2019	N/A

23. PROJECT OWNER’S INFORMATION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER	
JEA	Ryan Popko, PE; Project Manager	904.665.8516	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)			PROJECT COST:
			\$2.4M

The primary objective of the R&D testing was to evaluate and compare WPT options for the purification of secondary clarified effluent by concurrently operating two process trains at the Southwest and Buckman WRFs. These two WRFs were specifically chosen because they have significantly different water quality – Southwest WRF has a primarily residential customer base, while Buckman WRF receives a significant industrial component, including landfill leachate.



This project advances science through testing two leading technologies side by side. The membrane-based treatment approach (UF-RO-AOP) is the most widely-used water purification technology throughout the United States and globally. However, due to the relatively low total dissolved solids content (salinity) of the WPT source water used for this study, this provided the opportunity to evaluate an alternative water purification process: Ozone-BAF-AOP. This type of system presents a potentially lower capital and O&M cost and does not require the disposal of waste brine produced by RO treatment.

Prior to commencement of testing at each WRF, CDM Smith’s internally-funded R&D group focused on supporting the field work associated with the operation and optimization of the Ozone-BAF treatment system. To this end, CDM Smith conducted a series of bench-scale studies to determine critical operating parameters for the Ozone-BAF process train including: coagulant dose, polymer dose, coagulation pH, and ozone to total organic carbon (TOC) ratio. Ozone demand, ozone decay, and disinfection by-product formation were also evaluated. Bench-scale studies were conducted on secondary effluent (prior to ultraviolet light and chlorine disinfection) collected from the Southwest and Buckman WRFs. While not identified as a site for field testing, CDM Smith also conducted bench-scale studies on secondary effluent collected from the Arlington East WRF. This allowed JEA and CDM Smith to gain insight regarding the quality and treatability of the effluent that will most likely be utilized in large-scale future evaluations. All bench-scale testing was completed at the CDM Smith Research and Testing Laboratory in Bellevue, Washington.

Data collected throughout the R&D testing project was utilized to compare the performance of each process train, to identify appropriate design criteria and operational parameters for use in subsequent phases, and to develop estimated capital and O&M costs for each process system. This information was used to select the best water purification process for JEA to implement in the WPT program – UF-RO-AOP.

Results obtained through CDM Smith internal R&D testing provided valuable information for the operation and optimization of the Ozone-BAF process train and DBP formation potential. These results, along with results from R&D testing, helped JEA identify key operating parameters that influence design considerations and O&M costs for future water purification facilities.

Operation of the R&D equipment at the Southwest WRF concluded in March 2018 and operation of the R&D equipment at the Buckman WRF concluded in October 2018. Ultimately, the UF-RO-AOP process was selected for JEA because it demonstrated a low sensitivity to changes in source water quality while maintaining excellent removal efficiencies and met all established water quality goals.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
A. CDM Smith	A. Jacksonville, FL	A. Prime
B. CDM Smith	B. Tampa, FL	B. Support Services
C. CDM Smith	C. Orlando, FL	C. Support Services
D. CDM Smith	D. Rancho Cucamonga, CA	D. Support Services

21. TITLE AND LOCATION (CITY AND STATE)	22. YEAR COMPLETED	
Reverse Osmosis Water Treatment Plant No. 1 Expansion, City of Clearwater, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
	2016	2016

23. PROJECT OWNER’S INFORMATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Clearwater	Glenn Daniel; Water Manager	727.562.4960 ext. 7249
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)		PROJECT COST: \$9.5M

City selected CDM Smith to provide design services related to the expansion of its Reverse Osmosis (RO) Water Treatment Plant (WTP) No.1. The goals of the expansion were to increase the production capacity of the WTP by 1.5 mgd (1.0 mgd of RO permeate and 0.5 mgd of finished blend water) and the storage capacity by 1.0 mgd—for total production capacity of 4.5 mgd and finished water storage of 6.0 mgd. CDM Smith evaluated the existing RO WTP to confirm conditions prior to design and identify additional improvements that may be necessary; prepared a preliminary design for the expansion and pipelines; through a subconsultant, provided geotechnical and survey; provided detailed design services and bid documents for the expansion and pipelines; prepared applications and assisted with environmental and right-of-way permitting; attended and assisted with public meetings; and provided assistance during the bidding process.



CDM Smith prepared an initial evaluation of the WTP and provided a list of potential improvements ranging from general facility hardening to innovative process enhancements to save capital costs. Most notably, we performed membrane pilot studies to demonstrate that newer, higher square footage elements operated at a higher flux through existing pressure vessels could provide the desired amount of permeate without the purchase of a new RO skid and building expansion. This alternative saved the city approximately \$1M in capital cost. Following conclusion of the pilot studies, CDM Smith designed a cost-effective treatment process which uses a split-treatment process; one treatment process for the blended water and one treatment process for LPRO permeate. The blended water treatment process focused on arsenic removal and consists of pre-chlorination followed by solid media adsorption. The LPRO permeate treatment process focuses on the removal of total dissolved solids, including arsenic, and consists of pre-chlorination, pressure filtration, scale inhibition, dechlorination, cartridge filtration, and LPRO membrane treatment. The proposed split-treatment process improves and enhances operations while increasing the treatment capacity of the WTP.

CDM Smith also prepared separate construction documents, permitting, and bidding services for two new pipelines to convey concentrate and filter backwash to a future plant site for additional treatment and disposal, respectively. The pipelines were 8- and 6-inches in diameter and their routes were over two miles in length. Both pipelines were designed to be installed using horizontal directional drilling techniques over the entire length.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
A. CDM Smith	A. Tampa, FL	A. Prime
B. CDM Smith	B. Sarasota, FL	B. Engineering Support
C. CDM Smith	C. Orlando, FL	C. Engineering Support

# Key Personnel Participation in Example Projects

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

26. NAMES OF KEY PERSONNEL (FROM SECTION E, BLOCK 12)	27. ROLE IN THIS CONTRACT (FROM SECTION E, BLOCK 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (FILL IN "EXAMPLE PROJECTS KEY" SECTION BELOW BEFORE COMPLETING TABLE.)										
		1	2	3	4	5	6	7	8	9	10	
Patrick R. Victor, PE, DWRE	Contract Manager					✓					✓	
Jason A. Sciandra, PE	Principal-In-Charge	✓	✓	✓	✓			✓				
Rajendra (Raj) D. Vaidya, PhD, PE, PMP, BCEE	Project Manager						✓		✓			
Craig C. Montgomery, PE	Quality Control/Technical Reviews			✓	✓		✓		✓			
Stewart J. Magenheimer, PG, PMP	Quality Control/Technical Reviews											
Brian M. Karmasin, PE, BCEE	Water, Wastewater, Reclaimed Water Treatment and Storage Systems; Water, Wastewater, and Reclaimed Water Planning		✓									
David MacNevin, PhD, PE, LEED AP	Water, Wastewater, Reclaimed Water Treatment and Storage Systems						✓					
Jorge M. Arevalo, PhD, PE	Water, Wastewater, Reclaimed Water Treatment and Storage Systems						✓			✓	✓	
Karen R. Lowe, PE, PMP	Water, Wastewater, Reclaimed Water Treatment and Storage Systems			✓		✓						
Blake E. Harvey	Water, Wastewater, Reclaimed Water Treatment and Storage Systems											
Sirwan Alimoradi, PhD, PE*	Water, Wastewater, Reclaimed Water Treatment and Storage Systems											
Gregory D. Wetterau, PE*, BCEE	Water, Wastewater, Reclaimed Water Treatment and Storage Systems										✓	
Gregory T. Isaacs, PE	Water, Wastewater, Reclaimed Water Treatment and Storage Systems	✓	✓									

29. EXAMPLE PROJECTS KEY			
NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Engineer-of-Record for Wastewater, City of Fort Myers, FL	6	Membrane Filtration Pretreatment Improvements, Pinellas County, FL
2	Three Oaks Wastewater Treatment Plant Facility Upgrade, Lee County, FL	7	Electrical Master Plan and Procurement Assistance, City of Fort Myers, FL
3	Wastewater Basin Program (Basin 101) Collier County, FL	8	Replacement of Pump No. 7 at the High Service Pump Station (HSPS), Tampa Bay Water, FL
4	Utilities Extension Project (UEP), North 2 Facilities Design and Construction, City of Cape Coral, FL	9	Water Purification Technology Evaluation Project, JEA, Jacksonville, FL
5	International Golf Parkway (IGP) Reclaimed Water to Palencia, St. Johns County, FL	10	Reverse Osmosis Water Treatment Plant No. 1 Expansion, City of Clearwater, FL

# Key Personnel Participation in Example Projects

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

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		1	2	3	4	5	6	7	8	9	10
Travis Meyer, PE*	Water, Wastewater, Reclaimed Water Treatment and Storage Systems										
Charles B. Thaggard, PE	Water, Wastewater, Reclaimed Water Treatment and Storage Systems; Stormwater/Civil Site	✓		✓							
Isaac D. Holowell, PE	Water, Wastewater, and Reclaimed Water Conveyance Systems; Water, Wastewater, and Reclaimed Water Planning	✓	✓	✓	✓						
Marc C. Stonehouse, PE	Water, Wastewater, and Reclaimed Water Conveyance Systems			✓	✓						
Clay M. Tappan, PE, BCEE	Water, Wastewater, and Reclaimed Water Conveyance Systems			✓							✓
Dewayne C. Wallace	Water, Wastewater, and Reclaimed Water Conveyance Systems		✓	✓	✓						
Lee P. Wiseman, PE, BCEE	Water, Wastewater, and Reclaimed Water Planning		✓								✓
Carl S. Frizzell, PhD, PE	Water, Wastewater, and Reclaimed Water Planning		✓	✓	✓					✓	
Vipin Pangasa, PE, PMP, BCEE	Water, Wastewater, and Reclaimed Water Planning						✓				
David J. Prah, PE, BCEE	Water, Wastewater, and Reclaimed Water Planning										✓
Michael J. Graham, PE	Electrical and Instrumentation/Controls		✓				✓		✓		
Cynthia L. Stellmack, PE	Electrical and Instrumentation/Controls		✓	✓	✓			✓			
W. Scott Whitmore, PE	Electrical and Instrumentation/Controls		✓		✓						✓
Thomas W. Nichols	Geotechnical						✓				
Stephen L. Whiteside, PE	Geotechnical		✓								
James T. Wittig, PE	Stormwater/Civil Site		✓								

29. EXAMPLE PROJECTS KEY			
NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Engineer-of-Record for Wastewater, City of Fort Myers, FL	6	Membrane Filtration Pretreatment Improvements, Pinellas County, FL
2	Three Oaks Wastewater Treatment Plant Facility Upgrade, Lee County, FL	7	Electrical Master Plan and Procurement Assistance, City of Fort Myers, FL
3	Wastewater Basin Program (Basin 101) Collier County, FL	8	Replacement of Pump No. 7 at the High Service Pump Station (HSPS), Tampa Bay Water, FL
4	Utilities Extension Project (UEP), North 2 Facilities Design and Construction, City of Cape Coral, FL	9	Water Purification Technology Evaluation Project, JEA, Jacksonville, FL
5	International Golf Parkway (IGP) Reclaimed Water to Palencia, St. Johns County, FL	10	Reverse Osmosis Water Treatment Plant No. 1 Expansion, City of Clearwater, FL

# Key Personnel Participation in Example Projects

## PART I – CONTRACT-SPECIFIC QUALIFICATIONS

26. NAMES OF KEY PERSONNEL (FROM SECTION E, BLOCK 12)	27. ROLE IN THIS CONTRACT (FROM SECTION E, BLOCK 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (FILL IN "EXAMPLE PROJECTS KEY" SECTION BELOW BEFORE COMPLETING TABLE.)									
		1	2	3	4	5	6	7	8	9	10
Michael T. Alford, AIA, LEED® AP BD+C	Architectural		✓	✓			✓		✓	✓	
Andrew J. Baranowski, GISP	Mapping, Survey and SUE										
Kevin M. Francoforte, PE	Structural			✓			✓				
Diane C. Kemp	Financial Assistance										
Craig A. Gadberry, PE	Alternative Project Delivery and Cost-Estimating			✓	✓		✓		✓	✓	
Stephen M. Solters	Alternative Project Delivery and Cost-Estimating										
W. Todd Stevenson	Construction Administration				✓						
George E. Reilly, PE	Construction Administration				✓						
John S. Chandler	Construction Administration				✓						
Brendan V. Brown, PWS	Environmental Wetlands and Protected Species										

29. EXAMPLE PROJECTS KEY			
NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Engineer-of-Record for Wastewater, City of Fort Myers, FL	6	Membrane Filtration Pretreatment Improvements, Pinellas County, FL
2	Three Oaks Wastewater Treatment Plant Facility Upgrade, Lee County, FL	7	Electrical Master Plan and Procurement Assistance, City of Fort Myers, FL
3	Wastewater Basin Program (Basin 101) Collier County, FL	8	Replacement of Pump No. 7 at the High Service Pump Station (HSPS), Tampa Bay Water, FL
4	Utilities Extension Project (UEP), North 2 Facilities Design and Construction, City of Cape Coral, FL	9	Water Purification Technology Evaluation Project, JEA, Jacksonville, FL
5	International Golf Parkway (IGP) Reclaimed Water to Palencia, St. Johns County, FL	10	Reverse Osmosis Water Treatment Plant No. 1 Expansion, City of Clearwater, FL



TAB  
5

MANAGEMENT  
APPROACH/PROJECT  
CONTROL

## Tab 5: Management Approach/Project Control

The City will benefit from our proven history of delivering projects **ON SCHEDULE** and **WITHIN BUDGET** at no sacrifice to quality and responsiveness.

CDM Smith has demonstrated through successful implementation of projects throughout Southwest Florida (and specifically for North Port) that consistently meeting our commitments for submittal of deliverables on schedule is critical to project success. Managing and controlling information is key for project managers and owners. Our effective project control systems are uniform, scalable, consistent, and integrated, providing a routine method of producing and controlling information for progress reporting, scheduling, budgeting, accounting, and all other project functions. Our proven capabilities in project management and adherence to time and budget constraints within the last five years can be shown by our successful projects we have completed for the City under our current library of services contract.

Project Name	Percent Below Budget
NP DIW #2 Permit Renewal	0%
Wellfield Comprehensive Hydrogeology	7%
Reclaimed Water Expansion-Ph 4	11%
2017 Water Transmission Expansion	14%
2017 Inflow & Infiltration	58%
2017 Lift Station Rehabilitation	8%
MCWTP RO Production Capacity	29%
Wastewater Hydraulic Model Development	10%

On the projects, CDM Smith has completed under the current library of services we have delivered the scope on average 17% below budget.

Beginning in 2018, CDM Smith completely revamped our Project Management and Delivery process to meet client expectations and incorporate technological and business tools to assist project managers in delivering projects on time and within budget. The program also integrated CDM Smith's well-established Quality Management System (QMS) as an integral part of our Delivery Process. Described below are several key components of how CDM Smith's Project and Quality Management strive for excellence in project management. Our firm team's extensive experience managing projects of this nature has shown that the key to successfully meeting schedule and budget is to utilize a disciplined project planning approach.

### Managing Your Projects

Our unwavering commitment to **QUALITY** will save the City time and budget now and in the future, and will deliver superior projects.

We know that City staff has competing demands for their time and must rely on the consultant to produce deliverables that meet or exceed their quality expectations. Quality is the foundation of CDM Smith's firm-wide vision and is embraced throughout our organization. CDM Smith is fully committed to delivering superior projects to the City which all start with quality checks by team members performing the work and undergo further reviews from our independent quality assurance/quality control (QA/QC) leads. Our assigned project manager, **Rajendra (Raj) D. Vaidya, PhD, PE, PMP, BCEE**, will lead the team with his proven record of quality and excellence and will be supported by senior staff, who will perform quality reviews at every step of the design project development process.

## Quality Management System



### Plan Quality

CDM Smith's quality processes will begin early in the lifecycle of any projects will be tailored to the City's scope of work to meet the project requirements and our quality management system.

### Quality Assurance

CDM Smith's QA process will focus on prevention and reduction of errors and omissions, conformance to standards and expectations, open-mindedness for innovation and creativity, monitoring and controlling quality checks and milestones, and providing value enhancement.



### Quality Control

CDM Smith's QC processes will continuously monitor quality through every phase of the project lifecycle, controlling the quality of our deliverables through quality checks and milestones to ensure they align with the City's needs and expectations.

Assigned to Dr. Vaidya is a team of specialists specifically chosen for the utility engineering services contract. Key considerations in the selection process were proximity to the City, technical expertise, and diversity in years of experience for cost of service efficiency. The majority of the key staff assigned to this contract are located in our Fort Myers, Sarasota, Tampa, and Orlando offices.

Quality is achieved through the efforts of skilled professionals, effectively applying their judgment and experience, following our deliberate program of QA/QC. Work performed by CDM Smith under this contract will be conducted using our thorough, proven Quality Management Process (QMP). QMP is the essential foundation for the execution of any CDM Smith project, and it consists of three parts: plan quality, QA and QC.

**Effectively Assisting and Developing Your Projects**

**We have the technical and managerial leadership to meet the City’s goals and objectives and are dedicated to working collaboratively with the City to ensure CONTROL OF SCOPE and the successful delivery of your projects.**

Our approach to providing services under this contract is based on the fundamental tenet of exceptional client service that drives our professionals to provide efficient, effective, and high-quality services. Our team provides depth of resources and a complete line-up of disciplines all in-house under one roof to meet the objectives of the project scope. Our core team of professionals has effectively worked together and successfully delivered hundreds of projects with experience and knowledge in the variety of type of projects that are envisioned under this contract. Our most senior technical professionals will guide the overall direction of critical projects and routinely support all projects through Technical Review Committee (TRC) quality checks and or specialist reviews, providing you national level of expertise with local level attention.

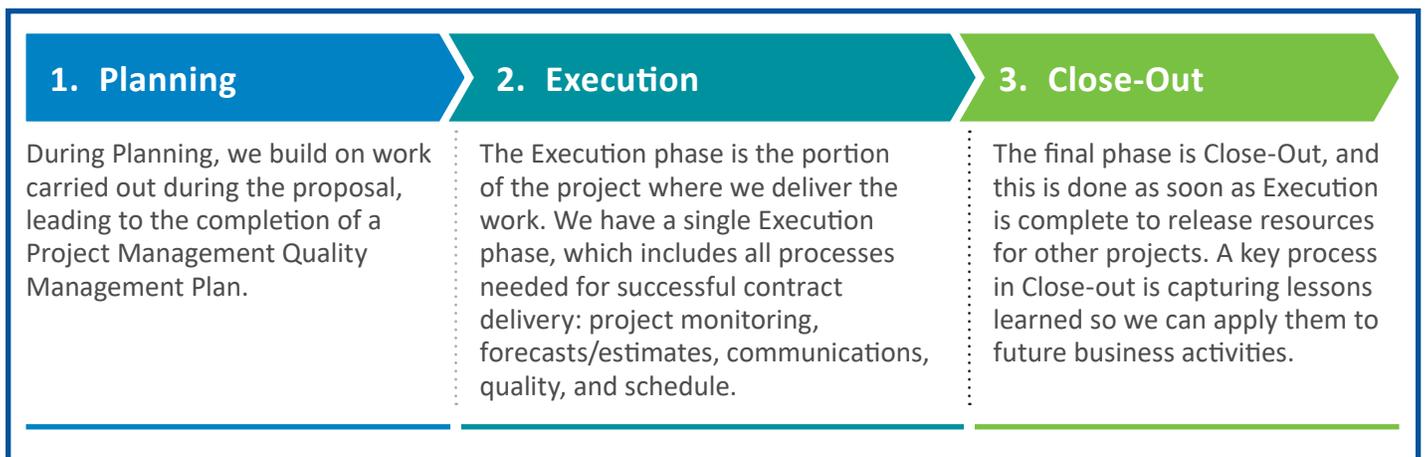
*Our team includes a knowledgeable and diverse staff mix that has the depth of technical resources to cover all scope elements in the RFP. Our proposed team has performed study, permitting, design, construction engineering inspection (CEI), and operations and maintenance (O&M) activities for over 200 municipal clients and thousands of individual projects throughout Florida.*



The success of CDM Smith’s approach begins with a clear understanding of the assigned project. One of the first and most critical steps toward a timely delivery and execution of a project will be to communicate and collaborate with the City and discuss the project’s intent and the needs being addressed. This initial collaboration will allow our team to understand and develop clear and specific objectives for a project and the level of detail required for each deliverable,

**PROJECT LIFECYCLE**

**PROJECT DELIVERY SYSTEM**

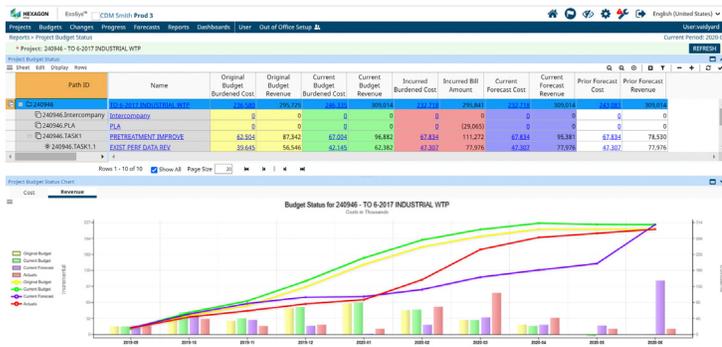


to recognize who the potential stakeholders are, and to begin thinking about the project risks and challenges to overcome. CDM Smith resources are also assigned at the initial scoping meeting with the project manager and the City’s project manager. Once awarded a project, Raj will assemble a project team based on the skill sets required for the specific work assignment and team member availability, which will allow for timely completion of projects. This will ensure our hand-selected project team will have the experience to perform every aspect of the project tasks for which we are assigned under this contract. Because of our diversity of resources, we are able to select resources that have the appropriate level of experience for the best overall cost efficiency.

**Budget and Schedule Controls  
CDM Smith Project Management**

CDM Smith’s project management approach in meeting project specific time requirements starts with our commitment to the time identified in each project. Our technical teams, led by our project manager, work proactively to accomplish these time requirements. Our team is committed to schedules and takes schedules seriously. It is the sure and clear way to be responsive to the City’s budget. CDM Smith’s internal approach to executing and delivering high quality projects within a specific time requirement or schedule, and within a budget, is based on the Project Management Institute’s (PMI) framework to project management. CDM Smith’s project manager Raj Vaidya is third-party certified as Project Management Professional (PMP) by PMI and has managed over a few hundred projects in the last decade.

CDM Smith’s project managers utilize tools such as EcoSys and Oracle to monitor and control a project’s financial performance. EcoSys is a simple visual dashboard that allows a comprehensive quick look at financial data such as project budget, project expenditures, and billing information. All financial information is updated weekly, allowing a project manager to keep a current lose eye



Through CDM Smith's project management tool, EcoSys, we are able to cost load and resources load our entire work breakdown structure and upload it into Primavera P6 to better assist us in planning, tracking, monitoring, and controlling projects and staff availability.

on project budgets. EcoSys dashboard also provides Cost Performance Index (CPI), Schedule Performance Index (SPI) as compared to the Baseline Schedule and Planned Value. It provides an ability to perform accurate Earned Value Analysis and with quick, yet accurate assessment of the projects compared to time, budget and deliverables. Oracle is our project accounting system that provides project managers with a central location for detailed project financial information. Available data includes tracking all project hourly charges, invoices, and overall project financial status.

As a project manager, Raj will develop a project execution plan (PxP) in line with the scope, schedule, and budget for authorized projects which is a consistent manner of project delivery in CDM Smith. This PxP defines project execution as work breakdown structures, work accountability, communications and protocols important for quality and for NPU which our teams follow throughout the project lifecycle. Our project managers leverage our communications and connectivity along with support from project controls to monitor and be in control of projects from resources to delivery and will update NPU staff on a regular and as need basis.

Together with all of the other members of our CDM Smith project team, our core local team will work diligently and efficiently with our project team to expedite various projects as they may be assigned. Our commitment is to ensure that project assignments are evaluated, designed, permitted, and constructed within the City’s time frame and budget. Other CDM Smith experts, namely, **Craig C. Montgomery, PE; Vipin Pangasa, PE, PMP, BCEE; David J. Prah, PE, BCEE; and Stewart J. Magenheimer, PG, PMP;** recognized as leaders in their respective fields, will assist the core team with valuable technical input and design support on other aspects and related issues of your projects.

**Our proven SCHEDULE CONTROL approach anticipates issues early and avoids schedule slippage**

We recognize that time is of the essence during project execution. The overall success of a project is usually dependent on executing the scope within time constraints. When project time deadlines are met, overall project costs are usually controlled. We will develop detailed project schedules for anticipated work in conjunction with the City to: 1) identify milestones and progress review dates, 2) determine external time constraints and to improve capital finance management and cash flow, and 3) clearly delineate the work activities and need for input from the City.

**CDM Smith’s Use of Software, Tools, and Technology**

We have the latest, most up-to-date software and technology to serve the needs of the City and ensure

delivery of projects on schedule and budget. From document management to civil 3D design tools, from AutoCAD to Primavera, from hydraulic modeling to groundwater modeling to surface water modeling, we have the full suite of software to address project controls, project design, and construction management. We use the following tools to support our high-quality deliverables.

- **Primavera™ Construction and Engineering Software:** This software is used for project scheduling on construction projects—from estimating through to the end of construction. The software is web-based and allows CDM Smith staff the opportunity to review and make adjustments, as needed, to a project schedule. Estimates can be downloaded from the Timberline™ Estimating System into Primavera.
- **Sage Timberline™ for Construction Cost Estimating:** Using Sage Timberline™ software as a basis, CDM Smith has constructed a complete set of company standards, including data items, resource codes, crews, production rates, commodity codes, and item attributes. This database is accessed by all estimators to select the items to create an individual estimate.
- **ProjectWise for Design Document Management:** ProjectWise provides one central location where staff can easily access all electronic documents. With all electronic design documents housed in one place, all current and historical documents are readily available, reducing time spent searching for files and documents. This leads to better decisions, better coordination amongst the project team, less re-work, and higher quality deliverables.
- **Civil 3D for Civil Modeling and Design:** our 3D graphic capabilities in the design of facilities and infrastructure reduce the cost of construction and avoid conflicts between engineering disciplines on complex projects.
- **Revit for Building Information Modeling (BIM) and Design:** utilizing BIM technologies, software, and workflows provides for complete asset management, intelligent P&IDs, and seamless coordination with new projects. Leveraging BIM technology streamlines collaboration between disciplines; reduces the number

of designer clarifications, change orders, and redesigns; increases the accuracy of cost estimating; manages current assets; and provides an accurate as-built model of a plant.

We are committed to meeting the City’s schedule and budget requirements. Our extensive experience in managing projects of this nature has shown that the key to successfully meeting schedule and budget is to utilize an experienced project manager who has a disciplined project planning approach. By developing a thorough work plan at the beginning of the project, updating the plan on a monthly basis, and regularly communicating project objectives to the project team, the City should realize benefits in terms of time/cost savings as we have accomplished on previous relevant projects.

**How Personnel Will be Assigned**

**Without a doubt, the CDM Smith team wants to be selected as your TRUSTED PARTNER in the delivery of engineering services for the City of North Port**

CDM Smith’s deep bench of expert staff allows us to assign the right personnel to the right task which result in cost-effective project deliverables. We leverage the experience of our senior technical leaders with our skilled engineering task managers in the context of our proven project management procedures to produce the synergies necessary to produce high quality products cost-efficiently. Project work will be focused at our Fort Myers office, which will ensure coordination and communication among design personnel and facilitate coordination with the City’s personnel as required to quickly resolve any planning, design, or construction issues. While exact workload projections change from day-to-day and week-to-week, The figure on the following pages provides a general summary of the current workload and availability of the team identified for this contract. The percentages provided are estimated due to the multi-year contract, however our staff will be available to complete the City’s projects. *Note, that regardless of workload or individual team members’ availability, CDM Smith is committed to delivering all work assignments on time and within budget as we have done on all of our projects for the City on the current continuing services contract.*

**With the unknown circumstances surrounding COVID-19, the CDM Smith team will work with the City to effectively deliver your project through multiple methods of communications, safely and as appropriate.**



FACE-TO-FACE



WRITTEN DOCUMENTS



VIDEO CONFERENCING & SCREEN SHARING



INTEGRATED CONTENT AND DOCUMENT MANAGEMENT



TELEPHONE / CONFERENCE CALLS



EMAIL

Based on our recent and current work in Southwest Florida and around the state, we know that there are specific client service items that are paramount. First of all, open and frequent communication is necessary. In our current projects, these updates usually involve phone calls for simple items, but can also involve face-to-face meetings for complex items where multiple parties are involved. CDM Smith was also an early adopter of work from home technologies including Microsoft Teams, which has been invaluable during the current COVID-19 situation. Our project manager, Dr. Vaidya will ensure that CDM Smith’s communications with the City follow this approach. Second, we know that the City wants to be involved during all facets of the projects. We also understand that the City staff are hands-on when it comes to design input. In all of our reference projects, the CDM Smith team made sure that our clients were involved with providing regulatory, design and especially O&M input. During each project kickoff meeting, we will discuss submittals and tailor them to the City’s desired level of involvement. We will work with the City to design solutions to your utilities, water, wastewater, sewer, reclaimed water, and groundwater projects. Moreover, we will also work closely with your operations and maintenance staff to implement best maintenance practices and adequate documentation.

**Available Facilities, Technological Capabilities, and Other Resources**

The primary office for the execution of work on this project is our Fort Myers office. However, CDM Smith has nine other offices and nearly 400 employees in Florida. As stated previously, primary support for this project will come from the Sarasota, Tampa, and Orlando offices. The Orlando office is CDM Smith’s production center for southeastern United States and as such has significant engineering, drafting, and construction management resources available for use on assignments under this contract. The Orlando office also houses one of our design-build centers and has access to the latest engineering technologies that can be implemented on the City’s projects.

Team Member	Availability	Team Member	Availability
Patrick R. Victor, PR, DWRE	10% Availability	Carl S. Frizzell, PhD, PE	30% Availability
Jason A. Sciandra, PE	20% Availability	Vipin Pangasa, PE, PMP, BCEE	20% Availability
Rajendra (Raj) D. Vaidya, PhD, PE, PMP, BCEE	30% Availability	David J. Prah, PE, BCEE	15% Availability
Craig C. Montgomery, PE	5% Availability	Michael J. Graham, PE	20% Availability
Stewart J. Magenheimer, PG, PMP	10% Availability	Cynthia L. Stellmack, PE	15% Availability
Brian M. Karmasin, PE, BCEE	20% Availability	W. Scott Whitmore, PE	15% Availability
David MacNevin, PhD, PE, LEED AP	20% Availability	Thomas W. Nichols	25% Availability
Jorge M. Arevalo, PhD, PE	20% Availability	Stephen L. Whiteside, PE	10% Availability
Karen R. Lowe, PE, PMP	10% Availability	James T. Wittig, PE	10% Availability
Blake E. Harvey	50% Availability	Charles B. Thaggard, PE	50% Availability
Sirwan Alimoradi, PhD, PE*	40% Availability	Michael T. Alford, AIA, LEED® AP BD+C	10% Availability
Greg D. Wetterau, PE*, BCEE	10% Availability	Andrew Baranowski	15% Availability
Greg T. Isaacs, PE	40% Availability	Kevin M. Francoforte, PE	20% Availability
Travis Meyer, PE*	20% Availability	Diane C. Kemp	5% Availability
Charles B. Thaggard, PE	50% Availability	Craig A. Gadberry, PE	5% Availability
Isaac D. Holowell, PE	50% Availability	Stephen M. Solters	5% Availability
Marc C. Stonehouse, PE	50% Availability	W. Todd Stevenson	10% Availability
Clay M. Tappan, PE, BCEE	25% Availability	George E. Reilly, PE	50% Availability
Dewayne C. Wallace	50% Availability	John S. Chandler	10% Availability
Lee P. Wiseman, PE, BCEE	25% Availability	Brendan V. Brown, PWS	15% Availability



# TAB 6

# REFERENCES



# Tab 6: References

## References

CDM Smith offers the City a demonstrated ability to provide local continuing service contract to Southwest Florida area clients. We have provided similar services to utilities in Florida and nationwide, helping them to deliver their important utility projects. We encourage you to contact our client references to learn firsthand of the dependable delivery and outstanding service you can expect to receive from CDM Smith professionals.



### Relevant Features:

- Permitting of the facilities with SFWMD, FDEP, and the Building Department
- Engineering bond report
- Development of a computerized maintenance management system
- Regulatory compliance reporting
- Laboratory evaluation
- Design and CEI for numerous small structural, facility, electrical, HVAC, piping, and equipment projects

### Reference 1 Contact: *City of Fort Myers*

1501 Raleigh Street, Fort Myers, FL 33902 • Heath Laufenberg; Interim WW Superintendent • Tel: 239.321.7574 • Fax: 239.344.5941 • Email: hlaufenberg@cityftmyers.com

### Wastewater Engineer-of-Record Project Description:

CDM Smith was retained to provide miscellaneous engineering study, design, CEI, and consulting services as authorized under various work order assignments at the City's 11-mgd Central AWWTF and 12-mgd South AWWTF. The contract has included more than 40 work order assignments each with a study value of under \$200,000 or a construction value under \$2,000,000 for design work. Details of a few of the larger assignments are provided below.

### Biosolids Dewatering Alternatives Evaluation and Pilot Study

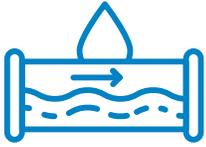
CDM Smith performed a biosolids dewatering alternatives evaluation and pilot study that evaluated modern belt filter presses, centrifuges, or screw presses to replace the existing equipment. The three dewatering technologies were evaluated on a present worth cost basis that included hauling, disposal, power, polymer, and labor as well as non-cost factors such as operability and construction considerations. Conceptual designs for the replacement of the dewatering equipment and ancillary components were prepared for each alternative. An on-site pilot study was conducted at the South AWWTF to further define the expected performance of each of the dewatering technologies. Present worth cost estimates were developed to provide a side-by-side comparison of the life-cycle costs of each dewatering alternative. Based on the final ranking of alternatives, centrifuges were recommended for the AWWTFs.

### South and Central AWWTF Structural Design

CDM Smith completed a structural facility evaluation of the South and Central AWWTFs in August 2013 and provided a report summarizing recommended repairs. The top priority repairs at each facility were identified as those for the clarifiers and screen and grit buildings. The City then authorized CDM Smith to develop plans and specifications for the repairs to these facilities at each AWWTF. In addition to the structural repairs, CDM Smith was retained to design a repair and bypass for the Lee County Utilities (LCU) influent line at the City of Fort Myers Central AWWTF to allow or removal and replacement of a corroded section downstream. The plans and specifications for the repairs were developed to minimize impacts to ongoing plant operations and require the Contractor to provide necessary bypass infrastructure. CDM Smith assisted the City with procurement of the Contractor and provided construction phase engineering services.

**Completion Date:** Ongoing

**Total Project Cost:** \$3.6M



### Relevant Features:

- Permitting of facilities with SFWMD, FDEP, and building department
- Biological process (BioWin) and hydraulic (Visual Hydraulics) modeling
- Design and CEI for WWTP expansion including pretreatment, biological process, clarification, filtration, structural, electrical, and instrumentation

### Reference 2 Contact: *Lee County*

1500 Monroe St. 3rd Floor, Fort Myers, FL 33901 • Lyssa Lott, Public Works Project Manager • Tel: 239.533.8149 • Fax: 239-485-8845 • Email: llott@leegov.com

### Project Description:

CDM Smith provided preliminary design, final design, permitting, and construction administration services for the upgrade of the Three Oaks WWTP to achieve a biological treatment capacity of 6 mgd ADF with considerations or future expansion to 8 mgd ADF. The major components for the design improvements included: modifying the existing headworks to provide flow distribution to the new and future oxidation ditch; adding 30-horsepower brush aerators to Oxidation Ditches 1 and 2; modifying the existing secondary clarifier flow splitter box to accommodate a third secondary clarifier; installation of a new 1.5-MG oxidation ditch rated at an ADF capacity of 2 mgd, with three 75-horsepower surface aerators; installation of two 85-foot diameter secondary clarifiers with return activated sludge (RAS) and waste activated sludge (WAS) pumping capabilities; addition of a new belt filter press feed pump, new polymer feed and storage system, new belt filter press, and a shaftless screw conveyor to convey sludge to the existing truck loading station; replacement of the existing sodium hypochlorite storage tanks and canopy; new administration building to house new offices, a new laboratory, conference rooms, and restrooms; a new electrical building to house new motor control centers; demolition of the existing peripheral feed clarifiers and mothballed treatment facilities located on the south side of the site; site work including paving, grading, and stormwater conveyance; yard piping; and an electrical and automation upgrade.

During construction, we worked in collaboration with the construction manager at risk, to implement this Project. This included weekly team meetings and owner review on a vast majority of shop drawing submittals. CDM Smith developed a cost-effective plan for the upgrade and expansion of the Three Oaks WWTP, which included a detailed operations plan during construction to ensure minimal impact on the operation of the facility. In addition, we recommended an interim plan to add additional aeration capacity at the plant during the time that it was being upgraded in order for the plant to handle seasonal peak flows.

**Completion Date:** 2018

**Total Project Cost:** \$31.5M



### Relevant Features:

- Cost saving measure to reduce clarifier size to 60 foot diameter with over \$7M savings in capEX, we are testing ferric coagulant over alum for final design
- Beneficially reuse municipal wastes

### Reference 3 Contact: Pinellas County

22211 US Hwy 19 N, Clearwater, FL 33765 • Catherine Nguyen, Project Manager • Tel: 727.464.7525 • Fax: N/A • Email: cnguyen@co.pinellas.fl.us

### Membrane Filtration Pretreatment Improvements Project Description:

The 2.5-mgd industrial water treatment plant (IWTP) located at Pinellas County's Bridgeway Acres Landfill (BWA) utilizes alum clarification, microfiltration (MF), and reverse osmosis (RO) to treat pond water for use by the Waste-to-Energy (WTE) facility on site. However, performance constraints with the existing solids contact clarifier system have restricted the IWTP MF system from attaining its full design production capacity, resulting in issuance of a Consent Order (CO) requiring the facility attain its full capacity in fewer than 24 months. The County was unsuccessful with two other A/E firms to troubleshoot the pretreatment issue and has a severely under performing clarifier/thickener to pretreat surface water/leachate for a RO WTP. Pinellas County retained CDM Smith to identify a solution to help the County comply with the CO.

Reviewing existing performance data from the IWTP over the last six years, high effluent turbidity carryover events from the solids contact clarifier have been reported as one of the leading factors contributing to fouling of the MF membranes. Our team identified operational alternatives that could allow the County to resolve this issue while educating or eliminating the need for a new clarifier.

1. We applied data analytics to review two years of clarifier and membrane pretreatment SCADA data, as well as nearly 5,000 routine jars to generate performance "heatmaps" of turbidity removal and membrane fouling rates versus alum dose. Our analysis demonstrated that a 33% lower alum dose without caustic soda addition would improve turbidity removal and lower chemical costs.
2. We also provided a critical review of jar tests by another consultant, identifying a costly error in the jar test settling time assumption used by operators and other design engineers. Our team's review showed that the County could restore the plant to full capacity, saving \$7.3M in construction costs to build a new clarifier and complying with the CO deadline 12 months ahead of schedule by switching from alum to ferric sulfate.

CDM Smith is now working with the County to verify these results at bench scale before proceeding to a full-scale pilot of the County's preferred operational improvement. Our team is also providing automation design for incorporating the new treatment train into the IWTP's existing SCADA system, in addition to monitoring a chemical pilot test through the existing SCADA system.



### Relevant Features:

- Design, permitting, and construction services to upgrade the pump station
- Complex system hydraulics with several large pumps (2,000 HP) pumping into a common manifold at about 150 psi
- During construction we have successfully managed the temporary system shut-off in a few hours required to completed project valving and associated controls without any adverse effects to treatment or distribution system

### Reference 4 Contact: *Tampa Bay Water*

8845 Pump Station Rd, Land O Lakes, FL 34639 • Richard Menzies, PE; Project Supervisor • Tel: 727.796.2355 ext 2381 • Fax: N/A • Email: rmenzies@tampabaywater.org

### Replacement of Pump No. 7 at the High Service Pump Station (HSPS) Project Description:

As Tampa Bay Water's service area continues to experience growth, the Agency identified the need to increase capacity at its Regional Facility Site (RFS) High Service Pump Station (HSPS). CDM Smith was retained under our as-needed services contract to provide design, bidding, and construction phase services to complete modifications to the HSPS at the WTP, which included six 2,000-hp pumps powered through variable frequency drives (VFDs) and one 600-hp horizontal split case pump. The combined firm pumping capacity of this potable water pump station (HSPS) does not currently meet the permitted capacity of 120 mgd as average daily flow and 132 mgd as peak day flow. We permitted this large pump station with a no request for additional information (RAI) from FDEP or Southwest Florida Management District (SWFWMD) which co-funded this project with Tampa Bay Water.

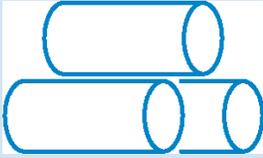
Our team designed the following modifications:

- Replacement of the existing 600-hp Pump No. 7 with a new 2,000-hp pump to match existing Pump Nos. 1 – 6.
- Replacement of discharge piping and valves.
- Power distribution system modifications to support the addition of one new medium voltage VFD and new 2,000-hp pump.
- Addition of branch circuits and power connections from new VFD to the existing 13.2kV Switchgear.
- Short circuit and load flow analysis for the addition of a new pump and VFD.
- Miscellaneous electrical system improvements as required for the installation of the new pump system and VFD.
- Removal and replacement of existing motor control circuits and motor protective device wiring.
- Control system modifications and addition of new I&C wiring and conduits needed to integrate the new pump into the existing HSPS PLC and HMI control system.

We also evaluated the existing HVAC systems based on the increased cooling requirements associated with the new pump and VFD. As part of the design, we ensured project compliance with SWFWMD funding requirements. The design was successfully delivered on schedule and within budget and successfully bid, and construction is currently underway.

**Completion Date:** Ongoing

**Total Project Cost:** \$331,400



### Relevant Features:

#### Reference 5 Contact: *St. Johns County*

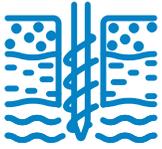
1205 State Road 16, St Augustine, Florida 32084 • James Overton, Project Engineer •  
Tel: 904.209.2614 • Fax: 904.209.2615 • Email: [joverton@sjcfl.us](mailto:joverton@sjcfl.us)

#### International Golf Parkway (IGP) Reclaimed Water to Palencia Project Description:

SJCUD sought to expand their reclaimed water distribution system due to continued new development within the St. Augustine area. CDM Smith was contracted to design and provide engineering services during construction for approximately 14,000 lf of reuse main and 8,000 lf of force main along International Golf Parkway (IGP). To realize potential cost savings and prepare for future service demands, approximately 7,800 lf of parallel force main was also added to the project. Additionally, the project was selected by the St. Johns River Water Management District (SJRWMD) to receive cost-share funding equal to one-third of the estimated construction cost for alternative water supply development. The majority of construction (8,600 lf of 20" and 24" reclaimed; 6,300 lf of 20" force main) utilized horizontal directional drilling (HDD) technology. For the crossing of I-95, options evaluated included micro tunneling, HDD, and placement along an overpass. HDD was selected and included monitoring for potential subsidence and mitigation of impacts to the Florida Department of Transportation (FDOT) interstate.

**Completion Date:** 2016

**Total Project Cost:** \$3.95M



### Relevant Features:

- Permitting of facilities with SFWMD, FDEP, and building department
- Hydraulic modeling injection pump system
- Design and CEI for well drilling and wellhead including process piping, structural slab, electrical and instrumentation
- Operational testing and conversion of the construction permit into an operating permit

### Reference 6 Contact: *City of Cape Coral*

815 Nicholas Parkway East, Cape Coral, FL 33915-0027 • Jody Sorrels; Utilities Engineer (Civil Engineer II) • Tel: 239.471.6766 • Fax: 239.574.0855 • Email: jsorrels@capecoral.net

### Southwest WTP Underground Injection System Project Description:

The City of Cape Coral currently operates a 9.9-mgd Class I injection well system located at the Southwest Water Treatment Plant (SWWTP) and Southwest Water Reclamation Facility (SWWRF). The injection well is permitted to dispose of non-hazardous reverse osmosis (RO) concentrate from the SWWTP and nonhazardous treated effluent from the SWWRF. Prior to the installation of the injection well (IW-1), RO concentrate from the SWWTP was disposed via a pipeline discharge into the Marauder Canal, which empties into Lake Finisterre.

In 2011, discharge monitoring reports submitted to the Florida Department of Environmental Protection (FDEP) indicated several parameters exceeded allowances. As a result, the City entered into a Consent Order (CO) with FDEP, the purpose of which was to eliminate the RO concentrate discharge into Marauder Canal and decommission and dismantle the submerged multiport rapid rate diffuser system. With the elimination of the discharge pipeline, the City required a second disposal well (IW-2) as backup for RO concentrate that would also provide additional backup disposal capacity for the SWWRF. In compliance with the CO, CDM Smith provided preliminary design and permitting services to construct a second Class I injection well (IW-2) that serves the SWWTP.

During preparation of the permit application, our team evaluated several alternatives for construction of IW-2, which included types of materials, various casing and tubing sizes and rated capacities, solid versus fluid-filled annulus, and capacity requirements for both the RO concentrate and effluent waste streams under different operating scenarios. We originally designed IW-2 with a fluid-filled annulus to provide for the required SWWTP concentrate disposal and provide for full back-up of the SWWRF effluent at minimal cost, and the City received permit approval for this option in January 2014 to construct IW-2.

Since that permit was issued, however, the FDEP indicated a willingness to consider using the larger primary casing for determination of disposal capacity for both RO concentrate and wastewater effluent with a cement filled annulus, allowing for a smaller diameter and a less costly well that does not require the ongoing testing that a fluid filled annulus requires. As such, our team was subsequently retained to modify the existing permit and provide final design, bidding, construction phase, and testing services for the cement filled annulus IW-2. Construction was completed one month ahead of schedule and under budget and resulted in an 18-inch diameter well to a depth of 2,800 ft bls with a 14 mgd capacity. This project was completed on schedule, within budget, and without change orders.

**Completion Date:** 2020

**Total Project Cost:** \$1.2M



Tab 7:  
Litigation/Insurance



TAB  
7

LITIGATION/INSURANCE

## Tab 7: Litigation and Insurance

### Litigation

Because of its size and volume of business, CDM Smith Inc. has occasionally been involved in litigation. There have been no litigation proceedings within the past five (5) years that could adversely affect the financial position or ability of the firm to perform its contractual commitments. Below is a list of lawsuits filed against CDM Smith Inc. over the past five (5) years involving performance on utility projects. None of these matters arise from projects in Florida.

Date Filed	Case Name	State	Forum	Case #	Circumstances	Status
28-Jan-20	City of Brevard, a North Carolina Municipal Corporation v. CDM Smith Inc.	NC	NC Superior Court, County of Transylvania	20 CVS 49	Plaintiff alleges breach of contract and negligence in engineering services performed for pump station and flow equalization tank at a wastewater treatment plant improvements project. Plaintiff alleges contaminated soil from nearby property was improperly handled.	Pending
01-Nov-19	Santa Clara Valley Water District v. CH2M Hill, Inc., CDM Smith, Inc., DOES 1 - 60	CA	Superior Court of the State of California, County of Santa Clara	19C357874	Plaintiff alleges engineering errors in water treatment plant residuals management project	Pending
25-Oct-18	Spence Brothers v. Board of County Road Commissioners of the County of Bay, and Board of County Road Commissioners of the County of Bay, Counter-Plaintiff, v. Spence Brothers, Counter-Defendant/Third-Party Plaintiff, v. CDM Smith Inc., Third-Party Defendant.	MI	Circuit Court for the County of Bay, State of Michigan	Case No. 18-3360-CK	Third Party Plaintiff alleges CDM Smith submitted project documents with errors in water treatment plant project.	Pending
21-Sep-18	Cambria Community Services District, a California Independent Special Services District v. CDM Smith Inc., a Massachusetts Corporation, and DOES 1 through 25, inclusive	CA	Superior Court of the State of California for the County of San Luis Obispo	Case No. 18CVP-0318	Plaintiff alleges CDM Smith breached its contract and was negligent in the performance of engineering services in water treatment facility design project	Pending
02-Apr-18	Daniel Nishihara, et al. v. CDM Smith Inc., f/k/a/ Camp Dresser & McKee Inc., Damien Herrera, P.E., S.J. Louis Construction of Texas Ltd., S.J. Louis, LLC, and City of San Antonio, acting by and through its San Antonio Water System Board of Trustees	TX	285th Judicial District in Bexar, Texas	Cause No. 2018CI05898	Wrongful death action allegedly arising from damage to roadway due to wastewater pipe failure.	Closed
28-Apr-17	The City of Meridian vs. Hemphill Construction Company, Inc.	MS	Circuit Court of Lauderdale County, MS	CN: 17-CV-050(c)	Plaintiff alleged damages related to pump failures.	Closed

28-Apr-17	City of Santa Barbara, etc., vs. CDM Smith Inc., etc., et al	CA	Santa Barbara County, Superior Court - Santa Barbara, CA	Case #17CV01847	Plaintiff alleged Defendant breached its contract and was negligent in water treatment plant improvement project.	Closed
31-Mar-17	St. Bernard Parish Government v. CDM Smith Inc., et al	LA	34th Judicial District Court for the Parish of St. Bernard	No. 17-0454	Plaintiff alleged damages related to blowers that operate the wastewater treatment plant's aeration basin.	Closed
12-Aug-16	Pepper-Lawson Construction, LP v. March Construction, Inc.; RLI Insurance Company, Desert Steel Co., Inc., Skyline Forming South Texas, Inc., Jack Claflin, Plan C Contracting, L.P., The Redland Group, LLC, Brushy Creek Regional Utility Authority; Safeco Insurance Company of America; CDM Smith, Inc.; and Jose I. Guerra, Inc.	TX	277th Judicial District Court of Williamson County, TX	Cause No. 15-0033-C277	Contractor claimed defects in design of water plant. Because the claims involve design of reinforced concrete structures which was done by our subconsultant, CDM Smith filed a third-party claim to join Jose I. Guerra, Inc.	Closed
17-Jun-16	Commonwealth of Massachusetts v. Veolia Water North America North-East LLC, et al. including CDM Smith and Town of Plymouth	MA	Superior Court Department, Suffolk County	16-1282E	Third party complaint alleges damages resulting from sewage main failure alleged to result from negligent preliminary design.	Closed
02-May-16	Town of Plymouth vs. Veolia Water North America - Northeast LLC, Veolia Water North America Operating Services, et al including CDM Smith Inc.	MA	US District Court District of Massachusetts	No. 1:16-cv-10451-DJC	Damages resulting from to sewage main failure alleged to result from negligent preliminary design.	Closed

**Insurance**

CDM Smith Inc.'s liability insurance satisfies the insurance requirements set forth in the Sample Agreement #2020-58. We have included a copy of our Certificate of Liability Insurance at the end of **Tab 9**.



# TAB 8

# ADDITIONAL INFORMATION

**Comprehensive Services To Municipal Clients**

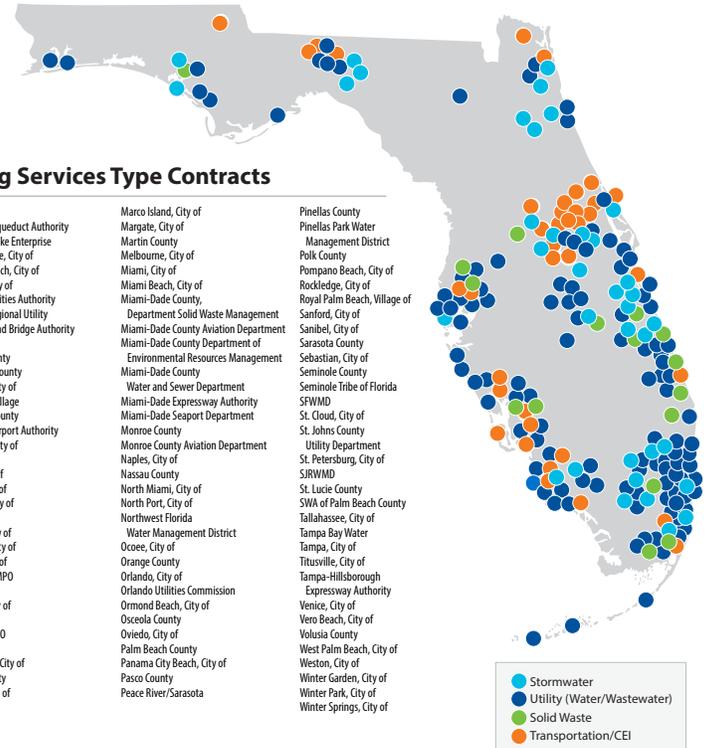
One of CDM Smith’s distinguishing features is our ability to pool project knowledge gained from more than 73 years of experience. Our employees can access experts in-house and the products of past projects within our state-of-the-art web based knowledge system. From our past experience and our completed projects, we have unparalleled knowledge and understanding of the regulatory environment in Florida with respect to water and wastewater facilities.

We have maintained several hundred different continuing services contracts with 150 government entities throughout Florida. The services provided under these contracts vary by client and cover the full range of services offered by CDM Smith.

We understand the importance of comprehensive services provided to handle the various needs of a general consulting contract including planning, renewal and replacement design, scoping for larger capital projects, emergency/unexpected situation resolution, modeling, and various support services.

**Technical Qualifications**

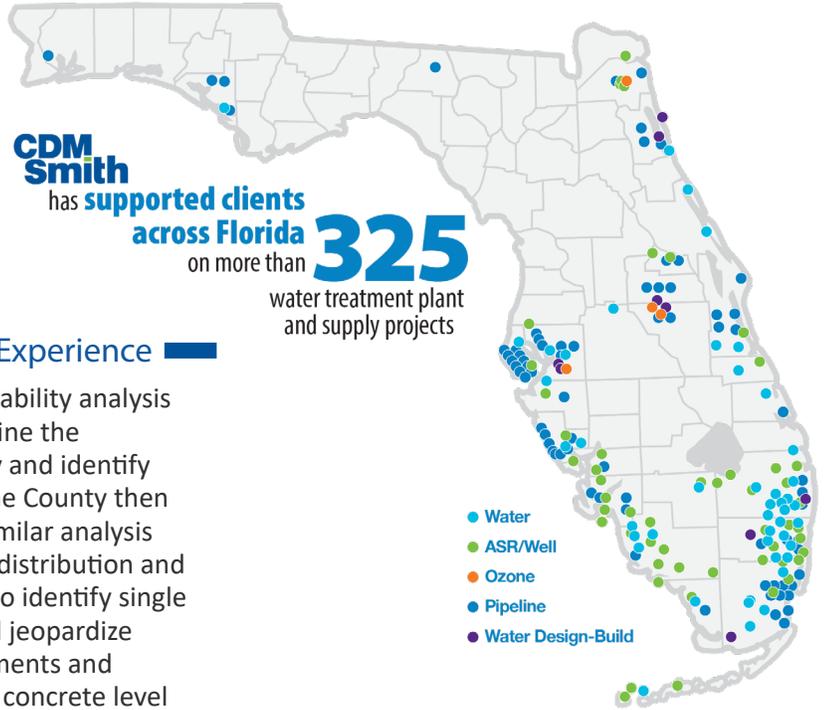
We have been successfully assisting clients nationally for 73 years, and locally in Florida for more than 41, and we are among the country’s premier consulting engineering firms. CDM Smith is a one-stop shop for the City’s complete scope of services. As evidenced by our organizational chart and project team experience, our local team provides the City with leach key discipline anticipated in this Request for Qualifications (RFQ). In addition to our local team’s qualifications, which have been outlined throughout our submittal, CDM Smith provides the City comprehensive and industry-leading experience in your scope of services as detailed in **Tab 2** and in the following pages.



SOURCE: ENR; APRIL/MAY 2019, JUNE 2019, APRIL/MAY 2020

**Water Treatment Plants**

Drinking water supply, treatment, and distribution, in particular, has been our core business since our founding in 1947. As a firm, CDM Smith has completed more than 2,500 WTP projects and designed 1,500 new or expanded WTPs. Locally, we have been leading the way in WTP projects for 44+ years with more than 325 WTP projects across the State in the last 10 years alone.



**Local Experience**

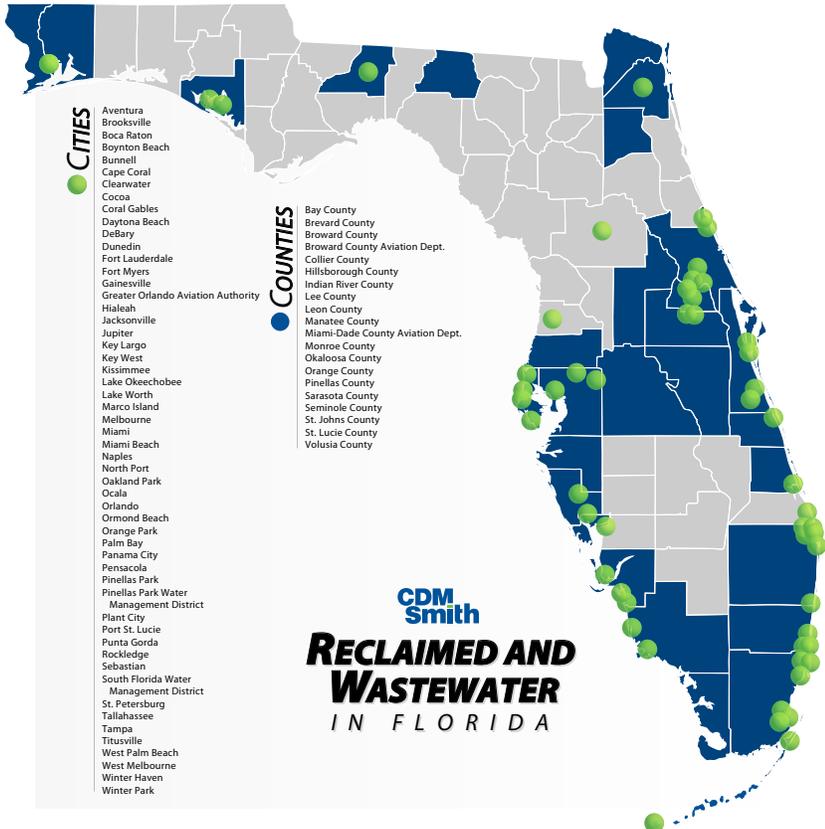


Regional Water Treatment Study, Collier County, FL

CDM Smith provided a reliability analysis of the NCRWTP to determine the electrical system reliability and identify potential failure points. The County then requested we provide a similar analysis for the SCRWTP electrical distribution and water production system to identify single points of failure that could jeopardize water production requirements and provide the County with a concrete level of technical confidence.

**Wastewater Treatment Plants**

Our wastewater planning, design, permitting, and construction management experience includes more than 270 individual WWTPs with more than 220 clients in 46 states since the turn of the century. In Florida alone, this includes more than 250 WWTP/WRF projects completed in Florida in the last 10 years.



**Local Experience**



RWPF Improvements, Marco Island, FL

CDM Smith installed new positive displacement blowers and coarse-bubble diffusers at the Marco Island RWPF to convert the existing contact stabilization, and aerobic digesters

into a new aeration process with an anoxic zone. As part of this conversion, team members replaced existing coarse-bubble diffusers and air-distribution piping with 2,746 membrane diffusers (using the existing air distribution duct, which is integral to the clarifier walkway).

**➔ CDM Smith’s Innovative Engineering Capabilities**

At the forefront of the planning, permitting, design, and construction administration of infrastructure improvements

**Water**

We have extensive experience with the assessment, planning, modeling and hydraulic engineering, design, bidding, and construction of water transmission improvements and have completed more than 1,000 waterline design projects



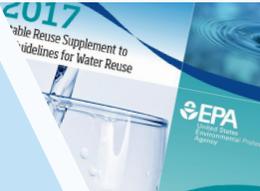
**Wastewater**

For nearly seven decades, we have supported clients to provide reliable infrastructure for their wastewater needs, including process improvements, biosolids management, reuse, treatment, effluent pumping, transmission, and disposal



**Reclamation**

We have helped EPA update their water reuse guidelines for the last seven editions (1980, 1992, 2004, 2010, 2012, 2015, and 2017).



**Conveyance Systems**

Planning, design, and construction of channels and ditches (including permeable and impermeable); stormwater conveyance systems; and pipelines



**CEI**

Extensive experience providing reliable CEI services on numerous City projects offering the City quality and accurate construction of stormwater and roadway projects



**Multi-disciplinary Local Firm**

CDM Smith is a multi-disciplined engineering firm with full service capabilities. In addition to our core water, wastewater, environmental, and stormwater, we have local mechanical, structural, architectural, electrical, and instrumentation professionals based in our Florida offices.

**Hydraulic Modeling**

Over the past five years alone, we have performed hundreds water and wastewater hydraulic modeling projects for clients throughout Florida and are experienced with H2ONet, Innovyze InfoWater, Innovyze InfoWorks ICM, Bentley WaterGEMS, KY Pipe, EPANET, Autodesk HydraulCAD, PIPE-FLO, and Visual Hydraulics.

**Evaluation of Bids and Proposals for Construction Projects**

Our general approach to developing procurement documents and contracts consists of using workshops with City and CDM Smith staff at key development points and preparing, distributing, and discussing issue-focused materials in advance of detailed drafts of procurement documents.

**Permit Coordination**

Preparation of bid documents including bid tabulation, regular contractor meetings, shop drawing review, responding to contractor’s request for information, and reviewing and approving contractor payment requests.

**Construction Administration**

Our extensive experience in permitting local water, wastewater, and stormwater projects and associated pipelines and equipment, provides valuable insight into the necessary design elements and relations with the regulatory agencies. Further, we actively participate in regulatory task forces and rule-making committees with the Florida Department of Environmental Protection (FDEP) and the Environmental Protection Agency (EPA).

I. AUTHORIZED REPRESENTATIVE

THE FOREGOING IS A STATEMENT OF FACTS

31. SIGNATURE



32. DATE

July 20, 2020

33. NAME AND TITLE

Jason A. Sciandra, PE; Principal



# TAB 9

## SUBMISSION REQUIREMENTS AND REQUIRED SUBMITTAL FORMS

### 33. Name and Title. Self-explanatory.

**TAB 9 – SUBMISSION REQUIREMENTS AND REQUIRED SUBMITTAL FORMS:** This checklist is provided to assist each Proposer in the preparation of their response. Included in this checklist are important requirements, which is the responsibility of each Proposer to submit with their response in order to make their response fully compliant. This checklist is a guideline which is to be executed and submitted with the required forms. It is the responsibility of each Proposer to read and comply with the solicitation in its entirety.

#### A. SUBMITTAL REQUIREMENTS

1. **NUMBER OF PAGES:** The proposal **shall not exceed (38) pages (one-sided) or (19) pages (two-sided) in length. (The Title Page, Table of Contents, City Required Forms, 330 Forms and tabs do not count towards the TOTAL NUMBER OF PAGES).**

1.1 When compiling a response, sections should be tabbed and labeled; pages should be sequentially numbered at the bottom of the page; proposals should be bound to allow flat stacking for easy storage; **do not use three ring binders of any kind**; and sections should be compiled in the sequence list above.

1.2 Place proposal with all the required items in a sealed envelope clearly marked for specification number, project name, name of proposer, and due date and time.

2. **PAPER/FONT SIZE:** 8.5"x11"/Font Calibri 11, PDF FORMAT.

3. **NUMBER OF ORIGINAL PROPOSALS:** One (1) original hard-copy **UNBOUND** (marked "**ORIGINAL**") and signed in **blue ink**. **NUMBER OF COPIES:** five (5) hard copies **BOUND** (marked "**COPY**") (**1 original + 5 copies = 6 total submittals**).

4. **USB Flash Drive:** One (1) electronic version in Portable Document Format (PDF) **on** a USB Drive containing the entire submittal. USB drive only. **CDs will not be accepted.**

#### B. REQUIRED SUBMITTAL FORMS: City Required Submittal Forms/Checklist

##### **READ/EXECUTED & INCLUDED**

- Proposal Submittal Signature Form
- Statement of Organization
- References
  
- Drug-Free Workplace (If Applicable)
- Public Entity Crime Information
- Non-Collusive Affidavit

- Lobbying Certification
- Conflict of Interest Form
- Disclosure Form (Consultant/Engineer/Architect)
  
- Scrutinized Business Certification Form

State Registration Requirements (<http://www.sunbiz.org/search.html>)

Copy of Registration, Attached

State required license for Prime Firm Only (Not sub-consultants)

**SAMPLE INSURANCE CERTIFICATE:** Demonstrate your firm's ability to comply with insurance requirements. Provide a previous certificate or other evidence listing the Insurance Companies names for both Professional Liability and General Liability and the dollar amounts of the coverage.

YES  NO Sample Insurance Certificate is included with the submittal

**MBE/WBE/VBE:** If claiming Minority Business Enterprise/Women Business Enterprise/Veterans Business Enterprise, the Prime Firm (not sub-consultant) **shall be** certified as a Minority Business Enterprise by the State of Florida, Department of Management Services, Office of Supplier Diversity pursuant to Section 287.0943, Florida Statutes.

YES, CLAIMING MBE/WBE/VBE STATUS AS PRIME ONLY

YES, I'VE ATTACHED THE CERTIFICATE OF MBE/WBE/VBE STATUS FROM THE STATE OF FLORIDA AS OUTLINED SECTION 12.

NOT CLAIMING MBE/WBE/VBE

**THIS PAGE MUST BE COMPLETED AND SUBMITTED WITH YOUR PROPOSAL**

**PROPOSAL SUBMITTAL SIGNATURE FORM**

The undersigned attests to his/her authority to submit this proposal and to bind the firm herein named to perform as per Agreement, if the firm is awarded the Agreement by the City.

The undersigned further certifies that he/she has read the Request for Proposal, Terms and Conditions, Insurance Requirements and any other documentation relating to this request and this proposal is submitted with full knowledge and understanding of the requirements and time constraints noted herein.

As addenda are considered binding as if contained in the original specifications, it is critical that the firm acknowledge receipt of same. The submittal may be considered void if receipt of an addendum is not acknowledged.

Addendum No. 1 Dated 7/2/2020 Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. 2 Dated 7/10/2020 Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_  
Addendum No. 3 Dated 7/15/2020 Addendum No. \_\_\_\_\_ Dated \_\_\_\_\_

**Company Name** CDM Smith, Inc.

239.938.9618 sciandraja@cdmsmith.com 239.339.6418  
**Telephone # E-Mail Fax #**

4210 Metro Parkway, Suite 230  
**Main Office Address**

Fort Myers FL 33916  
**City State Zip Code**

**Address of Office Servicing City of North Port, if different than above:**  **SAME AS ABOVE**

**Office Address**

**City State Zip Code**

**Telephone # E-mail Fax #**

Jason A. Sciandra, PE; Principal  
**Name & Title of Firm Representative**

  
**Signature** July 20, 2020  
**Date**

Do you accept Visa?  YES  NO

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**STATEMENT OF ORGANIZATION**  
**(Information Sheet for Transactions and Conveyances Corporation Identification)**

The following information will be provided to the City of North Port for incorporation in legal documents. It is, therefore, vital all information is accurate and complete. Please be certain all spelling, and capitalization is exactly as registered with the state or federal government.

**Name of Respondent:** CDM Smith, Inc.

**DBA (if any):** N/A

**Type of Entity** (Sole Proprietor, Corporation, LLC, LLP, Partnership, etc): Corporation

**Business Address:** 4210 Metro Parkway, Suite 230, Fort Myers, FL 33916

**Phone:** 239.938.9618 **Fax:** 239.339.6418

**E-Mail:** sciandraja@cdmsmith.com

**Print Name and Title of person authorized to bind:** Jason A. Sciandra, PE; Principal

**Federal Identification Number:** 04-2473650

**Signature:** 

Respondent shall submit proof that it is authorized to do business in the State of Florida unless registration is not required by law.

**(Please Check One)**

**Is this a Florida Corporation:**  Yes or  No

**If not a Florida Corporation,**  
In what state was it created: Massachusetts  
Name as spelled in that State: CDM Smith, Inc.

**What kind of corporation is it:**  "For Profit" or  "Not for Profit"

**Is it in good standing:**  Yes or  No

**Authorized to transact business in Florida:**  Yes or  No

State of Florida Department of State Certificate of Authority Document No.: 832235

**Does it use a registered fictitious name:**  Yes or  No

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**STATEMENT OF ORGANIZATION**  
**(Information Sheet for Transactions and Conveyances Corporation Identification)**

The following information will be provided to the City of North Port for incorporation in legal documents. It is, therefore, vital all information is accurate and complete. Please be certain all spelling, and capitalization is exactly as registered with the state or federal government.

**Name of Respondent:** CDM Smith, Inc.

**DBA (if any):** N/A

**Type of Entity** (Sole Proprietor, Corporation, LLC, LLP, Partnership, etc): Corporation

**Business Address:** 4210 Metro Parkway, Suite 230, Fort Myers, FL 33916

**Phone:** 239.938.9618 **Fax:** 239.339.6418

**E-Mail** sciandraja@cdmsmith.com

**Print Name and Title of person authorized to bind:** Jason A. Sciandra, PE; Principal

**Federal Identification Number:** 04-2473650

**Signature:** 

Respondent shall submit proof that it is authorized to do business in the State of Florida unless registration is not required by law.

**(Please Check One)**

**Is this a Florida Corporation:**  Yes or  No

**If not a Florida Corporation,**  
In what state was it created: Massachusetts  
Name as spelled in that State: CDM Smith, Inc.

**What kind of corporation is it:**  "For Profit" or  "Not for Profit"

**Is it in good standing:**  Yes or  No

**Authorized to transact business in Florida:**  Yes or  No

State of Florida Department of State Certificate of Authority Document No.: 832235

**Does it use a registered fictitious name:**  Yes or  No

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

REQUEST FOR PROPOSAL NO. 2020-58  
PROFESSIONAL ENGINEERING SERVICES-CONTINUING SERVICES CONTRACTS FOR  
CITY OF NORTH PORT UTILITIES DEPARTMENT

**Names of Officers:**

**President:** Anthony B. Bouchard **Secretary:** Paul T. Milligan

**Vice President:** Thierry Desmaris **Treasurer:** Christopher R. Campbell

**Director:** Peter W. Tunncliffe **Director:** Mario Marcaccio

**Other:** Timothy B. Wall (CEO) **Other:** Jason Makofsky (Assistant Secret

**Name of Corporation (As used in Florida):**

CDM Smith, Inc.

(Spelled exactly as it is registered with the state or federal government)

**Corporate Address:**

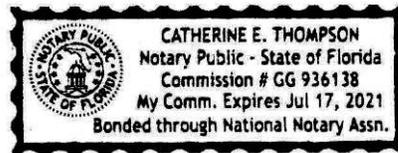
Post Office Box: N/A  
City, State Zip: N/A  
Street Address: 75 State Street, Suites 701  
City, State, Zip: Boston, MA, 02109

STATE OF FLORIDA  
COUNTY OF Orange

Sworn to (or affirmed) and subscribed before me by means of  physical presence or  online notarization, this 20  
day of July, 2020, by Jason A. Sciandra, PE; Principal.

Catherine E. Thompson  
Notary Public - State of Florida

Personally Known OR  Produced Identification  
Type of Identification Produced \_\_\_\_\_



**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**REFERENCES/CLIENT LISTING**

The firm shall provide a minimum of six (6) business related references for which they are currently providing or have provided within the last five (5) years, services similar to the scope of services required by this RFP. Of the six (6) references, please provide at least two (2) references for each of the following two disciplines: potable water treatment and wastewater treatment; and, provide at least one (1) reference for each of the following two disciplines: pipeline design and hydrogeology. If the firm has any indirect or direct potable reuse experience, please provide a reference. Attach additional sheets if necessary.

1. Business/Customer Name: City of Fort Myers

Name of Contact Person/Title: Heath Laufenberg; Interim WW Superintendent

Telephone# 239.321.7574 Fax 239.344.5941 E-mail hlaufenberg@cityftmyers.com

Address 1501 Raleigh Street, Fort Myers, FL 33902

Phone Number 239.321.7574 Discipline (circle): WTP; WWTF; pipeline; hydrogeo, potable reuse

Duration of Contract or business relationship Engineering consultant to the City for 28 years.

Type of Services Provided Miscellaneous engineering study, design, CEI, and consulting services at the City's WWTPs.

2. Business/Customer Name: Lee County Utilities

Name of Contact Person/Title: Lyssa Lott, Public Works Project Manager

Telephone# 239.533.8149 Fax 239.485.8845 E-mail llott@leegov.com

Address 1500 Monroe St. 3rd Floor, Fort Myers, FL 33901

Phone Number 239.533.8149 Discipline (circle): WTP; WWTF; pipeline; hydrogeo, potable reuse

Duration of Contract or business relationship Engineering consultant to the County for 13 years.

Type of Services Provided Design, permitting, and construction administration services for the WWTP upgrade to achieve a 6 mgd ADF.

3. Business/Customer Name: Pinellas County

Name of Contact Person/Title: Catherine Nguyen, Project Manager

Telephone# 727.464.7525 Fax N/A E-mail cnguyen@co.pinellas.fl.us

Address 22211 US Hwy 19 N, Clearwater, FL 33765

Phone Number 727.464.7525 Discipline (circle): WTP; WWTF; pipeline; hydrogeo, potable reuse

Duration of Contract or business relationship Engineering consultant to the County for 24 years.

Type of Services Provided Design, bidding, and construction phase services for modifications to the HSPS at the W

COMPANY NAME: CDM Smith, Inc.

SIGNATURE: 

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

REQUEST FOR PROPOSAL NO. 2020-58  
PROFESSIONAL ENGINEERING SERVICES-CONTINUING SERVICES CONTRACTS FOR  
CITY OF NORTH PORT UTILITIES DEPARTMENT

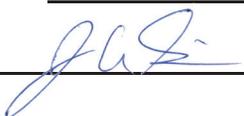
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4. Business/Customer Name: Tampa Bay Water  
Name of Contact Person/Title: Richard Menzies, PE; Project Supervisor  
Telephone# 727.796.2355 ext 2381 Fax N/A E-mail rmenzies@tampabaywater.org  
Address 8845 Pump Station Rd, Land O Lakes, FL 34639  
Phone Number 727.796.2355 ext 2381 Discipline (circle): WTP; WWTF; pipeline; hydrogeo, potable reuse  
Duration of Contract or business relationship Engineering consultant for Tampa Bay Water for 23 years.  
Type of Services Provided Design, bidding, and construction phase services for modifications to the HSPS at the WTP

5. Business/Customer Name: St. Johns County  
Name of Contact Person/Title: James Overton, Project Engineer  
Telephone# 904.209.2614 Fax 904.209.2615 E-mail joverton@sjcfl.us  
Address 1205 State Road 16, St Augustine, Florida 32084  
Phone Number 904.209.2614 Discipline (circle): WTP; WWTF; pipeline; hydrogeo, potable reuse  
Duration of Contract or business relationship Engineering consultant to the County for 28 years.  
Type of Services Provided Design and engineering services during construction for 14,000 lf reuse main and 8,000 lf force main.

6. Business/Customer Name: Cape Coral  
Name of Contact Person/Title: Jody Sorrels; Utilities Engineer (Civil Engineer II)  
Telephone# 239.471.6766 Fax 239.574.0855 E-mail JSorrels@CapeCoral.net  
Address 815 Nicholas Parkway East, Cape Coral, FL 33915-0027  
Phone Number 239.471.6766 Discipline (circle): WTP; WWTF; pipeline; hydrogeo, potable reuse  
Duration of Contract or business relationship Engineering consultant to the City for 27 years.  
Type of Services Provided Preliminary design, final design, and permitting services to construct a second Class I injection well.

COMPANY NAME: CDM Smith, Inc.

SIGNATURE: 

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**DRUG FREE WORKPLACE FORM**

The undersigned Consultant in accordance with Florida Statute 287.087 hereby certifies that CDM Smith, Inc. \_\_\_\_\_ does:

(Company Name)

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 bid 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 bid, 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 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.

**Check one:**

- As the person authorized to sign this statement, I certify that this firm complies fully with above requirements.
- As the person authorized to sign this statement, this firm **does not** comply fully with the above requirements.



**Offeror's Signature** Jason A. Sciandra, PE; Principal

July 20, 2020

**Date**

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**PUBLIC ENTITY CRIME INFORMATION**

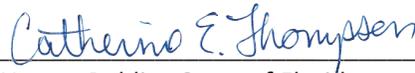
As provided by F.S. §287.133, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a Contractor, Supplier, Subcontractor, or Consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

I, Jason A. Sciandra, PE; Principal, being an authorized representative of the Respondent, CDM Smith, Inc., located at 4210 Metro Parkway, Suite 230  
City: Fort Myers State: FL Zip Code: 33916, have read and understand the contents above. I further certify that Respondent is not disqualified from replying to this solicitation because of F.S. §287.133.

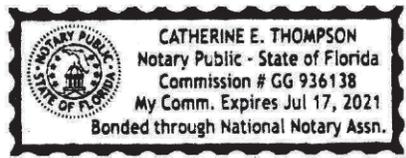
Signature:  Date: July 20, 2020  
Telephone #: 239.938.9618 Fax #: 239.339.6418  
Federal ID #: 04-2473650

STATE OF FLORIDA  
COUNTY OF Orange

Sworn to (or affirmed) and subscribed before me by means of  physical presence or  online notarization, this 20th day of July, 2020, by Jason A. Sciandra, PE; Principal.

  
Notary Public - State of Florida

Personally Known OR  Produced Identification  
Type of Identification Produced \_\_\_\_\_



**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**NON-COLLUSIVE AFFIDAVIT**

Before me, the undersigned authority, personally appeared:

Jason A. Sciandra, PE; Principal who, being first duly sworn, deposes and says that:

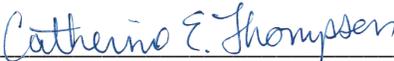
1. He/She is the Representative (Owner, Partner, Officer, Representative or Agent) of CDM Smith, Inc., the Respondent that has submitted the attached reply;
2. He/She is fully informed respecting the preparation and contents of the attached reply and of all pertinent circumstances respecting such reply;
3. Such reply is genuine and is not a collusive or sham reply;
4. Neither the said Respondent nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other respondent, firm, or person to submit a collusive or sham reply in connection with the work for which the attached reply has been submitted; or have in any manner, directly or indirectly sought by agreement or collusion, or communication or conference with any respondent, firm, or person to fix the price or prices in the attached reply or of any other respondent, or to fix any overhead, profit, or cost elements of the reply price or the reply price of any other respondent, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the reply work.

Signed, sealed and delivered this 20th day of July, 2020.

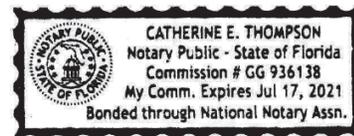
By:   
Jason A. Sciandra, PE  
(Printed Name)  
Principal  
(Title)

STATE OF FLORIDA  
COUNTY OF Orange

Sworn to (or affirmed) and subscribed before me by means of  physical presence or  online notarization, this 20th day of July, 2020, by Jason A. Sciandra, PE; Principal.

  
Notary Public - State of Florida

Personally Known OR  Produced Identification  
Type of Identification Produced \_\_\_\_\_



**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**LOBBYING CERTIFICATION**

"The undersigned hereby certifies, to the best of his or her knowledge and belief, that":

STATE OF Florida

COUNTY OF Lee

This 20th day July of 2017 2020

Jason A. Sciandra, PE; Principal, being first duly sworn, deposes and says that he or she is the authorized representative of CDM Smith Inc. (Name of the contractor, firm or individual), and that the vendor and any of its agents agree to have no contact or communication with, or discuss any matter related in any way to any active City of North Port solicitation, with any City of North Port elected officials, officers, their appointees or their agents or any other staff or outside individuals working with the city in respect to this request other than the designated Procurement Official Contact and to abide by the restrictions outlined in the General Terms and Conditions of the Solicitation. Technical questions directed to the project manager, is prohibited. These persons shall not be lobbied, either individually or collectively, regarding any questions for bid, proposal, qualification and/or any other solicitations released by the city. To do so is grounds for immediate disqualification from the selection process. The selection process is not considered final until such a time as the Commission has made a final and conclusive determination.

(a) No City appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence either directly or indirectly an officer or employee of the City, City Commission in connection with the awarding of any City Contract.

(b) If any funds other than City appropriated funds have been paid or will be paid to any person for influencing or attempting to influence a member of City Commission or an officer or employee of the City in connection with this contract, the undersigned shall complete and submit Standard Form-L "Disclosure Form to Report Lobbying", in accordance with its instructions.

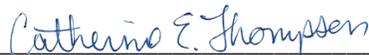
Signed, sealed and delivered this 20th day of July, **2020**.

By: 

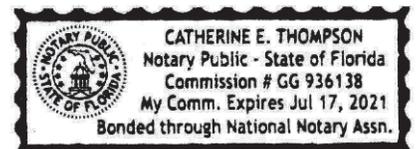
Jason A. Sciandra, PE  
(Printed Name)  
Principal

STATE OF FLORIDA  
COUNTY OF Lee

Sworn to (or affirmed) and subscribed before me by means of  physical presence or  online notarization, this 20th day of July, 2020, by Jason A. Sciandra, PE.

  
Notary Public - State of Florida

Personally Known OR  Produced Identification  
Type of Identification Produced \_\_\_\_\_



**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**CONFLICT OF INTEREST FORM**

F.S. §112.313 places limitations on public officers (including advisory board members) and employees' ability to contract with the City either directly or indirectly. Therefore, please indicate if the following applies:

**PART I.**

- I am an employee, public officer or advisory board member of the City  
\_\_\_\_\_ (List Position Or Board)
- I am the spouse or child of an employee, public officer or advisory board member of the City  
Name: \_\_\_\_\_
- An employee, public officer or advisory board member of the City, or their spouse or child, is an officer, partner, director, or proprietor of Respondent or has a material interest in Respondent. "Material interest" means direct or indirect ownership of more than 5 percent of the total assets or capital stock of any business entity. For the purposes of [§112.313], indirect ownership does not include ownership by a spouse or minor child.  
Name: \_\_\_\_\_
- Respondent employs or contracts with an employee, public officer or advisory board member of the City  
Name: \_\_\_\_\_
- None Of The Above

**PART II:**

Are you going to request an advisory board member waiver?

- I will request an advisory board member waiver under §112.313(12)
- I will NOT request an advisory board member waiver under §112.313(12)
- N/A

The City shall review any relationships which may be prohibited under the Florida Ethics Code and will disqualify any vendors whose conflicts are not waived or exempt.

**COMPANY:** CDM Smith, Inc. \_\_\_\_\_

**SIGNATURE:**  \_\_\_\_\_ Jason A. Sciandra, PE; Principal

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**DISCLOSURE FORM**  
**FOR**  
**CONSULTANT/ENGINEER/ARCHITECT**

Please select (only) one of the following three options:

Our firm has no actual, potential, or reasonably perceived, **financial\*** or **other interest\*\*** in the outcome of the project.

Our firm has a potential or reasonably perceived **financial\*** or **other interest\*\*** in the outcome of the project as described here: \_\_\_\_\_.

Our firm proposes to mitigate the potential or perceived conflict according to the following plan:  
\_\_\_\_\_.

Our firm has an actual **financial\*** or **other interest\*\*** in the outcome of the project as described here:  
\_\_\_\_\_.

**\*What does "financial interest" mean?**

If your firm, or employee of your firm working on the project (or a member of the employee's household), will/may be perceived to receive or lose private income depending on the government business choices based on your firm's findings and recommendations, this must be listed as a financial interest. An example would be ownership in physical assets affected by the government business choices related to this project. The possibility of contracting for further consulting services is not included in this definition and is not prohibited.

**\*\*What does "other interest" mean?**

If your firm, or employee of your firm working on the project (or a member of the employee's household), will/may be perceived to have political, legal or any other interests that will affect what goes into your firm's findings and recommendations, or will be/may be perceived to be affected by the government business choices related to this project, this must be listed as another interest.

**BUSINESS NAME:** CDM Smith, Inc

**NAME (PERSON AUTHORIZED TO BIND THE COMPANY):** Jason A. Sciandra, PE; Principal

**SIGNATURE:**  \_\_\_\_\_ **DATE:** July 20, 2020

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**Scrutinized Company Certification Form**

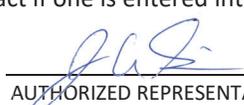
Company Name:	CDM Smith Inc.		
Authorized Representative Name and Title:	Jason A. Sciandra, PE; Principal		
Address:	4210 Metro Parkway, Suite 230	City: Fort Myers	State: FL ZIP: 33916
Phone Number:	239.938.9618	Email Address:	sciandraja@cdmsmith.com

A company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with the City of North Port for goods or services of any amount if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to Florida Statutes, section 215.4725, or is engaged in a boycott of Israel.

A company is ineligible to, and may not, bid on, submit a proposal for, or enter into or renew a contract with the City of North Port for goods or services of \$1 million or more if, at the time of bidding on, submitting a proposal for, or entering into or renewing such contract, the company is on the Scrutinized Companies with Activities in Sudan List, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Florida Statutes, section 215.473, or with companies engaged in business operations in Cuba or Syria.

**CHOOSE ONE OF THE FOLLOWING**

- This bid, proposal, contract or contract renewal is for goods or services of less than \$1 million. As the person authorized to sign on behalf of the above-named company, and as required by Florida Statutes, section 287.135(5), I hereby certify that the above-named company is not participating in a boycott of Israel.
- This bid, proposal, contract or contract renewal is for goods or services of \$1 million or more. As the person authorized to sign on behalf of the above-named company, and as required by Florida Statutes, section 287.135(5), I hereby certify that the above-named company is not participating in a boycott of Israel, is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, and it does not have business operations in Cuba or Syria.

I understand that pursuant to Florida Statutes, section 287.135, the submission of a false certification may result in the termination of the contract if one is entered into, and may subject the above-named company to civil penalties, attorney's fees and costs.	
Certified By:	
	AUTHORIZED REPRESENTATIVE SIGNATURE
Print Name and Title:	Jason A. Sciandra, PE; Principal
Date Certified:	July 20, 2020

Solicitation/Contract/PO Number (Completed by Purchasing): 2020-58

**THIS PAGE MUST BE SUBMITTED WITH PROPOSAL**

**END OF PART IV**



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by FEI/EIN Number](#) /

## Detail by FEI/EIN Number

Foreign Profit Corporation

CDM SMITH INC.

### Filing Information

<b>Document Number</b>	832235
<b>FEI/EIN Number</b>	04-2473650
<b>Date Filed</b>	04/23/1974
<b>State</b>	MA
<b>Status</b>	ACTIVE
<b>Last Event</b>	NAME CHANGE AMENDMENT
<b>Event Date Filed</b>	12/15/2011
<b>Event Effective Date</b>	NONE

### Principal Address

75 State Street  
#701  
Boston, MA 02109

Changed: 04/13/2015

### Mailing Address

75 State Street  
#701  
Boston, MA 02109

Changed: 04/13/2015

### Registered Agent Name & Address

C T CORPORATION SYSTEM  
1200 S PINE ISLAND RD  
PLANTATION, FL 33324

Address Changed: 10/17/2014

### Officer/Director Detail

#### **Name & Address**

Title CEO

Wall, Timothy B  
75 State Street  
#701

Boston, MA 02109

Title President

Bouchard, Anthony  
75 State Street  
#701  
Boston, MA 02109

Title Director

Desmaris, Thierry  
75 State Street  
#701  
Boston, MA 02109

Title Assistant Secretary

Makofsky, Jason  
75 State Street  
#701  
Boston, MA 02109

Title Director

Tunncliffe, Peter W  
75 State Street  
#701  
Boston, MA 02109

Title Treasurer

Campbell, Christopher  
75 State Street  
#701  
Boston, MA 02109

Title Secretary

Milligan, Paul T  
75 State Street  
#701  
Boston, MA 02109

Title Director

Marcaccio, Mario  
75 State Street  
Suite 701  
Boston, MA 02109

**Annual Reports**

**Report Year      Filed Date**

2018 03/07/2018  
 2019 02/21/2019  
 2020 02/20/2020

### Document Images

<a href="#">02/20/2020 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">02/21/2019 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">12/17/2018 -- AMENDED ANNUAL REPORT</a>	View image in PDF format
<a href="#">03/07/2018 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/05/2017 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/11/2016 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">04/13/2015 -- AMENDED ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/12/2015 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">10/17/2014 -- Reg. Agent Change</a>	View image in PDF format
<a href="#">07/29/2014 -- AMENDED ANNUAL REPORT</a>	View image in PDF format
<a href="#">02/25/2014 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">09/11/2013 -- AMENDED ANNUAL REPORT</a>	View image in PDF format
<a href="#">03/04/2013 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">03/19/2012 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">12/15/2011 -- Name Change</a>	View image in PDF format
<a href="#">01/31/2011 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/13/2010 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">05/26/2009 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/13/2009 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/03/2008 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/04/2007 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">04/06/2006 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/10/2005 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/26/2004 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">12/11/2003 -- Merger</a>	View image in PDF format
<a href="#">01/16/2003 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/17/2002 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">01/30/2001 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">04/12/2000 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">03/29/1999 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">04/21/1998 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">05/06/1997 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">05/01/1996 -- ANNUAL REPORT</a>	View image in PDF format
<a href="#">02/14/1995 -- ANNUAL REPORT</a>	View image in PDF format

## Licenses

We have included firm and personnel license information in the table below.

Name	Role	License Number
<b>CDM Smith</b>		FL – PE CA20; FL – PG GB422; FL – AIA AA0002781
Jason A. Sciandra, PE	Principal-In-Charge	FL – PE 68324
Patrick R. Victor, PE, DWRE	Contract Manager	FL – PE 50112
Rajendra (Raj) D. Vaidya, PhD, PE, PMP, BCEE	Project Manager	FL – PE 70770
Craig C. Montgomery, PE	Quality Control/Technical Reviews	FL – PE 45953
Stewart J. Magenheimer, PG, PMP	Quality Control/Technical Reviews	FL – PG1168
Brian M. Karmasin, PE, BCEE	Water, Wastewater, Reclaimed Water Treatment and Storage Systems; Water, Wastewater, and Reclaimed Water Planning	FL – PE 59381
David MacNevin, PhD, PE, LEED AP	Water, Wastewater, Reclaimed Water Treatment and Storage Systems	FL – PE 72215
Jorge M. Arevalo, PhD, PE	Water, Wastewater, Reclaimed Water Treatment and Storage Systems	FL – PE 73012
Karen R. Lowe, PE, PMP	Water, Wastewater, Reclaimed Water Treatment and Storage Systems	FL – PE 73852
Sirwan Alimoradi, PhD, PE*	Water, Wastewater, Reclaimed Water Treatment and Storage Systems	MI – PE 6201068747
Gregory D. Wetterau, PE*, BCEE	Water, Wastewater, Reclaimed Water Treatment and Storage Systems	CA – PE 77978
Gregory T. Isaacs, PE	Water, Wastewater, Reclaimed Water Treatment and Storage Systems	FL – PE 78900
Travis Meyer, PE	Water, Wastewater, Reclaimed Water Treatment and Storage Systems	MT– PE 18808
Charles B. Thaggard, PE	Water, Wastewater, Reclaimed Water Treatment and Storage Systems; Stormwater/Civil Site	FL – PE 82431
Isaac D. Holowell, PE	Water, Wastewater, and Reclaimed Water Conveyance Systems; Water, Wastewater, and Reclaimed Water Planning	FL – PE 83413
Marc C. Stonehouse, PE	Water, Wastewater, and Reclaimed Water Conveyance Systems	FL – PE 68858
Clay M. Tappan, PE, BCEE	Water, Wastewater, and Reclaimed Water Conveyance Systems	FL – PE 42772
Stephen L. Whiteside, PE	Geotechnical	FL – PE 55002
Lee P. Wiseman, PE, BCEE	Water, Wastewater, and Reclaimed Water Planning	FL – PE 43448
Carl S. Frizzell, PhD, PE	Water, Wastewater, and Reclaimed Water Planning	FL – PE 67560
Vipin Pangasa, PE, PMP, BCEE	Water, Wastewater, and Reclaimed Water Planning	FL – PE 52737

Tab 9: Submission Requirements and Required Submittal Forms

Name	Role	License Number
David J. Prah, PE, BCEE	Water, Wastewater, and Reclaimed Water Planning	FL – PE 43393
Michael J. Graham, PE	Electrical and Instrumentation/Controls	FL – PE 71194
Cynthia L. Stellmack, PE	Electrical and Instrumentation/Controls	FL – PE 37972
W. Scott Whitmore, PE	Electrical and Instrumentation/Controls	FL – PE 58215
James T. Wittig, PE	Stormwater/Civil Site	FL – PE 48261
Kevin M. Francoforte, PE	Structural	FL – PE 73949
George E. Reilly, PE	Construction Administration	FL – PE 36158
Michael T. Alford, AIA, LEED® AP BD+C	Architectural	AIA – AR92055
Craig A. Gadberry, PE	Alternative Project Delivery and Cost-Estimating	FL – PE 55988
Brendan V. Brown, PWS	Environmental Wetlands and Protected Species	FL – PWS 2288
<b>AIM Engineering &amp; Surveying, Inc.</b>	Mapping, Survey and SUE	FL – PE CA3114 FL – PSM LB3114
<b>YPC Consulting Group, P.L.</b>	Geotechnical	FL – PE CA28233



# CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)  
12/27/2019

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> Aon Risk Services Northeast, Inc. Boston MA Office 53 State Street Suite 2201 Boston MA 02109 USA	<b>CONTACT NAME:</b> PHONE (A/C. No. Ext): (866) 283-7122      FAX (A/C. No.): 800-363-0105		
	<b>E-MAIL ADDRESS:</b>		
<b>INSURED</b> CDM Smith Inc. 75 State Street, Suite 701 Boston MA 02109 USA	<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
	INSURER A: LM Insurance Corporation		33600
	INSURER B: Liberty Insurance Corporation		42404
	INSURER C: Liberty Mutual Fire Ins Co		23035
	INSURER D: ACE Property & Casualty Insurance Co.		20699
	INSURER E: Lloyd's Syndicate No. 2623		AA1128623
INSURER F: Commerce & Industry Ins Co		19410	

Holder Identifier :

**COVERAGES**      **CERTIFICATE NUMBER: 570079833915**      **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. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:			TB7611B8T8Z6040	01/01/2020	01/01/2021	EACH OCCURRENCE	\$2,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$1,000,000
							MED EXP (Any one person)	\$10,000
							PERSONAL & ADV INJURY	\$2,000,000
							GENERAL AGGREGATE	\$4,000,000
							PRODUCTS - COMP/OP AGG	\$4,000,000
C	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS ONLY			AS2-611-B8T8Z6-060	01/01/2020	01/01/2021	COMBINED SINGLE LIMIT (Ea accident)	\$2,000,000
							BODILY INJURY (Per person)	
							BODILY INJURY (Per accident)	
							PROPERTY DAMAGE (Per accident)	
D	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED    RETENTION			XEUG28194687004	01/01/2020	01/01/2021	EACH OCCURRENCE	\$5,000,000
							AGGREGATE	\$5,000,000
A	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WA561DB8T8Z6010 AOS WC5611B8T8Z6020 WI	01/01/2020	01/01/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER	
A					01/01/2020	01/01/2021	E.L. EACH ACCIDENT	\$1,000,000
							E.L. DISEASE-EA EMPLOYEE	\$1,000,000
							E.L. DISEASE-POLICY LIMIT	\$1,000,000
F	Env Contr Poll			CP01213030 Pollution Liab.	01/01/2020	01/01/2022	Each Loss Aggregate	\$30,000,000 \$30,000,000

Certificate No : 570079833915

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 Re: Proposal Use Only.

<b>CERTIFICATE HOLDER</b>  CDM Smith Inc. 75 State Street, Suite 701 Boston MA 02109 USA	<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  
--	--





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Smith**<sup>®</sup>  
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