



QUALIFICATIONS | RFQ #3092-18

Professional Engineering Services for Large Utilities Capital Projects

November 21, 2018

King
ENGINEERING ASSOCIATES, INC.



1. Letter of Interest

November 20, 2018

City of Venice
Venice City Hall
Purchasing Department Room 204
401 West Venice Avenue
Venice, FL 34285

RE: Request for Qualifications 3092-18
Professional Engineering Services for Large Utilities Capital Projects

Dear Selection Committee:

It is with great pleasure that King Engineering Associates, Inc. (King) submits our qualifications in response to the City's Request for Professional Engineering Services for Large Utilities Capital projects. The attached statement of qualifications details our proposed staff, qualifications, experience and references for similar, successfully completed work.

For the past 8 years, King has been a proud partner in the City's continuing program to improve and upgrade its utilities systems and level of service to its customers, and we are requesting to continue to be part of that program by being considered for the following utilities capital projects:

- **Project 1:** Bay Indies Utility Relocations Phases 1 and 2
- **Project 3:** Water System Improvements; Phase 1, New Water Booster Station, Ground Storage Tank and Regional Emergency Interconnection
- **Project 4:** Eastgate Utilities Relocation Phases 2 and 3
- **Project 5:** Water Main Replacements Phases 7 and 8

A Team You Know and Trust! We are proposing the same, qualified local team of professionals who have been directly responsible for the successful delivery of the City's utilities engineering projects over the past 8 years to leverage our first-hand experience with the City's utility systems and staff and to continue to demonstrate our long-standing commitment to the City's success. In fact, our team now has more resources than when we first started working for the City and, over the past 18 months, we've grown to 350+ employees in 20+ offices across the country. As part of integrating our growing organization, we will be changing our name to the Ardurra Group in the upcoming months. It's just a name change and will not involve any transfer of ownership, change in corporate structure or change in our tax identification number. Legally, we will remain the same King Engineering submitting this proposal and under contract and working for you.

Organized for Efficient and Timely Delivery of Your Projects. We have organized our team so that each project will be led and managed by a locally recognized expert who has received high marks for the successful delivery of similar projects. Each Project Manager is supported by a team of engineers selected for their extensive experience and working with one another on similar projects, including City projects. This streamlined approach ensures that we have the proper resources to execute each project fully, while delivering a quality product and meeting each of the City's goals in a timely and cost-effective manner.

Thank you for considering our proposal and for all the opportunities you have provided us over the years. We look forward to continuing to be part of the City's success!

Sincerely,



Chris Kuzler, PE
Managing Principal



2. Project team organization chart, resumes, and key personnel experience

Section 2

PROJECT TEAM, ORGANIZATION & KEY PERSONNEL EXPERIENCE

Over the past several years, the City of Venice has implemented a number of innovative programs to improve and upgrade its utilities systems and King Engineering Associates, Inc. (King) is proud to have been part of that effort! We are even more excited about this opportunity to continue to be involved with these programs and ask that the City consider us for the following four projects as listed in your Request for Qualifications:

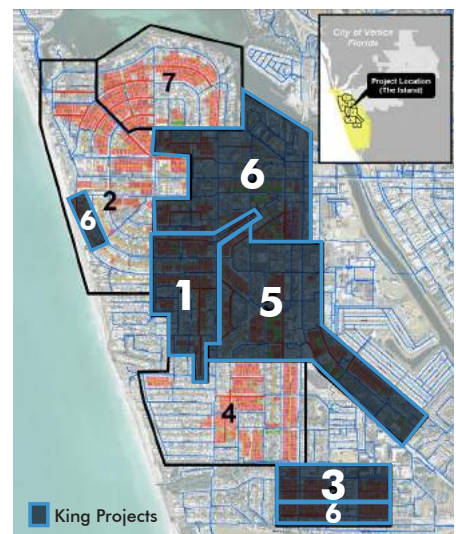
- **Project 1:** Bay Indies Utility Relocations Phases 1 and 2
- **Project 3:** Water System Improvements; Phase 1, New Water Booster Station, Ground Storage Tank and Regional Emergency Interconnection
- **Project 4:** Eastgate Utilities Relocation Phases 2 and 3
- **Project 5:** Water Main Replacements Phases 7 and 8

Why are we excited about the City's proposed projects?

- ✓ Utility improvement projects provide us the opportunity to improve the quality of life of your residents, which is the primary goal of our vocation as Water/Wastewater engineers!
- ✓ Working on the City's utility projects over the past eight (8) years has been an enjoyable and successful experience and we look forward to continuing our relationship!
- ✓ The projects proposed by the City are EXACTLY what we do and we are able to offer a team of very qualified, local and in-house individuals who have been providing identical services to the City and other local municipalities!
- ✓ **We know we can successfully complete these projects and meet your goals in a timely and cost-effective manner because we've done it before and are doing it now!**

Our proposed team has enjoyed a long, successful history of partnering with the City of Venice on its utilities engineering projects and has been part of the continued evolution of the City's design standards and program goals. Projects have included:

- **Water Main Replacement Program, Phase 1** – The first project implemented under the City's program to eliminate rear lot water mains on "the island". As the first project, King had the opportunity to work with the City and develop design standards and approaches and to understand and develop solutions for the nuances associated with working on private property.
- **Water Main Replacement, Phase 3** – During this phase of the Program, King had the opportunity to work with the City and develop a means of implementing the first generation of the City's revised Backflow Prevention Program.
- **Water Main Replacement, Phase 5** – This phase of the program is currently in construction and introduced the first



relocation of water mains associated with commercial properties, including fire services. In addition, the level of detail in the design was increased to include showing the routes of services on private property and developing unit price bid items for restoration on private property.

- **Water Main Replacement, Phase 6** – This phase of the program is currently in the final stages of design and, as the latest project in the Program, includes the most up-to-date design standards and City preferences.

Reclaimed Water Distribution System Improvements – This project closed several loops in the City's reclaimed water system and replaced non-functioning valves and air release valves. Working with the City, King developed a detail for new air release valve man-holes that allows for better access and ease of maintenance. The project also included several long and relatively complex horizontal directional drills.

Intracoastal Waterway Force Main Replacement – This very successful project involved a horizontal directional drill of a new 16-inch subaqueous force main across the intracoastal waterway at the Venice Avenue Bridge.

Cast Iron Water Main Replacement Program, Phase 1 – King performed GIS analyses and mapping services to assist the City with determining the remaining amount of unlined cast iron and galvanized water main throughout the City, and also developed a report summarizing technologies currently available to assess the condition of the pipe. This assignment gave us the opportunity to become very familiar with the City's water system.



Reclaimed water Main Distribution System Improvements



Intracoastal Force Main Replacement



King Engineering Associates, Inc.
City of Venice
Water / Wastewater / Reuse
System Projects

- Intracoastal Waterway Force Main Replacement Project
- Reclaimed Water Main Distribution System Improvements
- Cast Iron Water Main Assessment Program - Phase 1
- Water Main Replacement Program Phases 1,3,5 and 6



In addition to our experience with the City's utility systems, we have recently assisted other local municipalities with projects identical to those proposed by the City. Many of these projects were located in congested residential neighborhoods and involved work on private property. As a result, our team understands the nuances that these types of projects can present such as minimization of disruption to residents; traffic, safety, dust and noise control; access for emergency, postal and trash collection vehicles; and public relations.

Below is a listing of projects similar to the City's proposed Bay Indies, Eastgate and Water Main Replacement projects. All King team members have been personally involved with King's projects listed in this proposal.

KING'S TEAM MEMBER EXPERIENCE WITH SIMILAR PROJECTS													
PROJECTS	Elements Similar to the City's Utility Relocations and Water Main Replacements Projects												
	Studies	Design	Permitting	Water Mains	Wastewater Collection / Force Mains	New Water Services / Sewer Laterals	Lift Stations	Residential / Commercial Neighborhoods Abandonment of Old Mains	Public Involvement	Grant Assistance/Funding	Bidding Services	Construction Services	Survey / SUE/Geotechnical
Venice Water Main Replacements Ph 1, 3, 5, & 6		X	X	X		X		X	X	X	X	X	X
Clearwater Septic to Sewer Program	X	X	X	X	X	X		X	X	X	X	X	X
Tarpon Springs Sanitary Sewer Expansions-Ph 3	X	X	X	X	X	X		X			X	X	X
Seagate Sanitary Sewer System Replacement	X	X	X		X	X		X	X	X	X	X	X
City of Sarasota Water Main Replacements / Bahia Vista Street and Orange Ave	X	X	X	X		X		X	X	X	X	X	X
Dunedin Causeway Water Main & Force Main Replacements	X	X	X	X	X			X	X	X	X	X	X
Safety Harbor Water Main Replacements		X	X	X	X	X		X	X		X		X
Safety Harbor North Bayshore Dr. Sanitary Sewer Force Main Replacements		X	X		X	X		X	X		X		X
Redington Beach Lift Stations 76,77, and 78 Rehabilitation Projects	X	X	X		X		X	X			X	X	X
Lake Avenue Lift Station and Force Main	X	X	X		X	X	X	X			X	X	X
Wet Weather Force Mains/Pump Stations and Monitoring System	X	X	X		X		X	X	X	X	X	X	X



City of Clearwater
Septic to Sewer Program



Dunedin Water
Main /Force Main
Replacement Program



Redington Beach
Pump Stations 76, 77
& 78 Rehabilitations



Safety Harbor Water
Main Replacements

In addition to the Bay Indies, Eastgate and Water Main Replacement utility projects, the City is seeking an engineering firm for Phase 1 of the Water System Improvement project which involves the design, permitting, and construction services for a new water booster pump station, two 2 MG ground storage tanks and an interconnect with the regional water system. The King team has designed a number of new water booster pump stations and ground storage tanks that are very similar to the City's proposed project and, as part of our work with the Peace River/Manasota Regional Water Supply Authority, we have designed and

constructed a number of interconnects between Sarasota, DeSoto and Charlotte County's, and the Cities of North Port and Punta Gorda's, water systems and the regional system. Notable projects have included:



*Dunedin Belcher Road
Reclaimed Water Storage
and Booster Station*

The **Belcher Road Reclaimed Water Storage and Booster Pump Station** included a 2 MG ground storage tank and a 10 MGD re-pump station, metering facilities and SCADA in a residential neighborhood. The facility was constructed adjacent to several residential communities and required coordination with the Homeowners' Associations in order to make efforts to match the appearance of adjacent buildings.



*Pasco County
Southeast WTP*

The **Southeast and Southwest Water Treatment Plants** included a new 14 MGD WTP and storage and pumping facility in south-east Pasco County and a 4.0 MG water storage tank, and 3.75 MGD pumping station in southwest Pasco County. The tank at the Southwest facility was constructed underground in order to appease concerns in the mostly residential neighborhood.



*Pinellas County Logan
Booster Pump Station*

Pinellas County's **Logan Booster Pump Station Modifications** included a new 30 MGD potable water re-pump systems, a 3,200 sf pump building and electrical room, yard piping and valves, metering, PLC and SCADA upgrades and instrumentation and electrical system modifications. Timing and coordination played key roles during construction, as the existing pump station had to remain in service for the duration. Planning and communication helped reduce the number of 24-hour shutdowns to two.



*Pasco County
Boyette Road Water
Treatment Plant*

Pasco County's **Boyette Water Treatment Plant** included a 5 MG ground storage tank, a 3.6 MGD potable water booster station and sodium hypochlorite and ammonia storage and feed systems.



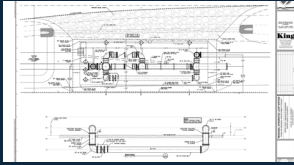
*Peace River Regional
Loop Phase 2
Meter Station*

The **Phase 2 Regional Loop Interconnect Project** for the Peace River/Manasota Regional Water Supply Authority (PRMRWSA) included 7 miles of 42-inch water main, two interconnects and SCADA/metering facilities with the City of North Port's water system and one interconnect and SCADA/metering facility with Charlotte County's water system.



*Peace River Regional
Loop Interconnect
Phase 1*

The **Phase 1 Regional Loop Interconnect Project** for the PRMRWSA includes 6 miles of 24-inch water main, an interconnect and SCADA/metering facilities with DeSoto County's water system at the existing DeSoto County South Booster Pump Station and one interconnect and SCADA/metering facility with the City of Punta Gorda's water system.



Peace River Regional
Loop Phase 3B Control
Valve Assembly

The **Phase 3B Regional Loop Interconnect Project** for the PRMRWSA includes 6 miles of 48-inch water main, and an interconnect and SCADA/metering facility with Sarasota County's water system. This project extends the Authority's existing transmission system north of **Knights Trail Road** and included a conceptual design for a storage and booster station at a future Sarasota County interconnect.

Our experience with these projects has tremendous value to the City's upcoming projects. We understand the challenges and nuances the City's projects may present and how to effectively, and efficiently navigate through them. **There will be no learning curve. No wasted time. We have done it before –and we have done it well!**

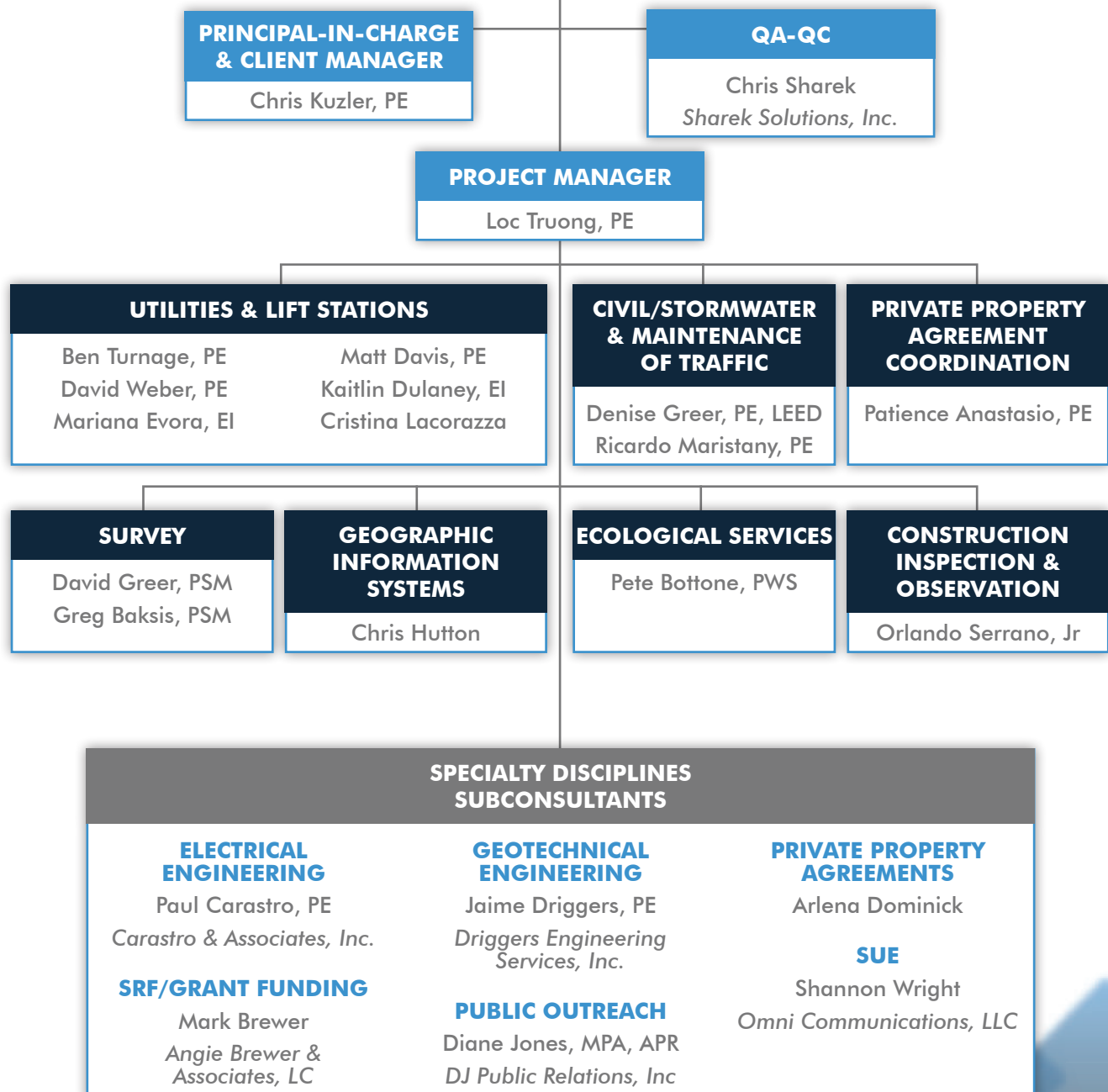
Team Organization

A TEAM YOU KNOW AND TRUST!

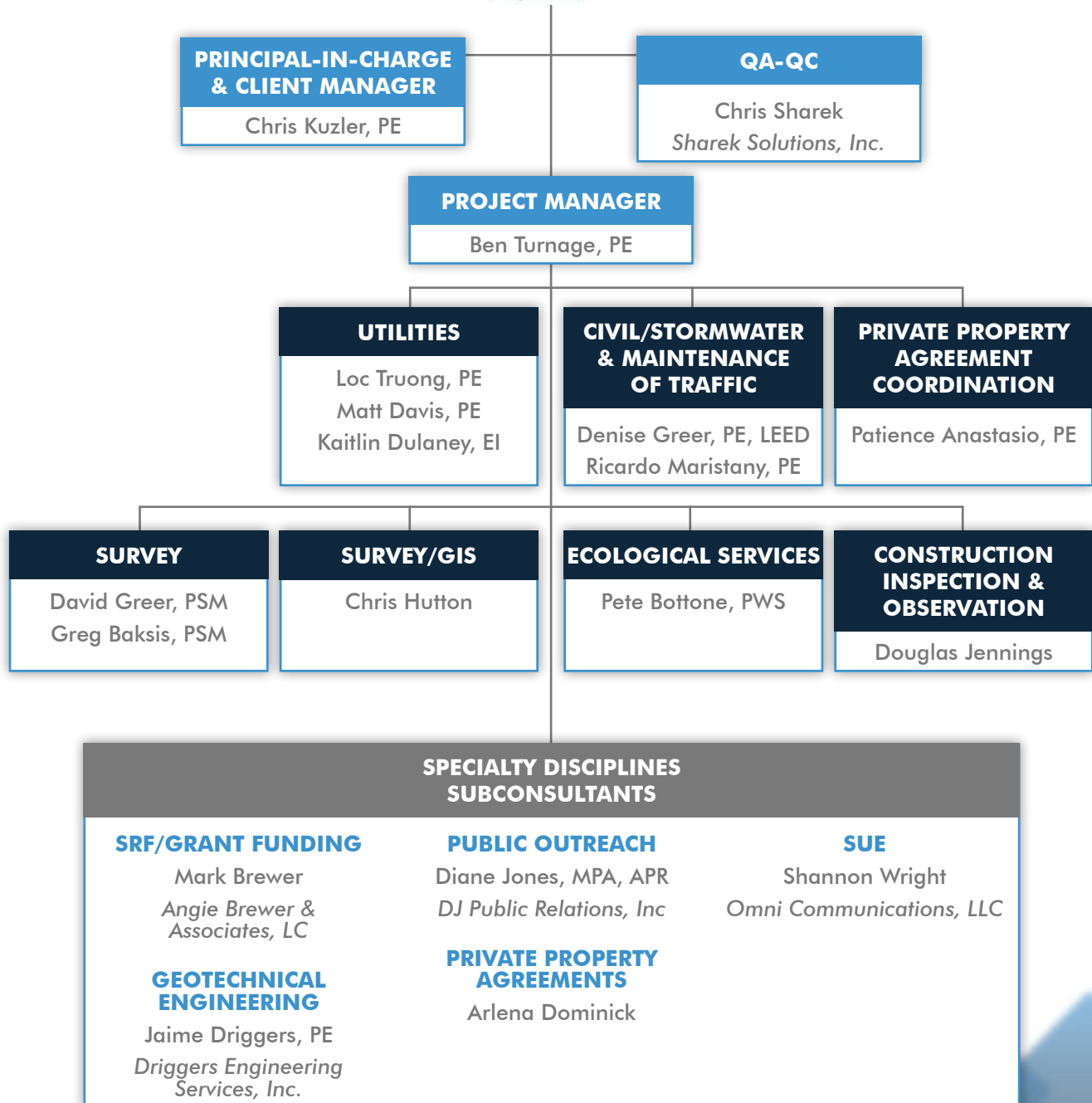
We are proposing the same, qualified local team of professionals who have been directly responsible for the successful delivery of the City's utilities engineering projects over the past 8 years in order to leverage our first-hand experience with the City's utility systems and staff and to continue to demonstrate our long standing commitment to the City's success. In fact, our team now has more resources than when we first started working for the City and, over the past 18 months we've grown to 350+ employees in 20+ offices across the country. As part of integrating our growing organization, we will be changing our name to the Ardurra Group in the upcoming months. It's just a name change and will not involve any transfer of ownership, change in corporate structure or change in our tax identification number. Legally, we will remain the same King Engineering submitting this proposal and under contract and working for you.

As you will see in the organization charts on the following pages, we have more than enough local, qualified staff and are **able to assign different Project Managers, Lead Design Engineers and Construction Field Representatives to each of the projects for which we are asking to be considered**, all of which will be supported by a team of local and skilled designers and support disciplines with a wide range of water, wastewater and reclaimed water experience. This is a testimony to King's depth of local resources and our availability to give your projects the attention they deserve!

CITY OF VENICE
 RFQ #3092-18
 Bay Indies Relocation, Phases 1 and 2



CITY OF VENICE
 RFQ #3092-18
 Eastgate Utilities Relocation, Phases 2 and 3



CITY OF VENICE

RFQ #3092-18

Water System Improvements Phase 1 (New Water Booster Station, Ground Storage Tank & Regional Emergency Interconnection)**PRINCIPAL-IN-CHARGE
& CLIENT MANAGER**

Chris Kuzler, PE

QA-QCChris Sharek
Sharek Solutions, Inc.**PROJECT MANAGER**

Tom Traina, PE

**BOOSTER STATION/
INTERCONNECT**Loc Truong, PE
Lizeth Mora, EI
David Weber, PE
Sharmeela Khemlani, EI**CIVIL/STORMWATER
& MAINTENANCE
OF TRAFFIC**Denise Greer, PE, LEED
Ricardo Maristany, PE**CONSTRUCTION
INSPECTION &
OBSERVATION**

Brett Meyer

SURVEYDavid Greer, PSM
Greg Baksis, PSM**ECOLOGICAL SERVICES**

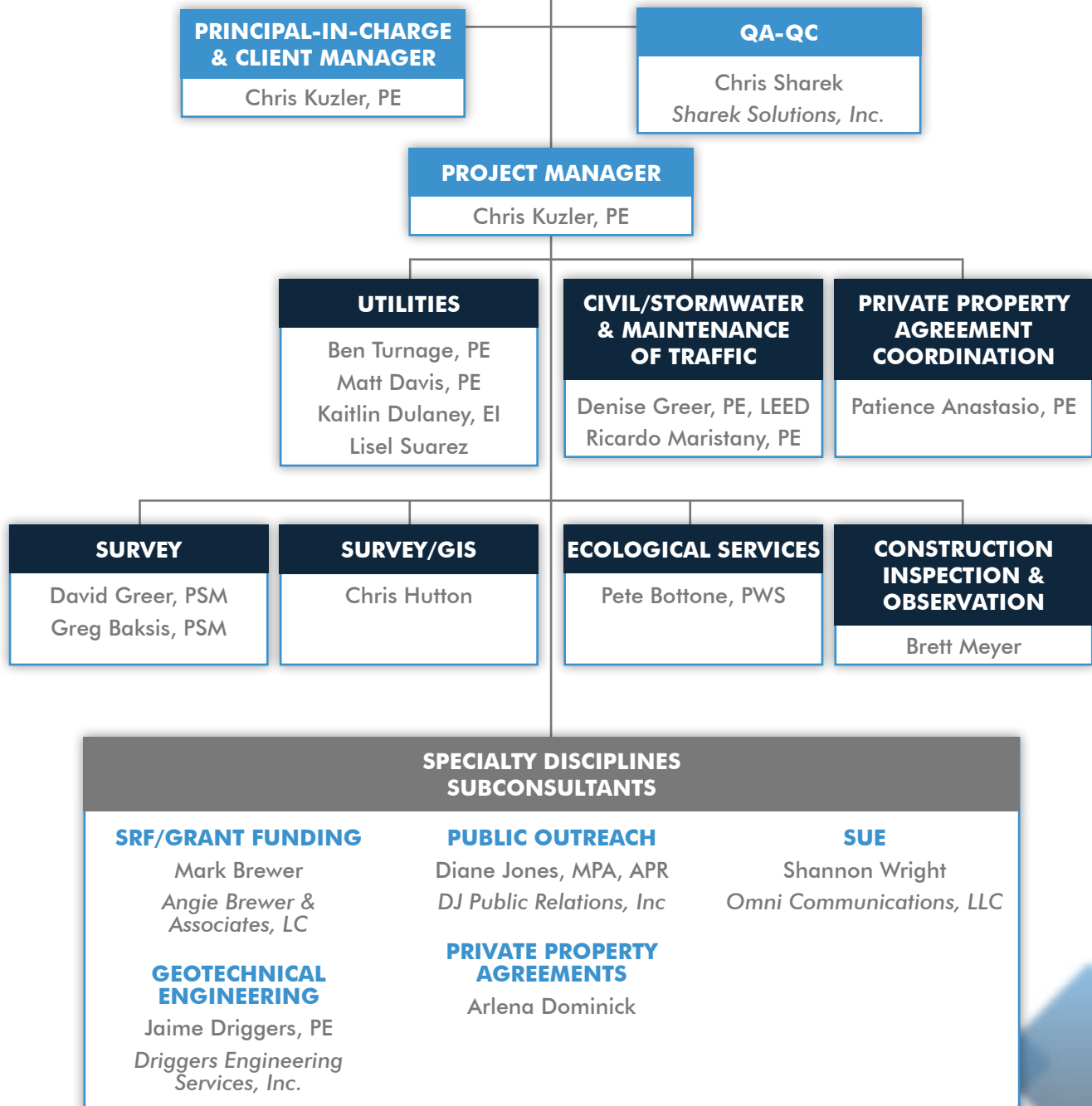
Pete Bottone, PWS

RE-ZONING

Cynthia Spidell, AICP

**SPECIALTY DISCIPLINES
SUBCONSULTANTS****STRUCTURAL ENGINEERING**John Sobczak, PE
Wekiva Engineering, LLC**SRF/GRANT FUNDING**Mark Brewer
Angie Brewer & Associates, LC**PUBLIC OUTREACH**Diane Jones, MPA, APR
DJ Public Relations, Inc**GEOTECHNICAL
ENGINEERING**Jaime Driggers, PE
Driggers Engineering
Services, Inc.**ELECTRICAL ENGINEERING**Paul Carastro, PE
Carastro & Associates, Inc.**SUE**Shannon Wright
Omni Communications, LLC

CITY OF VENICE
 RFQ #3092-18
 Water Main Replacement Phases 7 and 8



Highlights of Key Personnel Qualifications and Experience

The professionals that comprise our team were carefully selected by matching their technical qualifications and leveraging their past experience completing similar work for the City of Venice and other Florida governments. Below are highlights of their qualifications and experience as it relates to the City's proposed projects.



CHRIS KUZLER, PE – 33 Years of Experience/26 Years with King

ROLE: Principal-in-Charge & Client Manager for all projects/Project Manager for Water Main Replacement 7 & 8

RESPONSIBILITIES: As Principal-in-Charge and Client Manager, Chris will be the point of contact for the City for all projects throughout their duration and will assure that adequate resources are assigned to each project. As Project Manager for the Water Main Replacement Phases 7 and 8 project, he will oversee all facets of design, permitting and construction services and will coordinate and manage all subconsulting services for the project.

HIGHLIGHTS OF QUALIFICATIONS / EXPERIENCE:

- Chris has been serving as Client Manager for all of King's City of Venice assignments since 2010, ensuring the City receives the proper level of service and resources necessary for timely, quality deliverables. He has also served as Project Manager and Engineer-of-Record for Phases 1,3, 5 and 6 of the Water Main Replacement Program, the City's Reclaimed Water Distribution System Improvements Project and the Cast Iron Water Main Replacement Program, Phase 1. As such, he is more than familiar with the City's utilities, staff, design preferences and methods of project execution.
- Chris has also served as Principal-in-Charge and/or Project Manager for all of King's similar projects completed for other local municipalities including sanitary sewer systems in Clearwater and Tarpon Springs, booster pump stations for Pinellas County and regional water system interconnects for the Peace River/Manasota Regional Water Supply Authority.



CHRIS SHAREK - 22 Years of Experience (Sharek Solutions, Inc.)

ROLE: Quality Assurance / Control Officer for all projects

RESPONSIBILITIES: Perform peer reviews, quality assurance, constructability and QA/QC reviews of work products. Given his relationship with the City and its staff, Chris will also assist Mr. Kuzler with interfacing with the City to ensure that all project goals are being met.

Chris is President of Sharek Solutions, Inc. located in Sarasota, FL. He has over 20 years of engineering experience in southwest Florida including design, construction oversight, and ownership and maintenance responsibilities of potable, wastewater, and reclaimed water systems.

HIGHLIGHTS OF QUALIFICATIONS / EXPERIENCE:

- Chris was the Utilities Manager for the City of Venice. Prior to his role as Utilities Manager, he was the Assistant City Engineer. Through these roles, Chris was responsible for technical design, permitting, and construction observation for utility relocations, paving, and stormwater improvement projects.
- He has served as Program and Client Manager for improvements to multiple booster stations and force main projects for the City of North Port and Sarasota County.
- With his City of Venice utilities engineering and management experience, he offers valuable knowledge and insight to the City's utility systems.



LOC TRUONG, PE – 17 Years of Experience/14 Years with King

ROLE: Project Manager for the Bay Indies project. Process Design Lead Engineer for Eastgate Utilities Relocation Phases 2 & 3 and Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection.

RESPONSIBILITIES: As Project Manager, Loc will serve as Engineer-of-Record manage and will oversee all facets of design, permitting and construction services. As Design Lead Engineer, Loc will work with other Project Managers and design team members performing design calculations, developing drawings and specifications and providing startup and commissioning services.

HIGHLIGHTS OF QUALIFICATIONS / EXPERIENCE:

- Project Manager and Engineer-of-Record for the City's Intracoastal Waterway Force Main Replacement Project.
- Extensive experience with the design, permitting and construction of sanitary sewer systems in existing residential neighborhoods, including the abandonment of septic tanks and the construction of new sanitary sewer laterals on private property.
- Served as Project Manager and Engineer-of-Record for several large scale potable water storage and booster pump station improvements in Pinellas County.
- Loc is a **dual licensed Florida Professional Engineer and a Licensed Water Treatment Plant Operator**, bringing a depth of understanding of overall water systems – from the water source to the tap.



TOM TRAINA, PE - 40 Years of Experience/18 Years with King

ROLE: Project Manager for Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection.

RESPONSIBILITIES: Manage and oversee all facets of design, permitting and construction services. He will coordinate and manage all subconsulting services for this project. He will serve as Engineer-of-Record and assist with startup and commissioning of the booster pump station.

HIGHLIGHTS OF QUALIFICATIONS / EXPERIENCE:

- Project Manager and Engineer-of-Record for the Peace River/Manasota Regional Water Supply Authority's Phase 1, Phase 2 and Phase 3B Integrated Regional Loop projects including six (6) interconnects and metering/SCADA facilities with other local water systems.
- Served as Project Manager and Engineer-of-Record for several large scale potable and reclaimed water storage and booster pump station projects in Pasco County.
- Technical expertise in a broad range of utilities and water/wastewater treatment projects.


BEN TURNAGE, PE – 17 Years of Experience/14 Years with King

ROLE: Project Manager for Eastgate Utility Relocations Phases 2 and 3. Lead Design Engineer for Bay Indies Utility Relocations Phases 1 & 2 and Water Main Replacement, Phases 7 and 8.

RESPONSIBILITIES: As Project Manager, Ben will serve as Engineer-of-Record manage and will oversee all facets of design, permitting and construction services. As Design Lead Engineer, he will work with other Project Managers and design team members performing design calculations and developing drawings.

HIGHLIGHTS OF QUALIFICATIONS / EXPERIENCE:

- Specializes in difficult installations within congested residential neighborhoods, along major roadway corridors and pedestrian facilities/trails in limited available ROW space, across open stormwater ditches, crossing CSX Railroad tracks and rivers.
- Project Manager for all of King's assignments issued by Hillsborough County through a Miscellaneous Utility Relocations contract held by King since 2008 and for the City of Largo's utility relocations located along 9.75 miles of Ulmerton Road, a highly congested and trafficked corridor.
- Project Manager and Engineer of Record for the expansion of the City of Largo's sewer system into several neighborhoods including two lift stations. Also served as Project Manager and Engineer of Record for 7 miles of new force mains and the upgrade of four (4) major lift stations in existing neighborhoods as part of the City's Wet Weather Force Main project.


PATIENCE ANASTASIO, PE - 11 Years of Experience / 5 Years with King

ROLE: Private Property Agreement Coordination for Bay Indies Utility Relocations Phases 1 & 2, Eastgate Utility Relocations Phases 2 & 3, and Water Main Replacements, Phase 7 and 8

RESPONSIBILITIES: Patience will provide a range of engineering services for the utilities projects and will oversee coordination regarding private property agreements.

HIGHLIGHTS OF QUALIFICATIONS / EXPERIENCE:

- As Project Engineer for the City's Water Main Replacement Program Phases 1, 3, 5 and 6, Patience has developed a streamlined approach to coordinating with Arlena Dominick - tracking agreements, ensuring that design elements conform with information provided by Arlena and coordinating information with the City's Meter and Service Exchange Spreadsheet.
- Extensive experience in master planning, hydraulic modeling, and route evaluations for large and small diameter pipelines, distribution systems and associated pumping systems.
- She has been serving as Project Engineer and has been provides construction administration services for King's work orders assigned under Hillsborough County's utility relocations miscellaneous services contract.
- Prior to joining King, Patience worked in the Manatee County Utilities Department, giving her an in-depth understanding of the inner workings of a public utility.


CHRIS HUTTON – 11 Years of Experience / 10 Years with King

ROLE: Geographic Systems Information Specialist for Bay Indies Utility Relocations Phases 1 & 2, Eastgate Utility Relocations Phases 2 & 3, Water Main Replacement Phases 7 & 8.

RESPONSIBILITIES: Develop GIS database for City, public and other stakeholders tracking purposes and for Record Drawing GIS file development

HIGHLIGHTS OF QUALIFICATIONS / EXPERIENCE:

- Skilled in the development of customized GIS databases, GIS applications and integration for web, mobile and desktop applications.
- Has assisted with the development of Record Drawing GIS shapefiles for the Water Main Replacement Phase 3 project and for the City's Reclaimed Water Distribution System Improvements project.
- Provides our clients with custom and ongoing GIS operational assistance and training. For example, for the City of Miami's Consumer Water Line Utility Relocations, he developed a customized GIS database to be used online as a live document repository that gives "real time" updates of the project's progress regarding the status of the project and private property water service replacements.
- For the Town of Orange Park (FL) he created a custom GIS enterprise database for the purpose of developing maps depicting the entire city's water and wastewater force mains, gravity sewers, pump stations, manholes, wells, & fire hydrants.


DAVID GREER, PSM - 46 Years of Experience / 11 Years with King

ROLE: Survey Manager for all assigned projects.

RESPONSIBILITIES: Direct Surveying Services, CAD technicians and field crews.

HIGHLIGHTS OF QUALIFICATIONS / EXPERIENCE:

- Survey Manager overseeing surveying services for all of King's Tampa and Sarasota offices' projects including all of the City projects completed by King since 2010.
- Survey Manager for topographic and related survey services for the City of Safety Harbor's water and sewer main replacement projects, the City of Clearwater's Septic to Sewer Program and for the City of Tarpon Springs' Lake Tarpon Sewer System, Phase 3.


DENISE GREER, PE, LEED - 31 Years of Experience / 14 Years with King

ROLE: Civil Site /Stormwater Engineer for all assigned projects

RESPONSIBILITIES: Civil Site and Stormwater Design Engineer

HIGHLIGHTS OF QUALIFICATIONS / EXPERIENCE:

- 31 years of civil engineering experience in the Sarasota/Manatee area.
- She brings expertise in civil/site design and engineering including stormwater, water, sewer and reclaimed water systems and regulatory permitting.
- Project Manager for planning and site evaluations for the City's proposed Utility Campus Improvements.
- As a LEED accredited professional, Denise routinely incorporates sustainable practices into designs.

Construction Services

At King, the engineering team responsible for the design and permitting of a project routinely remains involved during the construction, startup and commissioning of the project while being supported by our trained Construction Field Representatives. Our Field Representatives play an important role in observing that construction is proceeding in conformance with the Contract Documents and also provide a vital link in the coordination between the Contractor, the Owner and the engineering team. Their experience ranges across all forms of water/wastewater treatment and utility projects and their long tenure at King results in well coordinated and seamless construction management services.



ORLANDO SERRANO, JR – 31 Years of Experience / 7 Years at King

ROLE: Construction Inspection / Observation for Bay Indies Utility Relocations Phases 1 & 2

Orlando Serrano, Jr. brings 31 years of experience in the construction management of design-build and traditional delivery projects. He has been providing construction observation on King's utility projects including the City of Clearwater's Septic to Sewer Program and the City of Tarpon Springs' Lake Tarpon Sewer System, Phase 3. He also provided Program Construction Management services for Pinellas County's South Cross Bayou Reclaimed Water Capital Improvement Program, a \$140 million countywide program increasing the Water Reclamation Facility from 11 MGD to 33 MGD.



BRETT MEYER – 30 Years of Experience / 20 Years at King

ROLE: Construction Inspection / Observation for Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection and Water Main Replacement, Ph 7 & 8

Brett Meyer has been performing construction observation services for King's water, wastewater, reclaimed water and solid waste projects for 30 years. He has been the field representative for Pinellas County's Water Main Replacement Program, totaling 45 miles and for the County's Redington Beach Pump Stations 76, 77, and 78 Upgrades. Both of these projects were located in congested residential neighborhoods. He also served as full-time construction Field Representative for the Peace River/Manasota Regional Water Supply Authority's Phase 2 Regional Loop Interconnect project.

Past experience has shown that full-time construction field representation has not been necessary on the Water Main Replacement Program projects. Therefore, should the City award both the Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection project and the Water Main Replacement Program, Phases 7 & 8 project to King, Brett can easily split his time between the two projects if their construction periods coincide.



DOUG JENNINGS – 31 Years of Experience / 8 Years at King

ROLE: Construction Inspection / Observation for Eastgate Utility Relocations Phases 2 & 3

Doug Jennings has 31 years of experience in construction field engineering including project planning, project management, and construction inspection. He performed owner representative services for multiple Hillsborough County Capital Improvement Program projects including the construction of the 18/23 MGD capacity Lake Park Pump Station, Southeast Hillsborough County Landfill; and the Brandon Water Transmission Systems.

Specialty Subconsultants

Although King's in-house team is able to perform the majority of the services required for the projects for which we are submitting, we will be utilizing specialty subconsultants listed below to provide services not available internally. Each subconsultant was selected due to the value they will bring to the City's projects, their abundance of experience, technical expertise and for the many years' experience we have working with one another, including on City of Venice projects.



ARLENA DOMINICK – 35 Years of Experience

ROLE: Private Property Agreements for Bay Indies Utility Relocations Ph 1 & 2, Eastgate Utility Relocations Ph 2 and 3 and Water Main Replacement, Ph 7 & 8

RESPONSIBILITIES: Acquisition of agreements from property owners

Arlena offers over 35 years of real estate related experience with the past 28 years dedicated to right of way support services. Her project responsibilities include site selection, community presentations, acquisition of fee simple, permanent and temporary easements; acquisition of agreements to relocate utility services; research and review of property ownership documents to include title searches, commitments and appraisals; negotiate for acquisitions and/or agreements that include compensation and/or non-monetary items, prepare settlements for client and/or Board approvals, coordination of closings, among others

Arlena has been a subconsultant to King obtaining the required property owner agreements for all phases of the Water Main Replacement Program in addition to Phases 2 and 4. She has also provided the same services for the Venetian Parkway and East Gate Terrace Phase 1 projects. The eight projects required contact of approximately 1,000 owners through on-site meetings, telephone, email and US Mail.



JAIME DRIGGERS, PE – 46 Years of Experience (Driggers Engineering Services, Inc.)

ROLE: Geotechnical Engineer for all assigned projects.

RESPONSIBILITIES: Geotechnical Engineering

Driggers Engineering Services, Inc. (DESI), founded in 1982, will be performing geotechnical engineering, construction inspection and materials testing services. DESI's staff of 34 personnel consists of professional engineers, technicians, field exploration crews and administrative assistants. Under Jaime Driggers, PE leadership, DESI has been a subconsultant to King for over 20 years, performing geotechnical engineering for our government clients' water and wastewater projects, including:

- The City's Water Main Replacement Program Phases 5 and 6; Reclaimed Water Distribution System Improvements Project; and the Intracoastal Waterway Force Main Replacement Project
- City of Safety Harbor water and sewer main replacement projects and for the cities of Clearwater and Tarpon Springs septic to sewer programs.
- The Peace River/Manasota Regional Water Supply Authority's Phases 1, 2 and 3B Regional Loop Interconnect Projects.



SHANNON WRIGHT - 26 Years of Experience
(Omni Communications, LLC)

ROLE: Subsurface Utility Engineering for all assigned projects

RESPONSIBILITIES: Subsurface Utilities Investigations

Omni Communications (OMNI), founded in 2002, is a Certified Florida Minority / Woman Business Enterprise. They specialize in utility coordination and subsurface utility engineering services (SUE) for public works and utilities infrastructure projects. They perform SUE Quality Levels A, B, C, and D. Shannon Wright will be leading the SUE services. As a subconsultant to King, he has provided SUE services for a number of pipeline, pump stations and facility projects. Projects include:

- City of Venice Water Main Replacement Program Phases 1, 3, 5, and 6; Reclaimed Water Distribution System Improvements Project; and the Intracoastal Waterway Force Main Replacement Project
- Peace River Manasota Regional Water Supply Regional Integrated Loop System Phase 1 Interconnect.
- Pinellas County's Pump Station 054 and Force Main Extension.
- City of Sarasota's Bahia Vista Water Main Replacement and Orange Avenue Water Main Replacement projects.
- Hillsborough County's Pebble Creek Repump Station and Force Main project.



PAUL CARASTRO, PE – 33 Years of Experience
(Carastro & Associates, Inc.)

ROLE: Electrical Engineering for Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection and Bay Indies Utility Relocations Phases 1 & 2

RESPONSIBILITIES: Electrical Engineering

Carastro & Associates, Inc., in business since 1960, specializes in the design of electrical and mechanical building systems including lighting, power, heating, ventilation, air conditioning, plumbing and fire protection. Leading the services will be Paul Carastro, who has been overseeing the firm's services since 1994. As an electrical engineering subconsultant to King for 20+ years, Paul has provided electrical engineering services on almost all of King's water and wastewater projects including:

- The Peace River/Manasota Regional Water Supply Authority's Phases 1, 2 and 3B Regional Loop Interconnect Projects.
- Pinellas County's Logan Potable Water Booster Pump Station.
- City of Dunedin's Lift Station #10 and for the Belcher Road Reclaimed Water Storage & Booster Pump Station.
- Pasco County's Southwest, Southeast and Boyette Road Water Treatment Plants.



JOHN SOBCZAK, PE - 12 Years of Experience
(Wekiva Engineering, LLC)

ROLE: Structural Engineer for Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection

RESPONSIBILITIES: Structural Engineering

Wekiva Engineering, LLC (Wekiva) provides structural engineering services for buildings and water, and wastewater facilities. Wekiva's engineers, who have worked with King for over a decade, bring significant experience performing structural engineering in the state of Florida. Leading the services will be John Sobczak, PE. His full range of structural engineering includes design, structural assessments, and analysis services for new construction, as well as or the retrofitting of existing facilities to allow for installation of new equipment.

- He has been as structural engineering to King for 10 years during which time he provided structural engineering for the Pinellas County's Logan Booster Pump Station and for the City of Clearwater's Lift Station 33.
- Structural Engineer of Record for City of Orlando's Lift Station Nos 28, 54, 60 and 67 upgrades



MARK BREWER, PE - 30 Years of Experience
(Angie Brewer & Associates, Inc.)

ROLE: Grant / State Revolving Loan / Funding Assistance for all assigned projects.

RESPONSIBILITIES: Provide assistance in identifying, obtaining and administering grants / funding.

Grant funding services will be provided by Mark Brewer, President, (ABA) of **Angie Brewer & Associates, Inc.**, a State of Florida Minority, Women & Service-Disabled Business. ABA has successfully assisted many communities in obtaining funding for various projects for over 25 years. Over the last years, he has been directly involved in all aspects of helping ABA's clients secure and manage over \$6 billion in grant and loans for local government capital projects.

ABA has a long history with the City of Venice. In the early 1990's, ABA administered the City's US EPA grant program for construction of the Venice Eastside Wastewater Treatment Plant and Reuse System project. Later, on ABA worked with Sarasota County and the City of Venice to assist with the planning, application, and administration of a \$15,000,000 State Revolving Fund project to expand the Venice Eastside Wastewater Treatment Plant and Reuse System.

ABA has worked with King in successfully obtaining and administering grant funding for the City of Clearwater's Idlewild Sewer System Expansion project and for the City of Clearwater's Clarifier Rehabilitation Program and will be able to provide 3rd party services during construction for all SRF Loan funded projects.



DIANE JONES, MPA, APR, PE - 22 Years of Experience (DJ Public Relations)

ROLE: Public Outreach /Involvement for all assigned projects

RESPONSIBILITIES: Coordinate with City Public Relations staff and provide public outreach and education services including public meetings and project website development and management.

For over 11 years, **DJ Public Relations (DJPR)** has helped local governments, private companies, nonprofit organizations and local campaigns communicate with the public. Leading the services will be Diane Jones, MPA, APR, the backbone of DJPR.

- As a subconsultant to King, she provided public outreach for the Peace River Manasota Regional Water Supply Authority Interconnect Phase 1 project.
- Public Outreach Coordinator for the Pasco County Moon Lake Force Main Project and for the Waters Edge Reclaimed Water Transmission projects.

THE KING TEAM OFFERS THE FOLLOWING BENEFITS THE CITY'S LARGE UTILITIES CAPITAL PROJECTS:

- ✓ **Comprehensive services from a local team that has been working with the City on identical projects for 8 years.**
- ✓ **Direct experience and understanding of the City's upcoming projects.**
- ✓ **Relevant project experience performed under similar professional services contracts.**
- ✓ **The King team members and our subconsultants have a successful history of performance working together on common projects, including City of Venice's utilities projects.**
- ✓ **Ability to perform the key services in-house, quickly and efficiently**
- ✓ **Our continued personal commitment to the City's success!**



Christopher F. Kuzler, PE



Role

Principal-in-Charge and
Client Manager – All Projects

Also Project Manager for Water
Main Replacement

Project Assignment

- Bay Indies Utility Relocations
Phases 1 & 2
- Water System Improvements
Phase 1, Potable Water
Booster Pump Station, Storage
Tank and Emergency Regional
Interconnection
- Eastgate Utility Replacement
Phases 2 and 3
- Water Main Replacement
Phases 7 & 8

Years of Experience

33 Years

Education

Bachelor of Science, Mechanical
Engineering, 1985
Polytechnic Institute of New
York

Masters of Science, Business
Administration, 1989
Adelphi University

Professional Credentials

Professional Engineer Florida
No. 45532

Memberships

American Water Works
Association

Water Environment
Federation/FWEA

Southeast Desalting Association

Project Experience

City of Venice Water Main Replacement Program Phases 1, 3, 5, and 6, Venice FL - Project Manager for the design, permitting, bidding/award assistance and construction services for Phases 1, 3, 5 and 6 of a Water Main Replacement Program aimed at replacing aged, small diameter water mains in rear lots with new main, larger mains in the City right-of-way. The project also includes work on private property to install new services from the new mains to the existing buildings as well as improved fire protection throughout the project areas. The four phases assigned to King include 27,185 LF of replacement water mains and new services connections to ~550 private lots. Phase 1 and 3 are completed, Phase 5 is in construction and the design of Phase 6 is being completed.

Cast Iron Water Main Replacement Program – Phase 1, Venice, FL – Project Manager responsible for an initial evaluation of the City of Venice's water system to identify locations of galvanized and cast iron pipe, development of a GIS map for planning purposes, and evaluation of various technologies for assessing pipe condition.

Bahia Vista Water Main Replacement, Sarasota, FL – Project Manager for the replacement of $\pm 2,600$ LF of existing 8-inch cast iron water main with 12-inch PVC pipe on a heavily treed and narrow street in an existing neighborhood. The project also includes new water service lines with meter boxes to lots along the project route. A separate design package for the crossing of Osprey Avenue was developed in advance of the remainder of the project to allow work in the intersection to be completed prior to an impending roadway improvement project along Osprey Avenue.

Galvanized Water Main Replacement Program, Pinellas County, FL – Project Manager for hydraulic modeling, route assessment, design, permitting, and construction management for approximately 45 miles of replacement water mains as part of an overall 150-mile replacement program, in which King was assigned 11 contracts. The project included replacing all galvanized and cast iron water mains with new PVC water mains with new services to private lots. Construction was completed almost entirely using horizontal directional drills.

Idlewild and The Mall Sanitary Sewer System and Woodlawn Stormwater Improvements, Clearwater, FL – Principal-in-Charge for planning, design, permitting, construction management services and EPA Grant Assistance for a $\pm 20,000$ LF sewer system in an existing neighborhood, abandonment of ± 450 septic systems on private lots, and connection of those lots to the new sewer system. The project also included water main relocations and service replacements, stormwater system improvements, including a new floodplain storage area, and repaving of the entire neighborhood.

Glenwood Estates Sanitary Sewer System Improvements, Clearwater, FL – Project Manager for design, permitting and construction services for a new 3,600 LF 10" through 15" gravity sewer trunk line through the existing neighborhood to relieve the existing system. The project included evaluating the existing gravity system by determining the hydraulic grade lines, reviewing videos, and developing solutions to relieve surcharging.

CR 193, Grove Circle, and Belcher Area Sanitary Sewer, Clearwater, FL – Principal-in-Charge for design, permitting, bidding, and construction management services for approximately 6,000 LF of 8-inch gravity sewer mains, 35 manholes, water main relocations, new water services and new laterals and abandonment of 75+ individual septic systems on private property in three existing residential neighborhoods.

Kapok Terrace Sanitary Sewer, City of Clearwater, FL – Principal-in-Charge for design, permitting, and construction management services for approximately 7,500 LF of 8-inch gravity sewer mains, 35 manholes, water main relocations, new water services and new laterals and abandonment of 130+ individual septic systems on private property in an existing residential neighborhood.

Lake Tarpon Sanitary Sewer System Expansion - Phase 3, Tarpon Springs, FL – Principal-in-Charge for design, permitting and construction management services for ~3,000 LF of 8-inch gravity sewer mains, 12 manholes, new service laterals and the reconstruction of the roadway from edge-of-pavement to edge-of-pavement within an existing neighborhood.

Lake Avenue Sanitary Sewer System and Lift Station, Largo, FL – Principal-in-Charge for planning, design, permitting and construction services for ~4,800 LF of 8"-10" sanitary sewer, new service laterals to adjacent residential lots, 400 LF of 4" and 6" FM, construction of a new duplex lift station and abandonment of existing Lift Station #33.

Lehigh Acres Lift Station #44 Replacement, Florida Government Utility Authority, Lee County, FL – Principal-in-Charge for the development of flow projections, hydraulic modeling, planning, design, permitting and construction of a replacement 4 MGD triplex master wastewater pump station including variable frequency drives, a biological odor control system, PLC controls & remote telemetry.

Belcher Road Reclaimed Water Storage and Booster Pump Station, Dunedin, FL - Project Manager for design, permitting and construction management services for a 2 MG reclaimed water storage tank and a 10 MGD high service booster pump station partially funded by the SWFWMD.

Southeast Water System, Pasco County, FL – Project Manager for hydraulic modeling, design, permitting, and construction management services for wellfield modifications, construction of a new well, 3.1 miles of raw

water mains, 5.3 miles of potable water mains, and a new water treatment facility including a 5 MG ground storage tank, a chloramination disinfection system and a 14 MGD high service pump system.

Logan Booster Pump Station, Pinellas County, FL – Principal-in-Charge for the design, permitting and construction of a new 30 MGD potable water booster station including a new 3,200 sq. ft. pump building, electrical room, 4 horizontal split case pumps with VFDs, a new 1,500 kW standby diesel generator set, installation of 18-, 24-, and 36-inch yard piping and valves, PLC and SCADA upgrades, and instrumentation.

North Booster Pump Station, Pinellas County FL – Principal-in-Charge for a complete evaluation of the facility and recommendations for improvements followed by design, permitting and construction management for replacement of four (4) existing booster pumps with new 25 MGD, 500 HP each (total of 100 MGD) pumps, installation of 60-inch, 48-inch, 42-inch, and 36-inch ductile iron yard piping and valves, an interconnect with Tampa Bay Water's 60-inch regional transmission main, tank mixing systems, PLC and SCADA upgrades, instrumentation and electrical systems modifications.

Regional Integrated Loop System, Phase 2, Peace River Manasota Regional Water Supply Authority, Sarasota, Charlotte and Desoto Counties, FL – Principal-in-Charge for design, permitting and construction management services for 7-miles of 42-inch potable water transmission main and three meter stations and interconnects with the Charlotte County and City of North Port water systems.

Regional Integrated Loop System Phase 3B, Peace River Manasota Regional Water Supply Authority, Sarasota County, FL – Principal-in-Charge for design, permitting and construction services for ±5 miles of 48-inch potable water transmission main and a meter station and interconnect with the Sarasota County water system. Also performed preliminary engineering for a storage tank and booster pump station, including identifying and evaluation zoning and other conditions of available land.

Regional Loop System Phase 1, Peace River Manasota Regional Water Supply Authority, DeSoto and Charlotte Counties, FL – Principal-in-Charge for preliminary engineering, design, permitting and construction management services for approximately 6.3 miles of 24" potable water main including meter stations and interconnects at DeSoto County's Project Prairie ground storage tank and at the City of Punta Gorda's Shell Creek Water Treatment Plant.



Christopher Sharek, PE, BCEE, PMP, Env SP



Role

Quality Assurance &
Quality Control Officer

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection
- Eastgate Utility Relocations Ph 2 and 3
- Water Main Replacement Ph 7 & 8

Years of Experience

22 Years

Education

MS, Water Resources Engineering, 1998
BS, Environmental Engineering, 1996
University of Central Florida

Professional Credentials

Professional Engineer
Florida No. 58170
Board Certified
Environmental Engineer
(BCEE)
Project Management
Professional (PMP)
Envision Sustainable
Professional (ENV SP)

Memberships

American Public Works
Association
American Society of Civil
Engineers
American Water Works
Association
Order of the Engineer
Leadership Sarasota
County Participant

Project Experience

Utilities Manager for the City of Venice, Florida - As Utilities Manager he oversaw a staff of over seventy. Specifically, he spear-headed the implementation of a radio-read meter exchange program, which enabled the City to install radio-read meters throughout its entire utility system. In the role of Assistant City Engineer for the City of Venice, Chris was responsible for technical design, permitting, and construction observation for utility relocation, paving, stormwater, and parking lot improvement projects.

- Administered a unique management service contract involving overseeing the operation and maintenance of the city's potable, wastewater, & reclaimed water systems.
- Analyzed trends and tracked developmental impacts to the City's water and wastewater plant capacities.
- Recommended expansions, upgrades, and improvements as necessary to maintain level of service to the community.
- Managed capital improvement for the water distribution division, including providing assistance to consulting engineers, contractors, & land development professionals.
- Formulated and evaluated strategies for improving, modifying, or expanding City utility infrastructure and plant facilities to meet increasing demands.
- Provided technical review of utility infrastructure for private development and public improvement projects.
- Provided technical design and obtained permits and construction observation for city utility relocation, paving, stormwater, and parking lot improvement projects.
- Reviewed construction plans for private development and provided engineering support services for other city departments.

Regional Water Main Interconnect at State Road 681, Sarasota, FL – Client services manager for Sarasota County coordinating survey, subsurface utility engineering, design, permitting, bidding and construction with project design team and County staff. Project included the design and construction support for 11,000 linear feet of 24-inch water main connecting the Peace River Manasota Regional Water Supply Authority's Phase 3A pipeline near the Sarasota County Landfill to Honore Avenue. Project included significant horizontal directional drills under Cow Pen Slough, State Road 681, and Interstate 75.

Regional Water Main Interconnect at Honore Avenue, Sarasota, FL – Client services manager for Sarasota County coordinating survey, subsurface utility engineering, design, permitting, bidding and construction with project design team and County staff. Project included the design and construction oversight of 5,500 linear feet of 24-inch water main along Honore Avenue from Northridge Road to Palmer Parkway. Project challenges included overhead power lines, large oak canopies, and maintenance of traffic.

Northeast Water Booster Station, North Port, FL – As Program Manager Chris is responsible for bid/construction phase services. This on-call contract involves preparing and processing permits as engineer-of-record; performing engineering analysis of alternatives; preparing preliminary engineering and other designs; estimating project costs; preparing contract documents; certifying, signing, and sealing documents prepared; conducting studies and investigations; and performing any other miscellaneous engineering services assigned by the City of North Port.

Atlantic Pump Station & Pipeline, Sarasota, FL - Client services manager for Sarasota County coordinating survey, SUE, design, permitting, bidding and construction with project design team and County staff. Project included the design and construction oversight for a master pump station to pump wastewater flows away from the abandoned Atlantic Utilities Wastewater Treatment Plant, demolition of the existing facility and more than 1,300 linear feet of force main including a horizontal directional drill under a major stormwater channel.

Peace River/Manasota Regional Water Supply Authority) Phase 2C Pipeline Evaluation Study, Venice, FL - Project Engineer performing as a sub-consultant reviewing the alignment and timing of a regional interconnecting potable water pipeline along US 41 and River Road. Identified in 2006, this regional pipeline connects the City of North Port Water Treatment Plant (WTP) with the Sarasota County Carlton WTP. Evaluation of the route included pipeline length, public inconvenience, safety, special crossings, operation and maintenance accessibility, permitting, right-of-way/easement availability, geotechnical conditions, environmental impacts, and long-term planning. Significant consideration was given to the construction timing and coordination with other public and private projects within the right-of-way corridor.

US 41 Water Main Improvements, Sarasota, FL - Client services manager working with a design team for the City of Sarasota on a 3.1 mile potable transmission main replacement of an older asbestos cement and ductile iron pipeline within a congested FDOT corridor. Evaluation for replacing this pipeline included trenchless technologies such as sliplining and pipebursting construction methodologies. The final recommendation was to install a new pipeline one block east of the current pipeline to avoid future conflicts within the FDOT corridor. Smaller distribution and service pipelines were provided to serve the customers along the original corridor, which makes operations and maintenance of this pipeline easier for the City.

Nokomis Force Main, Sarasota, FL - Design-Build Contract Administrator for this Sarasota County project. Working with a local contractor & engineer of record, oversaw design, permitting, and completed construction of 2,200 LF of 4" FM in a narrow and congested corridor along Colonia Avenue. Installation primarily used directional drill technique to minimize traffic disruptions and surface restoration. Project was completed ahead of schedule and within the established budget.

Lockwood Ridge Force Main Interconnect, Sarasota, FL - Client services manager for Sarasota County responsible for coordinating survey, subsurface utility engineering, design, permitting, bidding and construction with project design team and County staff. Project involved the design of 3.1 miles of 20-inch wastewater force main connecting two regional County wastewater treatment facilities to allow for flow equilibration. Project challenges included six horizontal directional drills, including one under SR 780 Bee Ridge Road, a tight and utility-congested corridor, private irrigation wells and setbacks, and maintenance of traffic through local neighborhoods. Provided quality control, and project scheduling, and overall client satisfaction with project delivery.

East Bay Force Main Extension, Sarasota, FL - Client services manager for Sarasota County coordinating survey, subsurface utility engineering, design, permitting, bidding and construction with project design team and County staff. Project included the design and construction oversight of 9,500 linear feet of 16-inch wastewater force main along East Bay Street from US 41 to Pine Ranch East Road. Project challenges included private potable and irrigation wells, separation distances, a jack and bore under US 41 and maintenance of traffic.

Engineer of Record Miscellaneous Assignments, Sarasota, FL - Client manager working with the City of Sarasota staff on varying assignments including potable water main improvement design, pump station design and construction, state permitting of surface water discharges, ground storage tank design and construction, and various studies, evaluations, and recommendations. Served the City for over seven years in this capacity. Provided extensive coordination with City staff, FDEP, SWFWMD, and FDOT staff to successfully improve utilities while minimizing the impact to the utility customers. Also provided tracking and reporting to FDEP of Consent Agreement requirements.



Loc P. Truong, PE

Role

Project Manager for:

- Bay Indies Utility Relocations
Ph 1 & 2

Lead Engineer for:

- Eastgate Utilities Relocation,
Phases 2 & 3
- Water System Improvements
Phase 1, Potable Water
Booster Pump Station,
Storage Tank and Emergency
Regional Interconnection

Years of Experience

17 Years

Education

Bachelor of Science, Chemical
Engineering, 2001
Rensselaer Polytechnic
Institute

Professional Credentials

Professional Engineer Florida
No. 65709

Professional Engineer Texas
No. 102925

Drinking Water Treatment
Plant Operator Class C Florida
No. 0014398

Drinking Water Treatment
Plant Operator Class IIA New
York No. NY0036915

Project Experience

Intracoastal Waterway Force Main Replacement Project, Venice, FL – Project Manager for design, permitting and construction services for 1,300 LF of 16-inch HDPE below the Intracoastal Waterway via horizontal directional drill (HDD). The project included performing HDD calculations, preparing plans, specifications and cost estimate.

Septic to Sewer System Conversion Program, Clearwater FL – Served as Project Manager and Engineer of Record for an initial study to eliminate septic systems throughout the City followed by implementation of the first three and only projects in the program executed to date:

- **Idlewild/The Mall Sanitary Sewer System** - Preliminary design, construction cost estimates and life cycle cost evaluations for a vacuum sewer system, a low pressure sewer system, a STEP sewer system and a conventional gravity sewer system. Results were compiled into an Alternatives Analysis Report which also addressed environmental concerns and was submitted to the EPA to serve as an Environmental Impact Document for the project's EPA grant. Design and construction included a $\pm 20,000$ LF sewer system in an existing neighborhood, abandonment of ± 450 septic systems on private lots, and connection of those lots to the new sewer system. The project also included water main relocations and service replacements, stormwater system improvements, including a new floodplain storage area, and repaving of the entire neighborhood.
- **CR 193, Grove Circle, and Belcher Area Sanitary Sewer System** – Project Manager for design, permitting, bidding, and construction management services for approximately 6,000 LF of 8-inch gravity sewer mains, 35 manholes, water main relocations, new water services and new laterals and abandonment of 75+ individual septic systems on private property in three existing residential neighborhoods.
- **Kapok Terrace Sanitary Sewer System** - Project Manager for design, permitting, and construction management services for approximately 7,500 LF of 8-inch gravity sewer mains, 35 manholes, water main relocations, new water services and new laterals and abandonment of 130+ individual septic systems on private property in an existing residential neighborhood.

Lake Tarpon Sanitary Sewer System – Phase 3, Tarpon Springs, FL – Project Manager for design, permitting and construction management services for $\sim 3,000$ LF of 8-inch gravity sewer mains, 12 manholes, new service laterals and the reconstruction of the roadway from edge-of-pavement to edge-of-pavement within an existing neighborhood.

Lehigh Acres Lift Station #44 Replacement, Florida Government Utility Authority, Lee County, FL – Project Manager for the development of flow projections, hydraulic modeling, planning, design, permitting and construction of a replacement 4 MGD triplex master wastewater pump station including variable frequency drives, a biological odor control system, PLC controls & remote telemetry.

City of Safety Harbor Water Main Replacements – Project Manager for the design, permitting, and bidding assistance for the City's Water Main Replacements located within the following residential areas.

- **South Green Springs Water Main Replacement** - Project Manager for the design, permitting, and bidding of 4,000 LF of replacement 6-inch water mains, 4,000 LF of 2-inch replacement water mains and new service connections to ~115 lots in an existing residential neighborhood. The majority of the new water mains were installed using the Close Tolerance Horizontal Directional Drill method, resulting in installation depths between 30 and 42 inches and minimizing root damage to the large amount of Grand Oak trees along the streets. The project also included valves and appurtenances, fire hydrants, abandonment and grouting of existing water mains, and restoration of curb, driveways and sidewalks.

Identical Services were provided for:

- **Green Springs Water Main Replacement** - 5,200 LF of replacement 6" water mains and new water services to 71 properties.
- **13th Avenue North to 9th Avenue North Water Main Replacement** – 2,100 LF of replacement 12" water mains and new water services to 44 properties.
- **Espirito Santo Springs Subdivision & Washington - Brennan Subdivision** – 1,565 LF of replacement 2" and 6" water mains and new water services to 100 properties.

Seabreeze Sanitary Sewer System Evaluation, Tarpon Springs, FL – Project Manager for developing an Alternative Analysis Report for the expansion of the City of Tarpon Springs wastewater service located in Seabreeze Drive neighborhood as part of their ongoing program to eliminate private septic systems. System components evaluated included the installation of a gravity sewer system along Seabreeze Drive to a new lift station, installation of a vacuum sewer system along Seabreeze Drive to a new vacuum and pumping station, and installation of a low pressure sewer system along Seabreeze Drive. The evaluations criteria included wastewater flows and system capacity; alignment, constructability, life cycle costs, permitting requirements, and operational considerations, including the use of specialized equipment, training, and resulting system reliability. The project is entering the design phase.

Seagate Sanitary Sewer System Replacement, Coney Island, NY – Project Manager for design, permitting and construction services for the Seagate community, which is comprised of 860 residential properties served by a combined gravity sanitary sewer and storm sewer system. The project includes conducting video assessment of the existing sewer systems for areas of blockage and back slope sewer mains, design for the removal and replacement of over 20,000 LF gravity sewer main ranging from 8-inch thru 24-inch along with the replacement of 180 sanitary sewer manholes and the connection of 860 sewer laterals. The project also includes the removal and replacement of 90 storm sewer catch basins and approximately 2,000 LF of storm sewer pipe ranging from 6-inch thru 12-inch.

Orange Avenue Water Main Replacement, Sarasota, FL – Lead Engineer for design, permitting and construction of 2,000 LF of replacement 8-inch water main and new services to 28 lots along Orange Avenue required to replace an aged unlined cast iron pipe. The project also includes cutting into and replacing a section of asbestos cement pipe at the intersection with Dr. Martin Luther King Jr. Drive.

Logan Booster Pump Station, Pinellas County, FL – Project Manager for the design, permitting, and construction of a new 30 MGD potable water pumping facility including a 3,200 sq. ft. pump building, four (4) new 7.5 MGD, 250 HP horizontal split case pumps with variable frequency drives, a new 1,500 kW standby diesel generator set, 36-inch, 24-inch, & 18-inch yard piping & valves, PLC & SCADA upgrades, instrumentation & electrical system modifications.

North Booster Pump Station Modifications, Pinellas County, FL – Project Manager for the design, permitting, and construction of the modifications to an existing 100 MGD potable water booster station including replacement of four (4) booster pumps with new 500 HP pumps, installation of 60-inch, 48-inch, 42-inch, and 36-inch ductile iron yard piping and automated valves, a metered interconnect to the regional 60-inch transmission main, PLC & SCADA upgrades, and instrumentation and electrical systems modifications.

Peace River Regional Integrated Loop System, Phase 2, Peace River Manasota Regional Water Supply Authority – Project Engineer for design of metering and SCADA/telemetry systems at three interconnects between the new 42-inch Phase 2 transmission main and the City of North Port's and Charlotte County's water system.



Benjamin C. Turnage, PE

Role

Project Manager for:

- Eastgate Utility Relocations Ph 2 and 3

Utilities & Lift Stations :

- Bay Indies Utility Relocations Ph 1 & 2
- Water Main Replacement Ph 7 & 8

Years of Experience

17 Years

Education

Bachelor of Science
Biological Engineering, 2001
University of Georgia

Bachelor of Science
Physics 2000
Furman University

Professional Credentials

Professional Engineer
Florida No. 64055

Memberships

American Physical Society
Water Environment
Federation (WEF)

Project Experience

Lake Avenue Sanitary Sewer Collection System and Lift Station, Largo, FL – Project Manager and Engineer of Record for planning, conceptual design, design, cost estimation, permitting and construction management services for the expansion of the Largo sanitary sewer collection system and abandonment of private septic systems at Lake Avenue, Southwind Lane, and Cheryl Road. This project was designed in conjunction with the FDOT SR 688 roadway improvements project to save on design costs and allow for construction of up to 18' deep sewers in the roadway. Project included installation of approximately 200 LF of 4" FM, 600 LF of 6" FM and 4,800 LF of 6"-10" Sanitary Sewer plus the construction of a new duplex submersible lift station and abandonment of existing Lift Station #33.

Pump Station 76, 77, & 78 Refurbishment & Replacement, Redington Beach, FL – Project Engineer for the design, cost analysis, permitting, and construction management of three pump stations in the Gulf of Mexico coastal town of Redington Beach. The existing pump stations were part of an aging system that deteriorated over time, experiencing problems with odor and I&I. Pump Station 76 was a 6'-diameter wetwell to be refurbished in place, posing difficulties in design due to its location immediately adjacent to the Town Hall building. Pump Station 77 was an existing 6'-diameter station to be relocated due to its location in a heavily traveled intersection, and Pump Station 78 was upgraded from a duplex to a triplex. Pumps at each station ranged from 5-HP to 15-HP.

SR 688 (Ulmerton Rd.) Utility Relocations (multiple projects), Largo, FL - Project Engineer for three projects and Project Manager/Engineer of Record for four projects involving the relocation of sanitary and reclaimed water facilities along 9.75 miles of Ulmerton Rd. between I-275 and 119th St, to accommodate roadway widening and storm improvements by the FDOT. Construction of all five sections have recently been completed, which included 13,800 LF of 4-inch to 8-inch sanitary force main, 3,800 LF of 8-inch to 12-inch reclaimed water main, and 8,000 LF of 8-inch to 12-inch gravity sewer.

Hillsborough County Utility Relocation Projects, Hillsborough County, FL – Since 2010, served as Project Manager/Engineer of Record for miscellaneous utilities relocation projects assigned under County's miscellaneous services contract with King. Services include coordination, design, permitting, and construction services as required for relocation of utilities to accommodate FDOT and County roadway improvements projects. Projects-by-Work-Order under this contract have included:

- SR 574 / Dr. MLK Jr. Blvd, Parsons Ave. to Kingsway Rd-1,000 LF of 8-inch WM, 3,250 LF of 12-inch WM
- SR 574 / Dr. MLK Jr. Blvd, Kingsway Rd to McIntosh Rd-3,400 LF of 12-inch WM and 2,350 4-inch sewer force main
- SR 589 / Veterans Expressway from Memorial Hwy to Gunn Hwy-600 LF of 6-inch FM and 1,500 LF of 12-inch to 16-inch FM
- 589/Veterans Expressway from Gunn Highway to Van Dyke Rd – coordination for protection of existing utilities crossing the Veterans Expressway
- SR 60/Adamo Dr, East of US 301 to Falkenburg Rd-3,250 LF of 16-inch FM & 450 LF of 24-inch RCW
- SR 60 from East of Valrico Rd to East of Dover Rd-1,500 LF of 8-inch WM
- US 301 @Balm Riverview Rd-1,900 LF of existing 12-inch to 16-inch WM
- Baker Canal Improvements/Relocations- 100 LF each of 12-inch WM & 4-inch FM
- Harney Rd @ Williams Rd-4-inch & 8-inch WM & FM

Wet Weather Force Main & Monitoring System, Largo, FL

– Served as the Technical Lead / Project Engineer for King on the two-firm engineering team, for the overall project that included the construction of ±7 miles of replacement 8-inch to 16-inch wastewater force mains through residential and commercial neighborhoods, 5 miles of new 20-inch to 30-inch force main, upgrades to 6 wastewater pump stations and remote monitoring and control equipment. Each of the new pump stations included installation of permanent mounted generators ranging from 125 kW to 400 kW. Specific responsibilities included assistance with hydraulic analysis of the 6-pump station system with VFDs, conceptual and final design of the pump station sites and mechanical equipment, route evaluation and design of the replacement force mains, and frequent coordination with the City and contractor during construction.

Winsted Commons Sanitary Pump Station and Off-Site Force Main, Sarasota, FL

– Lead Engineer for design and permitting of a duplex submersible pump station with 10-HP pumps, and 5,300 LF of 4-inch and 8-inch force main to connect to the County's wastewater system. Specific responsibilities included hydraulic design, permitting, and quality control review of the pump station and force main.

Village of Glen Creek Wastewater and Reclaimed Water Pump Stations, Bradenton, FL

– Lead Engineer for the design and construction of a duplex submersible wastewater pump station (10 hp) and reclaimed water booster pump station (45 hp) which included a 40 KW diesel generator with integral fuel tank, transfer switch, and sound attenuated enclosure in order to provide sewer and irrigation services.

Pump Stations 15 & 25 Refurbishment & Replacement, Clearwater, FL

– Project Engineer for the refurbishment of two municipal wastewater pump stations and installation of approximately 600 LF of directionally drilled 8-inch force main. One site included removal of an existing pump station in a residential area and subsequent installation of a new 6-foot diameter concrete wet well pumping station. The site posed significant challenges for removal due to its proximity to two residences, swimming pools, and a large oak tree. The other site included removal and replacement of above-grade generators, fuel tanks, building, etc., and re-lining of the existing 10-foot wet well. Weekly site visits and progress meetings with the Contractor ensured construction remained on schedule and impacts to residents and traffic were minimized.

Upper Peninsula Watershed Drainage Project, Phase 2 (Dale Mabry/Henderson Trunkline)

– Engineer of Record and Utility Coordinator for design, permitting, and construction services of utility relocations (including 2-inch to 12-inch potable and reclaimed water mains, and 8 to 27-inch sanitary sewers) along 8,100 linear feet of residential corridor associated with the construction of a new 9'x6' concrete box culvert to alleviate flooding in south City of Tampa. The corridor starts at the Estrella Street outfall to Hillsborough Bay, and terminates at the intersection of Dale Mabry Highway and Watrous Avenue. The overall project, including the box culvert and all utility relocations, is being completed using the Design-Build approach. The design of new utilities includes parallel water and sewer utilities along both sides of the right-of-way, resulting in approximately 15,000 LF each of new potable water and sewer utilities and new services and laterals to affected lots. The corridor includes numerous "grand" trees, requiring an integrated approach using both trenchless and open cut installations.

Design-Build of River Oaks Diversion Project, Hillsborough County, FL

– Lead Engineer of Record for this Design-Build project which consists of retiring the River Oaks AWTF – and diverting all flows to the expanded Northwest Regional Water Reclamation Facility (NWRWRF). The project includes:

- A new 24-MGD pumping station, designed with a "self-cleaning" trench-style wetwell
- Approximately 5,000 LF of new 36-inch force main between the existing River Oaks AWTF site and the new pump station, including an aerial crossing of Channel A
- Approximately 13,000 LF of new 30-inch force main between the new pump station and the NWRWRF installed in an a 4-lane urban roadway
- Approximately 13,000 LF of new 20-inch reclaimed water main, also installed in a 4-lane urban roadway
- A new 30-MGD cascade-type aeration outfall structure to a major drainage channel
- Demolition of River Oaks WWTP Plant and repurposing of the site after the successful diversion of flow

Design Criteria Package for the North Palm River Water Expansion Project, Hillsborough County, FL

– Project Manager for the development of RFQ and RFP packages, including a Design Criteria Package and Concept Plans, for Hillsborough County's design-build construction of 45,000 LF of 6"-8" potable water mains into the existing residential Palm River area north of Causeway Blvd. Services included development of the RFQ and RFP/DCP, bidding assistance services, and serving as the Owner's Engineer during construction.



Thomas A. Traina, PE, ENV SP



Role

Project Manager

Project Assignment

- Water System Improvements Phase 1 Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection

Years of Experience

40 Years

Education

BS, Civil Engineering 1978,
University of Notre Dame

Professional Credentials

Professional Engineer
Florida No. 42871
Envision™ Sustainability
Professional Credential

Memberships

American Water Works
Association

Water Environment
Federation

Project Experience

Southwest Water Treatment Plant, Pasco County, FL – Engineer of Record and Project Manager for the design, permitting and construction management of over 7,000 LF of raw water collector mains installed by directional drilling, a 2.0 MGD treatment facility with chloramines disinfection, a 4.0 MG finished water storage tank, and a 7.5 MGD high service pumping station. The tank was constructed primarily below ground in order to address aesthetic concerns in this residential neighborhood. The project included sitework, yard piping, closed circuit security systems, and a 2,700 sf building housing the pumping station, chemical storage and feed systems, standby power generator, electrical and I&C systems and a computerized maintenance management system.

Alternative Water Ground Storage Tank and Pump Station, Doral FL – Project Engineer and Engineer of Record for the study, design, permitting and construction management services for a system designed to filter, store and supply excess stormwater to the J.C. Bermudez Park irrigation system. The system included a 3,000 GPM lake intake / pumping system with provisions to connect to the future storm water collection system, pressure filtration and waste washwater sand filter systems, a 2 MG ground storage tank, a 1,500 GPM 125 psi irrigation pumping station, 7,100 LF of 12-inch irrigation piping, and a 10-acre irrigation system with smart controllers

Regional Integrated Loop System, Phase 2, Peace River Manasota Regional Water Supply Authority – Engineer of Record and Construction Manager for a 7-mile long, 42-inch diameter transmission main. The project included three meter stations/interconnects with the City of North Port's and Charlotte County's water systems with full metering equipment and SCADA/telemetry and the ability for water to flow in both directions if necessary in an emergency. Engineering services included property acquisition, nine environmental and right of-use permits, contractor pre-qualification and cost estimating. Bidding services and construction management assistance were also provided. This 15-month construction project was completed 6% under the \$10.9M budget and on schedule.

Regional Integrated Loop System Phase 3B, Peace River Manasota Regional Water Supply Authority, Sarasota County, FL – Project Manager for design, permitting and construction services for ±5 miles of 48-inch potable water transmission main and a meter station and interconnect with the Sarasota County water system. Also performed preliminary engineering for a storage tank and booster pump station, including identifying and evaluation zoning, costs, environmental and other conditions of available land. The project will extend the Authority's existing Phase 3A transmission main from a point north of Knights Trail Road to Clark Road (SR-72).

Peace River Regional Loop System Phase 1, Peace River Manasota Regional Water Supply Authority – Project Manager for preliminary engineering, design, permitting and construction management services for 6.3 miles of 24" potable water main including a 3,500 LF horizontal directional drill crossing of Shell Creek and meter stations and interconnects at DeSoto County's South Booster Station and at the City of Punta Gorda's Shell Creek Water Treatment Plant.

Project Manager – Water System Improvements Phase 1

West-Central Reuse Interconnect, Pasco County, FL – Project Manager and Engineer of Record for the design, permitting and construction of two 5 and 2.3 MG ground storage tanks, a 5 MGD, 125 psi reclaimed water pumping station, hydropneumatic systems, electrical buildings, and sitework at the Odessa and Land O'Lakes Wastewater Treatment Plants and 12 miles of transmission main interconnecting Pasco County's West and Central wastewater/reuse service areas. The pipeline portion of the project included 63,800 LF of 24-inch reclaimed water main interconnecting the two pump stations, 44,000 LF of 24-inch potable water main, and 4,400 LF of 12-inch, 20,000 LF of 16-inch, and 9,000 LF of 20-inch force main.

Boyette Road Water Treatment Plant, Pasco County, FL - Project Manager and EOR for the planning, design and permitting of a 3.6 MGD potable water booster station which consisted of a 10 MGD high service pump station; a 5 MG ground storage tank; a bleach feed system with provisions to add caustic and ammonia feed facilities in the future. In addition to the mechanical components, the new facility was equipped with a computerized maintenance management system and connected into the County's existing VPN SCADA network.

Central Pasco Master Pump Stations and Pipeline Projects –Engineer of Record for the design, permitting, bidding and construction of the Sunlake Master Pump Station and the Collier Parkway Booster Station, including associated gravity sewers, force mains and potable water mains.

- The **Collier Parkway Booster Station** was designed as a 2.1 MGD triplex in-line raw sewage booster pump station incorporating 20-hp variable speed (VFD) pumps, a standby generator system, and instrumentation, control and telemetry systems. The Station was designed to maintain upstream pressures at a minimum so as to relieve other pump stations using a common force system. Engineering services were also provided for 7,700 LF of 16-inch PVC force main and 800 LF of 8-inch PVC water main PVC portions of which were installed by directional drill.
- The **Sunlake Master Pump Station** was designed as a 3 MGD submersible wastewater pump station with an ultimate capacity of 11.5 MGD. The Station incorporated dual 12-foot diameter, 30-foot deep wet wells, one of which was equipped at the time with a triplex pumping system. Flow is conveyed to the Station by 1,350 LF of 24- and 36-inch diameter ductile iron gravity sewer installed 20-feet below grade and is discharged from the Station through

some 850-feet of 16-inch C905 PVC discharge force main. The Station includes a diesel engine driven standby power generator and biological odor control filter. The Station is locally controlled by a PLC-based control system and monitored remotely through a radio telemetry system.

Upgrade of Sewage Pump Station #65, Miami, FL – Served as Project Engineer to provide fast-tracked design and permitting of the upgrade and rehabilitation of this pump station to achieve a capacity of 650 gpm under an EPA Consent Decree. Engineering services provided include converting the existing dry well / wet well pump station to a submersible pump station, converting the dry pit to a valve vault, and new electrical service.

Rehabilitation of Lift Station #33 and #42, Clearwater, FL – Project Manager and Engineer of Record for the design, permitting, bidding, and construction of the improvements to these two sanitary sewage pump stations in Clearwater Florida. Lift Station #33 involved bypass pumping to allow the complete demolition of an existing below-grade, "canned-type" 250 GPM duplex station and its replacement with a new submersible station located in a tidal wetlands setting. Lift Station #42 involved bypass pumping, structure rehabilitation, and equipment replacement for a 3,400 GPM triplex submersible pump station.

Upgrade of Sewage Pump Station #500, Miami, FL – Served as Project Engineer for the fast-tracked design and permitting of an upgrade to PS 0500 to increase the capacity to 600 gpm under an EPA Consent Decree. Work includes replacing the existing dry well / wet well pump station with a larger submersible pump station, providing a new valve vault with 10-inch internal discharge piping, and a full electrical design.

Central Pasco Water System Improvements, Pasco County, FL – Engineer of Record for hydraulic modeling; route evaluation/selection/land acquisition; topo and boundary survey, ecological, geotechnical coordination, design, and permitting for 86,000 feet of 12-, 16-, 24- and 36-inch potable mains, 57,900 feet of 12-, 16- and 24-inch force mains and relocation of various reclaimed water mains. A total of ±144,000 LF of pipeline was installed along a 10 mile long corridor that provided for expansion of the water, wastewater and reclaimed water systems throughout the central area of the County. The PVC and ductile iron pipelines were installed in public ROWs and private easements by open cut, directional drill and jack and bore techniques. A 900-foot long, 36-inch directional drill under Trout Creek was, at the time, the largest diameter ductile iron pipe successfully installed by directional drill.



Matthew W. Davis, PE



Role

Utilities & Lift Stations

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Eastgate Utility Relocations Ph 2 and 3
- Water Main Replacement Phases 7 & 8

Years of Experience

6 Years

Education

BS, Mechanical Engineering, 2012
University of Central Florida

Professional Credentials

Professional Engineer
Florida No. 83410

Memberships

Florida Water Environment Association

Project Experience

Idlewild/The Mall Sanitary Sewer System, Clearwater FL – Project Engineer for the design and permitting for 20,000 LF of gravity sewer main, 90 manholes, abandonment of ± 450 septic systems on private lots, and connection of those lots to the new sewer system. The project also included water main relocations and service replacements, and stormwater system improvements. Responsible for calculations for sewer system design and performed full time construction management services.

CR 193 and Grove Circle Sanitary Sewer, Clearwater, FL - Project Engineer for design, permitting, and construction services for 6,000 LF of 8-inch gravity sewer main manholes, abandonment of 75+ individual septic systems and connection of those lots to the new sewer system. The project also included water main relocations and service replacements. Responsibilities included calculations for sewer system design, permitting, and full time construction management services.

Kapok Terrace Sanitary Sewer System Project, Clearwater, FL - Project Engineer for design of 7,000 LF of 8-inch gravity sewer main, 28 manholes, abandonment of 130+ individual septic systems and connection of those lots to the new sewer system. The project also included water main relocations and service replacements. Responsibilities included calculations for sewer system design, permitting, and construction management services.

Lake Tarpon Sanitary Sewer System Expansion - Phase 3, Tarpon Springs, FL - Project Engineer for the design of 3,000 LF of 8-inch gravity sewer main, 11 manholes and new service laterals to 40+ individual lots. Responsibilities included calculations for sewer system design, permit acquisition assistance and construction management services.

North Bayshore Drive Sanitary Sewer & Forcemain Replacement, Safety Harbor, FL – Project Engineer for the design and of a residential sanitary sewer system replacement including 1,700 LF of gravity sewer main, new service laterals to affected lots, 1,600 LF of 6" force main and replacement of 8 manholes. Responsibilities include calculations for sewer system design and permit acquisition assistance.

Florida Government Utility Authority Design Criteria Package for Lindrick System Improvements, New Port Richey, FL - Project Engineer for the development of a Design Criteria Package (DCP) to reconfigure force main pumping directions, upgrade LS 4 with new 60 HP submersible pumps, a new wetwell, odor control, electrical, instrumentation and controls and install new pumps at LS 13 to allow its flows to pump directly to the New Port Richey WWTP.

Peace River Regional Integrated Loop System, Phase 1, Peace River Manasota Regional Water Supply Authority – Project Engineer responsible for instrumentation and control design services for two metering systems/interconnects between the new regional transmission main and DeSoto County's and the City of Punta Gorda's water systems. The interconnect at the City's water treatment plant is being designed to allow flow in both directions if the City water system is required to provide water to the regional system in the event of an emergency.

City of Safety Harbor Water Main Replacements – Project Engineer for the design, permitting, and bidding assistance for the City's Water

Main Replacements located within the following residential areas.

- **South Green Springs Water Main Replacement** - 4,000 LF of replacement 6-inch water mains, 4,000 LF of 2-inch replacement water mains and new service connections to ~115 lots in an existing residential neighborhood. The majority of the new water mains were installed using the Close Tolerance Horizontal Directional Drill method, resulting in installation depths between 30 and 42 inches and minimizing root damage to the large amount of Grand Oak trees along the streets. The project also included valves and appurtenances, fire hydrants, abandonment and grouting of existing water mains, and restoration of curb, driveways and sidewalks.

Identical Services were provided for:

- **Green Springs Water Main Replacement** - 5,200 LF of replacement 6" water mains and new water services to 71 properties.
- **13th Avenue North to 9th Avenue North Water Main Replacement** – 2,100 LF of replacement 12" water mains and new water services to 44 properties.
- **Espiritu Santo Springs Subdivision & Washington - Brennan Subdivision** – 1,565 LF of replacement 2" and 6" water mains and new water services to 100 properties.

Causeway Watermain Replacement Project, Dunedin, FL - Project Engineer providing full time construction management services for the construction of ±2,300 LF of 18-inch PVC water main installed along the Dunedin Causeway and Curlew Road.

City of Bedford, Texas AMR Project – Project Engineer for the design of City-wide replacement of ±15,000 conventional potable water meters with new potable water meters equipped with Automatic Meter Reading (AMR) technology at all residential and commercial parcels. Project included a site visit to review the condition of 45 existing large diameter meter vaults and generation of individual layouts to meet manufacturer's installation requirements.

Lithia Water Treatment Plant (WTP) Large Diameter Valve Replacement Project, Hillsborough County, FL – Project Engineer responsible for preparing design plans to replace existing large diameter valves that have failed over time. A total of eight (8) valves were designed to be replaced, ranging from 36" to 54" diameter. The project includes coordination with the County to incorporate

construction sequencing in the design to reduce potable water system downtime and maintain operations at the WTP during the replacement of each of the valves.

Dunedin WTP Well Site Instrumentation and Remote Telemetry Upgrades, Dunedin, FL - Project Engineer for the development of design criteria for replacement of Radio Telemetry and SCADA Controls at approximately 25 raw water well sites. Development of design criteria included requirements for new local control panel, Allen-Bradley PLC's, surge protection, radio telemetry units, and other miscellaneous instrumentation and control requirements. Design criteria also included software and hardware requirements for the installation of a new Supervisory Control and Data Acquisition (SCADA) System at the City's Water Plant and integration with the Radio Telemetry System at the 25 remote well sites. Limited construction services included review of shop drawings and coordination with the Contractor.

City of Sarasota WRF Headworks and Filter Improvements, Sarasota, FL – Project Engineer for the design of a headworks expansion project that included the addition of a third mechanical screening channel to increase the hydraulic capacity of the existing structure. The expansion is designed to allow for the headworks structure to remain in service while construction of the new channel occurs. The project also included modifications to the existing influent piping at the plant and the conversion of 2 traveling bridge filters to Aqua Aerobics AquaDiamond cloth filters. Responsibilities included reviewing and updating the plant hydraulic profile, assisting with hydraulic modeling of the plant influent force mains and updating an existing Basis of Design Report to provide recommendations during the preliminary design process.

Lehigh Acres WWTP Headworks and Miscellaneous Plant Modifications, Florida Governmental Utility Authority, Lee County, FL - Project Engineer for planning, preliminary engineering, design and construction services for a review of the existing facility including hydraulic calculations followed by engineering evaluations to size and select equipment for a new influent meter assembly and headworks structure with screening, grit removal and provision for future odor control along with other miscellaneous piping and process modifications within the plant.



Patience S. Anastasio, PE



Role

Private Property Agreement
Coordination

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Eastgate Utility Relocations Ph 2 and 3
- Water Main Replacement Ph 7 & 8

Years of Experience

11 Years

Education

BS, Civil Engineering 2007
University of South Florida

AA, Chemistry, 2002
State College of Florida

Professional Credentials

Professional Engineer
Florida No. 75402

Membership

American Society of Civil
Engineering

Project Experience

City of Venice Water Main Replacement Program Ph. 1, 3, 5 & 6, Venice, FL – Project Engineer for the design, permitting, bidding/award assistance and construction administration services for Phases 1, 3, 5, and 6 of the Water Main Replacement Program in existing residential neighborhoods aimed at replacing aging rear lot water mains with new mains and services in the public right-of-way. Developed a streamlined approach for tracking private property agreements and coordinating with the property agreement subconsultant. Projects have included:

- Phase 1: ±5,000 LF of new 6" and 8" water mains and relocation of ±141 private services.
- Phase 3: ±5,100 LF of 6" water main and the relocation of ±139 private services.
- Phase 5: ±9,610 LF of 6" water main and the relocation of ±160 private services, including fire services.
- Phase 6: ±7,475 LF of new 6" water mains and the relocation of ±110 private services.

Peace River Water Authority Regional Loop System Phase 3B Sarasota County, FL – Project Engineer for preliminary engineering, design, permitting and construction services for ±5 miles of 48-inch potable water transmission main and associated storage and pumping facilities. Also performed preliminary engineering including hydraulic modeling of the proposed system and affected areas of Sarasota County's water system, a route evaluation, determination of land acquisition and permitting requirements, cost estimating and development of a Basis of Design Report for a ground storage tank and pump station.

Peace River Manasota Regional Water Supply Authority Regional Loop System Phase 1, Sarasota County, FL - Project Engineer for preliminary engineering services, design, permitting and construction management for 6.3 miles of 24" potable water main interconnect delivering regional finished water from the Authority's Peace River Facility to the City of Punta Gorda. Performed hydraulic modeling of the proposed system to confirm available delivery pressures and flows.

Hillsborough County FDOT Utility Relocations, County, FL – Project Engineer for design and construction administration for multiple projects assigned under the County's Miscellaneous Utility Relocations contract. Projects include:

- **Hillsborough County FDOT Utility Relocations - FPID 255893-3 SR 574 (MLK Blvd.) from E. of Parsons Ave. to E. of Kingsway Rd.** – Providing construction administration, including site visits and water main clearance processing, for the construction of approximately 3,250 LF of 12-inch WM to provide system extension, interconnections, and accommodate road widening.
- **Hillsborough County FDOT Utility Relocations - FPID 255893-4 SR 574 (MLK Blvd.) from East of Kingsway Road to East of McIntosh Road** – Providing design and construction administration to extend the County potable water system with approximately 2,000 LF of 12-inch WM and relocate approximately 2,350 LF of 4-inch sewer force main in conjunction with the FDOT road reconstruction and widening project.

- **Hillsborough County FDOT Utility Relocations - FPID 405525-2 SR60 (Adamo Dr.) from E. of US 301 to W. Falkenburg Rd.** – Providing design and construction administration services for replacement of approximately 3,250 LF of 16-inch FM and 450 LF of 24-inch RCW to accommodate roadway and storm system improvements.

Palm River Water Main Extension Project Design Criteria Engineering, Hillsborough County, FL – Developed Design Criteria Package for Design-Build RFP on behalf of Hillsborough County. Project included preliminary engineering for approximately 45,000 LF of 6-inch and 8-inch water mains along existing residential rights-of-way and development of technical guidelines and project exhibits for the RFP.

City of Largo/Wet Weather Monitoring and Pumping System, Largo, FL – Project Engineer for King on the two-firm engineering team for the overall project that included the construction of upgrades to 6 wastewater pump stations, ±7 miles of replacement 8-inch-16-inch wastewater force mains, 5 miles of new 20-inch to 30-inch force main and remote monitoring and control equipment. Utilized Bentley Hammer water model to analyze multiple surge scenarios for pipe selection and Air Release Valve placement.

FGUA/Lehigh Acres Pump Station Analysis, Lehigh Acres, FL – Project Engineer responsible for evaluating up to 25 pump stations in preparation for the construction of a new headworks at the wastewater treatment plant. Utilized Bentley SewerCAD & SewerGEMS for modelling the system integrated with GIS for demonstrating results and updating the client's infrastructure inventory, which includes 62 pump stations.

Westwinds and Grassy Pointe Reclaimed Water Distribution Systems, Tarpon Springs, FL – Project Engineer for modeling, design and FDOT permitting of ±14,000 LF of 4 and 6-inch reclaimed water mains and services in two existing neighborhoods and 1,900 LF of 8-inch reclaimed water main along US Alternate-19 installed by horizontal directional drill.

Westchase Reclaimed Water Transmission Main, Hillsborough County, FL – Project Engineer responsible for a planning evaluation and design of approximately 9,000 feet of replacement 16-inch reclaimed water main.

Design included Horizontal Directional Drill evaluation and calculations as well as material design and route evaluations. Also performed constructability analysis.

League City Water Master Plan, League City, TX – Updated hydraulic model in Bentley WaterGEMS with GIS for League City Texas, which included 500 miles of water mains, 10 booster pump stations and 35 MG of storage (ground and elevated). Developed existing average and peak water demands by evaluating monthly billing data and hourly meter readings for over 33,000 water meters to develop diurnal curves for each of 6 meter types. Utilized the City's future land use plan and report to determine future demands and project water supply needs to meet demand and address regulatory requirements. Evaluated existing capital improvement projects & updated the program based on model results.

Ms. Anastasio worked for Manatee County from June 2005 to May 2010. She began her career with Manatee County as an Intern IV – Student Worker and progressed to an Engineering Specialist II. Below are just two of the many projects she worked on while at the County.

- **Village of Parrish Wastewater Master Plan, Parrish, Florida** – Performed master planning and force main sizing for Village of Parrish Wastewater System, including 20 MGD Master Pump Station. Coordinated with consultants who were working on Manatee County North County Wastewater Master Plan and Parrish Wastewater System and Master Pump Station design engineers. Used G.I.S., Comprehensive Plan, water meter data, and development tracking to model multiple future build-out scenarios based on area and relative flow contribution for system sizing. Also researched and participated in determining pipe routes and Master Pump Station location.
- **Master Meter Improvements, Manatee County, Florida** - Designed 20 master meter replacement and relocation projects throughout Bradenton, Anna Maria, and Palmetto, which included coordinating with field personnel, inspectors, project managers, and other regulatory agencies; cost estimating; interpreting as-builts; and preparing plan sets.



David Weber, PE

Role

Utilities and Lift Stations

- Bay Indies Utility Relocations
Ph 1 & 2

Booster Station/Interconnect

- Water System Improvements
Phase 1, Potable Water
Booster Pump Station,
Storage Tank and Emergency
Regional Interconnection

Years of Experience

44 Years

Education

MS, Environmental
Engineering, 1977
BS, Civil Engineering, 1972
State University of New York at
Buffalo

Professional Credentials

Professional Engineer Florida
No. 29323

Memberships

Florida Engineering Society
Water Environment
Federation, Florida Chapter
American Water Works
Association

Project Experience

Englewood Water District, Englewood, FL – Project Engineer to model a wastewater pump station network with design to upgrade an existing pump station.

City of Sarasota Master Pump Station No. 10 Modifications, Sarasota, FL – Project Engineer for conversion of wet well/dry well station to a four-pump submersible with odor control and emergency generator for the City of Sarasota.

Master Pump Station No. 16 Improvements, Sarasota, FL – Project Engineer for study/design for addition of odor control treatment and wet well corrosion rehabilitation.

Hydraulic Modeling of Force Main Network System, Englewood Water District, Englewood, FL – Project Engineer for computer hydraulic model of the Englewood force main network including 25 lift stations and over 30-miles of force main. Model was used to determine design constraints for a master repump station.

Wakulla County Wastewater Treatment Plant, Collection and Transmission System, Medart, FL – Project Engineer responsible for project in Ochlocknee Bay and Panacea residential areas with a 12-mile force main to a 200,000 GPD Wastewater Treatment Plant and effluent disposal system in Medart, Florida.

City of New Port Richey Wastewater Treatment Plant, New Port Richey, FL – Project Engineer for effluent storage and high service reuse pump station with discharge by a new 36-inch reuse main.

Hillsborough County South Regional Effluent Storage and Reuse System, Hillsborough County, FL – Project Engineer for two 6-million-gallon effluent prestressed concrete storage tanks, master effluent pump station, 8- to 30-inch transmission mains, five repump stations for spray irrigation on five Sun City Center golf courses, and reuse at the Big Bend Unit 4 power plant. EPA-funded project that included design, construction, and startup services.

City of Pinellas Park Water Booster Pump Stations #1 and #2, Pinellas Park, FL – Project Engineer for addition of prestressed concrete water storage tanks.

Hillsborough County Waterset Reclaimed Water Storage and Pumping Facility, Hillsborough County, FL – Project Engineer to redesign a 5 million gallon prestressed concrete storage tank to a welded steel storage tank.

Sarasota County Venice Gardens Water Reclamation Facility, Phase 2 and 3 Improvements, Sarasota, FL – Project Engineer for two prestressed concrete aerobic digester tanks with fine bubble diffuser aeration and centrifugal blowers. Also involved the addition of effluent storage tank, pump station, and cloth tertiary filter.

Hillsborough County Lake Park Water Treatment Plant, Hillsborough County, FL – Project Engineer for this project which involved Computational Fluid Dynamics water quality modeling for two 5 million-gallon tanks to improve tank water quality.



O. Denise Greer, PE



Role

Civil / Stormwater

Project Assignment

- Bay Indies Utility Relocations
Ph 1 & 2
- Water System Improvements
Phase 1, Potable Water
Booster Pump Station,
Storage Tank and Emergency
Regional Interconnection
- Eastgate Utility Relocations
Ph 2 and 3
- Water Main Replacement
Ph 7 & 8

Years of Experience

30 Years

Education

Bachelor of Science, Civil
Engineering, 1987
Purdue University

Professional Credentials

Professional Engineer Florida
No. 47679
LEED Accredited Professional

Project Experience

Blind Pass Beach Park Septic System, Sarasota, FL – The County was experiencing failure in the north drain field at Blindpass Beach Park. Principal-in-Charge for a conditions assessment and engineering design for two new 1800 gpd septic systems, four new drain fields, abandonment of two existing septic systems and a pump station.

Bahia Vista Water Main Replacement, Sarasota, FL – Principal-in-Charge for the replacement of ±2,600 LF of existing 8-inch cast iron water main with 12-inch PVC pipe on a heavily treed and narrow street in an existing neighborhood. The project also includes new water service lines with meter boxes to lots along the project route. A separate design package for the crossing of Osprey Avenue was developed in advance of the remainder of the project to allow work in the intersection to be completed prior to an impending roadway improvement project along Osprey Avenue.

Manatee County BDS – Pelletizer Plant, Manatee County, FL – Principal-in-Charge / Engineer of Record for land use permitting and drainage design of new biosolids pelletizing plant at Manatee County's Southeast Water Reclamation Facility.

Fleet Services Bldg., Manatee County, FL - Project Manager for site development, design and permitting for a 20,000 sq. ft. design-build 12 bay fleet service facility on a 4.84 AC site with support offices, break room, records library, mezzanine, virgin fluids distribution to each bay, containment of recovered fluids. Scope also provided exterior landscaping and irrigation, retention pond, parking areas storm water piping, and utilities.

Utility Campus Improvements Study, Venice, FL – Lead Civil Engineer for the development of a detailed recommendation report to improve the long-standing Utility Campus and to visually improve the utility campus and incorporate changes for the benefit of pedestrians and bicyclists that are in the area since it is in close proximity to the Legacy Trail, the Venice Railroad Museum, and historic downtown Venice. The report also included ways to tie in the campus improvements with the future Legacy Park, while also complying with the federal Homeland Security requirements for public utilities.

Manatee County Sidewalk Projects, Manatee County, FL – Principal-in-Charge and Project Manager for construction management services for three separate sidewalk projects funded through Community Development Block Grants (CDBG) under Manatee County's Safe Routes to Schools Safety Program. The projects include the construction of ADA approved sidewalks, pedestrian bridges and roadway modifications along 57th Avenue, along the north side of 21st Street East from US Hwy 41 to 12th Avenue East, and sidewalk along the west side of 12th Street East from 61st Avenue East to 63rd Avenue East.

Tropical Shores Domestic Water, Sewer, and Roadway Improvements, Manatee County, FL - Engineer of Record and Design Engineer for the design of sanitary sewer and roadway for Manatee County assessment project. Project consisted of the design and permitting for domestic water, sanitary sewer, and paving of existing client roadways to serve existing community. Design included paving design, SWFWMD exemption, roadway, drainage maintenance analysis, domestic water, gravity sewer, force main, and lift station design. Design factors also included existing residential community, narrow right-of-ways, land acquisition, coordination between Manatee County and the City of Bradenton. Manatee County force main from proposed lift station was designed to discharge approximately 1.5 miles from the project and within the existing City of Bradenton rights-of-way.

Janie Poe Neighborhood Redevelopment, Sarasota, FL – Principal-in-Charge / Project Manager for ± 13.4 redevelopment project for the Sarasota Housing Authority. Project consisted of inquiry, design, permitting and construction management. Design included paving, grading water and wastewater, retrofit, stormwater design, FEMA map amendment. Property Management Building was LEED certified.

Palma Sola Trace, City of Bradenton, FL – Project Manager / Engineer of Record for ± 100 acre single family development with community recreation building and pool. Project consisted of design, permitting, and construction management. Design included stormwater drainage, utility, and roadway design. FEMA map amendment, one mile force main extension. Permitting through SWFWMD, City of Bradenton, FDEP, ACOE and FEMA. Design included the utility system consisting of 4-inch to 8-inch water mains, gravity sewers, a lift station, a one mile off site 3,600 LF force main, and 10,750 LF water main extension. Both the force main and water main were constructed through an existing neighborhood via horizontal directional drill

Port Manatee Scrap Metal, Manatee County, FL - Project Manager for the site design and permitting for a 25-acre industrial development on Harlee Road with more than 127,000 square feet of warehouse space adjacent to the port. The project included a three-story-high metal shredder and sorter. The engineering design work included utilities and drainage for the project. An off-site eagle's nest was discovered mid-project, resulting in quick changes to the design to keep the project moving. Also provided coordination of transportation planning and construction observation services, also provided by King.

Honore Avenue, Manatee County, FL - Project Manager / Engineer of Record for 1.7 miles of arterial roadway from University Parkway to Mote Ranch subdivision. Project consisted of design, permitting, and construction management for private developer within existing Manatee County right-of-way. Design parameters included stormwater drainage design for proposed and future lanes, various road section design, utility extensions (12-inch to 16-inch water mains) and relocations. Various road sections were proposed due to sensitivity to existing residential communities, existing jurisdictional areas, existing emergency access connections and connections to existing and future roadways. Construction engineering included bidding, contract documentation, responsible for construction inspection and certification.

Twin Rivers, Manatee County, FL - Project Manager / Engineer of Record and Design Engineer for Phase I & II of $\pm 1,820$ acre single family development. Project included final site plan coordination and engineering design and

permitting. Design included stormwater design, FEMA map amendment, utility design including off-site utilities consisting of 2.5 miles of 10-inch force main, 2.3 miles of 16-inch force main, and 1 mile of 12-inch water main within existing Manatee County right-of-way. Offsite utility design included participation in coordination for upgrading the required size of the force main, coordination with existing drainage structures, existing soft utilities, proposed MARS location, existing road and driveway crossings, and Gamble Creek subaqueous crossing.

BACC Hotel Project, Palmetto, FL – Principal-in-Charge and Project Manager for draining and grading design, construction plans, utility design, roadway design, permitting services, utility coordination, bidding assistance and construction observation for the development of two parcels north of the existing BACC in Palmetto, FL. Development will include a new six story hotel, which will be the headquarters hotel for the convention center. King will perform calculations required for stormwater and utility design. Permits will be required from SWFWMD, City of Palmetto, FDOT and FDEP. The project is in the City of Palmetto, but on property owned by Manatee County.

Cattlemen Multi-Family Project, Sarasota County, FL - Principal-in-Charge for the development and permitting of construction documents for a ± 300 unit condominium complex situated on a 26 acre tract of an overall 51 acre parcel within the I-75 corridor of Sarasota County. The project included planning and detailed design of water distribution systems; wastewater collection systems including lift station design, stormwater facilities and roadway systems internal to the 26 acre pump stations; and force mains modeling which also included sizing the required potable water system piping.

The project included the master planning for the future development of the site required incorporation of the entire 51 acre site into the Sarasota County wastewater, water and stormwater models. The wastewater lift station and collection systems were designed and sized according to the ultimate build-out of the site. As the most up-to-date County wastewater model was not yet readily available during this period, it was necessary to meet with County staff and conduct independent research to create a model that accurately reflected real-time conditions both upstream and downstream of the project.



Role

Civil Engineering / MOT

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection
- Eastgate Utility Relocations Ph 2 & 3
- Water Main Replacement Ph 7 & 8

Years of Experience

10 Years

Education

BS, Civil Engineering, 2008
University of Miami
Coral Gables, FL

Professional Credentials

Professional Engineer
Florida No. 76068

OSHA 30-Hr. Construction Safety

FDOT CTQP Asphalt Paving Level I & II

FDOT CTQP Q/C Manager
FDOT MOT
Advanced Certified Diver
National Association of Sewer Service Companies Certified

Memberships

American Society of Civil Engineers

American Water Works Association

Florida Engineering Society

Project Experience

Miami-Dade Water and Sewer Department, Consumer Line Relocation Program, Miami, FL – Project Manager for design, and program and construction management services for Phase 2A of the Consumer Line Relocation (CLR) program. The program consists of the conversion of over 2,730 water services from the rear to the front of the properties to abandon old, leaky, small diameter, rear water mains. Conversion involves installation of services from existing front water mains and relocating the water lines within the properties to a new water meter box in the front. At the County's request, 7 bid packages were prepared to facilitate award to small local contractors. All 7 bid packages were prepared on a fast-track basis within 9 months. Services included program management, property inventory, creation of an asset management system and dashboard, design, permitting, contract documents, owner notifications and securing agreements to work on private property, public official coordination, bidding support services, and construction management and inspections.

Miami-Dade Water and Sewer Department, Aventura FM Project, Miami FL – Project Manager. New and replacement force main consisting of approximately 9,000 linear feet of a 8-, 10-, 12-, 14- and 16-inch mains were required to service MDWASD pump stations 499, 471 and 470 as well as other privately owned sewage pump stations in the area to re-direct flows to a major transmission 36-inch force main. Major project components include the design of a new force main of which 6,015 linear feet PVC C900 will be installed via open cut and 2,985 linear feet HDPE will be installed via slip lining method to make minimal disruption to above ground facilities and vehicle traffic. The project also includes close coordination with FDOT for tapping of a 36-inch force main located on US-1 to which all flows will be directed to. The design accounts for future system expansion or improvements, utility relocations, roadway improvements, roadway resurfacing and applicable MDWASD water criteria standards.

13th Avenue North to 9th Avenue North Water Main Replacement, Safety Harbor, FL – Providing MOT design for 2,100 LF of replacement 12" water mains along with new services to affected properties and abandonment of the existing mains in residential neighborhoods.

Espiritu Santo Springs Subdivision & Washington - Brennan Subdivision, Safety Harbor, FL – Providing MOT design for 1,565 LF of new 2" and 6" water mains along with new services to affected properties & abandonment of the existing mains in residential neighborhoods.

60-Inch Force Main Installation under Norris Cut Channel, Miami-Dade Water & Sewer Department, FL – This \$75 million project involved the replacement of a 54-inch force main located underneath the Norris Cut Channel with a new 60- inch force main within a 96-inch tunneled carrier pipe, in preparation of the Federal Navigational Dredging Project. The force main replacement was successfully installed. As Project Controls Consultant, responsible for reviewing the contractor's baseline schedule review and monthly update review, providing cost estimating review for Design/Builder schedule of values, requests for proposals, and contract amendments. He was also responsible for negotiating, on behalf of the Owner, with the design/builder for change orders and other contractor claims.

I-595 Express Corridor Improvements Project – Segment E MOT Design, Broward County, FL – This public-private-partnership (PPP) project consisted of the reconstruction of 10.5 miles of the I-595 Mainline in Broward County Florida and 2.5 miles of the Florida Turnpike. Features of this project included three ground level reversible express toll lanes controlled by an Intelligent Transportation Systems (ITS); the addition of auxiliary lanes on I-595 along with combined ramps; cross-road bypasses; and grade-separated entrance and exit ramps (braded ramps) to minimize merge, diverge and weaving traffic. To facilitate the production of the project, the design and construction were divided into packages, segments, which were managed as individual design and construction projects.

Assistant Project Manager responsible for the final pavement design manual, roadway horizontal and vertical geometry, MSE vertical and horizontal geometry, barrier wall selection, drainage and drainage structures (manholes, culverts, bulkheads), ponds, conventional lighting, highmast lighting, pole mounted signing, truss mounted signing, pavement markings, misc foundations (drilled shafts), utility installation methods (HDD, J&B, Micro Tunneling), and traffic control plans with construction phasing. Led construction engineering and value engineering review. Responsible for all shop drawing reviews. Design manuals used included the FDOT Plans Preparation Manual, along with FDOT standard designs

Segment E consisted of over \$100 Million of construction including 2 miles of freeway widening and 3 new reversible lanes for a combined total of 11 lanes on the Florida Turnpike spanning from the Sunrise Blvd exit to the Hollywood exit and included the I-595 interchange.

I-595 Express Corridor Improvements Project – Segment D, Broward County, FL – Assistant Project Manager. Segment D consisted of over \$150 Million of construction including 4 miles of roadway (freeway and corridor road) widening and 3 new reversible lanes for a combined total of 14 lanes, spanning from Davie Road to I-595 and included the turnpike interchange and 441 interchange. Assistant Project Manager responsible for the final

pavement design manual, roadway horizontal and vertical geometry, MSE vertical and horizontal geometry, barrier wall selection, drainage and drainage structures (manholes, culverts, bulkheads), ponds and canals, conventional lighting, highmast lighting, pole mounted signing, truss mounted signing, pavement markings, signalization, misc foundations (drilled shafts), utility installation methods (HDD, J&B, Micro Tunneling), and traffic control plans with construction phasing. Led construction engineering and value engineering review. Responsible for all shop drawing reviews. Design manuals used included the FDOT Plans Preparation Manual & Florida Intersection Design Guide, along with FDOT standard designs.

Miami-Dade Aviation Department – Perimeter Road Bridge Replacement – MOT Design, Miami, FL - Project Manager and design technical lead responsible for 3 alternative designs for 1 mile of roadway and bridge for a total of 4 lanes, all including pavement marking and channelization. Project required preparation of a planning book for MDAD containing three conceptual bridge designs with an alternative analysis for the replacement of an out of date bridge at the Miami International Airport and adjacent access roads, including MOT plans. The project limits included two signalized intersection. MOT plans were required for each of the alternatives to demonstrate traffic impacts per alternative. Design manuals used included the FDOT Plans Preparation Manual, Florida Greenbook, Florida Intersection Design Guide, AASHTO, Standard Highway Signs Manual and Supplement, MUTCD, FDOT standard design drawings, MDAD Covenants, and FAA Covenants.

North District Conveyance Project NL-1A, Pump Stations PS-306 and NP-416E – Validation and Conceptual Design Report – Project Manager for a pipeline route analysis with alternative matrix, pump station site analysis, and the conceptual design for the selected pipeline routes. Also responsible for the development of the design services proposal, scope and fee negotiations, \$200,000 design fee contract execution and management.



Lizeth V. Mora, EI



Role

Booster Station /
Interconnect

Project Assignment

- Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection

Years of Experience

4 Years

Education

MS, Environmental
Engineering, 2016
University of Central Florida

BS, Environmental
Engineering, 2013
University of Central Florida

Professional Credentials

Engineering Intern License
No. 1100018174

Memberships

American Water Works
Association (AWWA)
Florida Water Environment
Association (FWEA)

Project Experience

Peace River Regional Integrated Loop System, Phase 1, Peace River Manasota Regional Water Supply Authority – Project Engineer for preliminary engineering design, permitting and construction management services for a new 6.3 mile, 24-inch potable transmission main delivering regional water from DeSoto County's South Booster Pump Station to the City of Punta Gorda's Shell Creek Water Treatment Facility including **interconnects** and metering facilities tying into the DeSoto County and City of Punta Gorda's water systems. The project includes a 3,500 LF horizontal directional drill under Shell Creek at the Hendrickson Dam.

Northeast WRF Grit Removal, Salsnes Filter, and Equalization System Improvements, Clearwater, FL – Project Engineer for performing hydraulic calculations and providing design and permitting services for a new **2 MG off-line equalization tank and associated pumping** and aeration systems, a stacked tray HeadCell grit removal system, Salsnes Filters and other miscellaneous piping and primary process modifications within the 13.5 MGD Northeast WRF.

Seawater Reverse Osmosis Water Treatment Plant, Nassau, Bahamas – Project Engineer for design and construction assistance for a new 1.3 MGD seawater reverse osmosis treatment plant including two seawater wells, pretreatment, reverse osmosis skids and post treatment carbon dioxide, calcium and chemical feed systems, **a 1.5 MG ground storage tank; a high service pump station** and metering assembly and distribution system improvements.

Miami-Dade Water and Sewer Department (MDWASD) – Pump Station 62, Miami, FL – Project Engineer responsible for the design of a conventional wet pit/dry pit pump station and a triplex submersible pump station. Other duties included the preparation of cost estimates and the analysis of historical maintenance data to conduct a present worth cost comparison of both pump station configurations.

City of Venice Reclaimed Water Main Distribution System Improvements, Venice, FL – Project Engineer for the design, permitting, bidding/award assistance and construction administration for the installation of 3,000 LF of reclaimed water distribution mains primarily via horizontal directional drill. The project also included replacing non-functioning valves and air release valves on transmission mains and development of a detail for new air release valve manholes that allows for better access and ease of maintenance. The design also including assessing the condition of two abandoned force mains during construction, which were later discovered to be asbestos cement and not worth re-using.

Cast Iron Water Main Assessment Program - Phase 1, Venice, FL – Project Engineer responsible for GIS analyses and mapping services to assist the City with determining the locations and remaining amount of unlined cast iron and galvanized water main throughout the City, and also developing a report summarizing technologies currently available to assess the condition of the pipe.



Kaitlin N. Dulaney, EI

Role

Utilities & Lift Stations

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Eastgate Utility Relocations Ph 2 & 3
- Water Main Replacement Ph 7 & 8

Years of Experience

2 Years

Education

Bachelor of Science
Civil Engineering, 2015
University of Alabama

Project Experience

City of Venice Water Main Program Phases 5, and 6, Venice FL – Engineer for the design, permitting, bidding/award assistance and construction services for Phases 5 and 6 of the City's Water Main Replacement Program aimed at replacing aged, small diameter water mains in rear lots with new, larger mains in the City right-of-way. For Phase 5, assisting with shop drawing review and Contractor coordination, preparation of IFCA's, pay-app quantities, responses to RFI's, preparation of FDEP WM clearance packages and as-built review. For Phase 6, assisting with water main design and private property coordination for water service line routes, responsible for utility coordination, cost estimation, and technical specifications. Responsible for field verification of existing water meters and GIS data retrieval & FDEP and Sarasota County ROW permit submittals.

North Bayshore Sanitary Sewer and Force Main Replacement, Safety Harbor, FL – Engineer for design and cost estimation of 1,700 LF of sanitary sewer and force main. Performed quantity takeoffs and obtained data/costs from suppliers. The proposed force main is designed to replace the existing 4-inch force main that is to be abandoned. It also includes construction of approximately 1,850 LF of 8-inch SDR-35 PVC to serve as a gravity sewer through a total of 11 new manholes. The system is designed to replace the existing brick manholes, and vitrified clay pipe that currently serve the area. Gravity sewer system includes connection to 5 existing sewer mains, and connection to 1 existing lift station.

Upper Peninsula Watershed Drainage Improvement Dale Mabry/Henderson Stormwater Trunk Line Design-Build Project, Tampa, FL – Engineer for design, permitting, and construction services of utility relocations (including 2-inch to 12-inch potable and reclaimed water mains, and 8 to 27-inch sanitary sewers) along 8,100 linear feet of residential corridor associated with the construction of a new 9'x6' concrete box culvert to alleviate flooding in south City of Tampa. The design of new utilities includes parallel water and sewer utilities along both sides of the right-of-way, resulting in approximately 15,000 LF each of new potable water and sewer utilities and new services and laterals to affected lots. The corridor includes numerous "grand" trees, requiring an integrated approach using both trenchless and open cut installations.

Seabreeze Drive Sanitary Sewer Alternatives Analysis, Tarpon Springs, FL – Engineer responsible for designing the route, sizing the piping, estimating construction, life cycle, and operation and maintenance costs of a low pressure sanitary sewer system to serve a 66 lot residential neighborhood.

Peace River Water Authority Regional Loop System Phase 3B, Sarasota County, FL – Engineer assisting with the cost estimate and project specification manual for approximately 4 miles of 48-inch potable water transmission main.

Peace River Water Authority Regional Loop System Phase 1, Charlotte and DeSoto Counties, FL – Engineer assisting with the cost estimate and project specification manual for approximately 6 miles of 24-inch potable water transmission main and interconnects with DeSoto County's and the City of Punta Gorda's water systems.

Westwinds/Grassy Pointe Residential Reclaimed Water Distribution System Retrofit, City of Tarpon Springs, FL – Engineer assisting with construction management efforts including review of shop drawings and cost estimation for ±14,500 LF of 2-inch through 8-inch reclaimed water mains along with new services and meter boxes in two heavily treed residential neighborhoods and ±3,000 LF of 8-inch transmission main along U.S. Alternate 19 and Terrace Road.



Role

Booster Station/
Interconnect

Project Assignment

- Water System Improvements Phase 1, Potable Water Booster Pump Station Storage Tank and Emergency Regional Interconnection

Years of Experience

5 Years

Education

BS, Civil Engineering
2013, University of
Florida

Professional Credentials

Engineering Intern
License No. 1100018193

Memberships

Solid Waste Association
of North America

American Society of Civil
Engineers (ASCE)

Project Experience

Logan Booster Pump Station Modifications, Largo, FL – Project Engineer for the design, permitting, and construction of a new 30 MGD potable water pumping facility including a 3,200 sq. ft. pump building, four (4) new 7.5 MGD, 250 HP horizontal split case pumps with variable frequency drives, a new 1,500 kW standby diesel generator set, 36-inch, 24-inch, & 18-inch yard piping & valves interconnecting the existing ground storage tanks, PLC & SCADA upgrades, instrumentation & electrical system modifications.

Seawater Reverse Osmosis Water Treatment Plant Intake Pump Station, Nassau, Bahamas – Project Engineer responsible for design services for an initial concept for using saline surface water as a source for the plant. Performed modeling and design services for the surface water intake structure, a 2.6 MGD supply pump station, roughly 2,000 LF of 24-inch raw water piping and pretreatment break and backwash supply tanks.

Peace River South Regional Transmission Main I-75 Construction Mitigation, Sarasota County, FL – Project Engineer for design and construction services for a protection system, including a vehicle bridge, to mitigate potential loading by construction vehicles, pile driving and cranes on the Peace River/Manasota Regional Water Supply Authority's existing shallow 36-inch PCCP water transmission main.

Bahia Vista Water Main Replacement, Sarasota, FL – Project for the replacement of ±2,600 LF of existing 8-inch cast iron water main with 12-inch PVC pipe on a heavily treed and narrow street in an existing neighborhood. The project also includes new water service lines with meter boxes to lots along the project route. A separate design package for the crossing of Osprey Avenue was developed in advance of the remainder of the project to allow work in the intersection to be completed prior to an impending roadway improvement project along Osprey Avenue.

University of Florida Campus Potable Water Main Modeling, Gainesville, FL – Project Engineer charged with creating a hydraulic model of the entire campus potable water main, utilizing GIS data, maps provided by the University's Physical Plant Division and information provided by the City's utility company for the surrounding system feeding the campus. Responsibilities included coordination with members of the University's Physical Plant Division to clarify data in the maps provided and to obtain relevant hydrant flow tests in order to simulate the line pressure in the campus system. The project required the smooth transition between three different computer programs (ArcGIS, AutoCAD, and WaterCAD), and the ability to explain the hydraulic model development process and outline the model results in a technical memorandum to the University.

Memorial Causeway Pipelines, Clearwater, FL - Project Engineer for construction management of a new 2,500 LF, 24-inch diameter replacement force main under Clearwater Harbor being installed via Horizontal Direction Drill (HDD) and a new 1,500 LF of 20-inch water main under the Intracoastal Waterway via HDD. The project also included extensive permitting requirements with the US Army Corps of Engineers and FDEP for a Submerged Lands Easement.



Mariana Evora, El



Role

Utilities and Lift Stations

Project Assignment

- Bay Indies Utility Relocations
Ph 1 & 2

Years of Experience

4 Years

Professional Credentials

Engineering Intern – No.
1100018723

National Association of Sewer
Service Companies Certified

Languages

English – Fluent
Spanish – Fluent

Project Experience

Miami-Dade Water and Sewer Department, Consumer Line Relocation Program, Miami FL – Design Manager for design, program and construction management services for Phase 2A of the Consumer Line Relocation (CLR) program. The program consists of the conversion of over 2,730 water services from the rear to the front of the properties to abandon old, leaky, small diameter, rear water mains. Conversion involves installation of services from existing front water mains and relocating the water lines within the properties to a new water meter box in the front. At the County's request, 7 bid packages were prepared to facilitate award to small local contractors. All 7 bid packages were prepared on a fast-track basis within 9 months. Services included program management, property inventory, creation of an asset management system and dashboard, design, permitting, contract documents, owner notifications and securing agreements to work on private property, public official coordination, bidding support services, and construction management and inspections.

Small Diameter Water Main for Leisure City Phase I and II – Engineer. Part of the MDWASD Small Water Main Replacement Program for the replacement of undersized water mains due to excessive leakage, water quality concerns and fire protection issues. This design includes the installation of approximately 24,000 LF of 8-inch Ductile Iron Main (DIM) and 600 LF of 6-inch DIM for the installation of fire hydrants within the Leisure City Area (unincorporated Miami Dade County) for the replacement of 2, 4 and 6-inch lines currently servicing the area mainly through back easements of the properties, approx. 510 properties will be later on serviced from this new main.

PSIP Pump Stations and Force Mains, Miami-Dade, FL – Engineer. Ms. Mariana Evora, along with a team of engineers at King has participated in numerous wastewater projects as part of the MDWASD Pump Station Improvement Program (PSIP), put in place to upgrade over 113 sewage pump stations. To this date Ms. Evora has participated in the design of ten (10) pump stations and four (4) force mains. The scope of work includes design, permitting, procurement assistance as well as limited construction services for all projects. In order to meet consent decree requirements some of the pump stations and force mains were designed and permitted in a fast track pace in order to meet construction completion by the end of 2015.

Miami-Dade Water and Sewer Department, Aventura FM Project, Miami FL – Project Manager. New and replacement force main consisting of approximately 9,000 linear feet of a 8-, 10-, 12-, 14- and 16-inch mains were required to service MDWASD pump stations 499, 471 and 470 as well as other privately owned sewage pump stations in the area to re-direct flows to a major transmission 36-inch force main. Major project components include the design of a new force main of which 6,015 linear feet PVC C900 will be installed via open cut and 2,985 linear feet HDPE will be installed via slip lining method to make minimal disruption to above ground facilities and vehicle traffic. The project also includes close coordination with FDOT for tapping of a 36-inch force main located on US-1 to which all flows will be directed to. The design accounts for future system expansion or improvements, utility relocations, roadway improvements, roadway resurfacing and applicable MDWASD water criteria standards. Ms. Evora was responsible for oversee the design and performing QA/QC reviews of the project.

Construction of City of Miami Beach Stormwater Pump Stations on 10th and 14th Street and seawall re-construction – City of Miami Beach, FL - Project Engineer for the construction of two stormwater pump stations meant to fight the rising sea level flooding. Each project consisted in the installation of a diversion box, dissipater box, wet well, grate box, a junction box and drainage defender, 72" and 60" RCP, two Pumps with a combined rated capacity of 14,000 gpm, as well as the installation of Tideflex valves and other mechanical piping. As Project Engineer, worked hand by hand with the Project Manager on all day-to-day activities for coordination of daily field operations and subcontractors up to project completion.

Pump Station 65 Upgrade, Miami, FL – Project Engineer for the upgrade of over 113 sewage pump stations. This pump station was part of the Miami-Dade Water and Sewer Department (MDWASD) Pump Station Improvement Program (PSIP). Service included converting the existing dry well / wet well pump station to a submersible pump station with a rated capacity of 650 gpm. This project had a 2015 EPA deadline, requiring an accelerated schedule. The full design & permitting was completed in less than 4 months. Pump Station 65 was the first pump station in the PSIP to be completed by a design consultant. It served as the pioneer pump station setting a paradigm for all other PSIP pump stations to follow.

Pump Station 67 Upgrade, Miami-Dade, FL - Project Engineer for the conversion of an existing dry well / wet well pump station to a submersible pump station with a rated capacity of 500 gpm. This pump station was part of the Miami-Dade Water and Sewer Department (MDWASD) Pump Station Improvement Program (PSIP). The full design & permitting was completed in less than 5 months.

Pump Station 500 Upgrade, Miami-Dade, FL – Project Engineer for the conversion of an existing dry well / wet well pump station to a submersible pump station with a rated capacity of 730 gpm. The pump station project was part of the Miami-Dade Water and Sewer Department (MDWASD) Pump Station Improvement Program (PSIP). This project had a 2015 EPA deadline, requiring an accelerated schedule. The full design & permitting was completed in less than 4 months.

Pump Station 502 Upgrade, Miami-Dade, FL – Project Engineer for the conversion of an existing dry well / wet well pump station to a submersible pump station with a rated capacity of 600 gpm. This pump station was part of the Miami-Dade Water and Sewer Department (MDWASD) Pump Station Improvement Program (PSIP). Due to physical

limitations on the project site, the design required extensive coordination with the MDWASD maintenance staff in order to ensure that pump station layout fit the needs of the department from an operations and maintenance perspective.

Pump Station 026 Upgrade, Miami-Dade, FL – Project Engineer for the upgrade of submersible pumps station with a capacity of 2200 gpm. This pump station was converted from a duplex station to a triplex station with VFD's and above ground discharge piping. The design also incorporated a new generator and fuel tank set as well as a flow meter for recording instantaneous and average flows. This pump station was part of the Miami-Dade Water and Sewer Department (MDWASD) Pump Station Improvement Program (PSIP).

Pump Station 109 Upgrade, Miami-Dade, FL – Project Engineer for the conversion of an existing dry well / wet well duplex pump station to a submersible triplex pump station with a rated capacity of 2400 gpm. This pump station was part of the Miami-Dade Water and Sewer Department (MDWASD) Pump Station Improvement Program (PSIP). The design also incorporated a new generator and fuel tank set as well as a flow meter for recording instantaneous and average flows. Site counts with very limited space, due to these physical limitations on the project site, the Flow Meter Vault was proposed to be installed on an easement adjacent to the pump station site, the design required extensive coordination with the MDWASD maintenance staff in order to ensure that the proposed layout fit the needs of the department from an operations and maintenance perspective.

Pump Station 836 Upgrade, Miami-Dade, FL – Project Engineer for the upgrade of submersible pump station with a capacity of 300 GPM. Upgrades were meant to bring pump station 836 into compliance with peak flow criteria and Consent Decree Regulations. The full design & permitting was completed in less than 5 months.

Pump Station 1201 Upgrade, Miami-Dade, FL – Project Engineer for the conversion of an existing dry well / wet well pump station to a submersible pump station with a rated capacity of 600 gpm. This projects includes complex structural design for the reuse and conversion of the existing wet well and dry well structures. Design also accounts for the installation of a new generator and fuel tank set along with an odor control system. This pump station was part of the Miami-Dade Water and Sewer Department (MDWASD) Pump Station Improvement Program (PSIP).



Cristina Lacorazza



Role

Utilities and Lift Stations

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2

Years of Experience

8 Years

Education

BS, Environmental Engineering, 2009
University of Los Andes

Modeling Software

WaterGEMS, SewerGEMS
SewerCAD, WaterCAD
AutoCAD, ArcMap & EPANet

Project Experience

Green Springs Water Main Replacement Project, Safety Harbor, FL - Project Engineer for the design, permitting, and bidding of 5,700 LF of replacement water mains and service connections to existing meters in an existing residential neighborhood. Services included: construction of 1,000 LF of 6-inch PVC water mains by open-cut installation methods, construction of 4,700 LF of 6-inch PVC water mains by horizontal directional drill (HDD) methods, installation of approximately 80 water service laterals, installation of valve and appurtenances, installation of fire hydrants, abandonment of existing water mains by grout, restoration of curb, driveways, sidewalks and site restoration.

University of Florida Campus Potable Water Main Modeling, Gainesville, FL – Engineer responsible for performing the hydraulic modeling of the entire campus using WaterCAD to evaluate the current pressure issues and determine the possible cause of and potential solutions to the pressure problems. Responsibilities included coordinating with members of the University's Physical Plant Division to obtain relevant hydrant flow tests in order to simulate and calibrate the campus system model, explaining the hydraulic model development process and outlining the model results in a technical memorandum to the University. Computer programs used to develop the project were ArcGIS, AutoCAD Civil 3D, and WaterCAD.

Lift Station 54 Force Main Extension, Pinellas County, FL – Engineer responsible for performing developing a Bentley SewerCad model of an existing gravity sewer collection system to determine the cause of surcharging and overflows during rain events. Also included modeling of an existing 8-inch force main and pump station to determine the effects of extending the discharge point of the force main further downstream. Following the analysis, served as Engineer for the design and permitting of extension of the force main $\pm 1,500$ LF and changing its discharge location from a manhole directly into the wet well of Lift Station 54 on Indian Rocks Road.

Pinellas Park Interceptor Collection System Improvements Preliminary Engineering Report, Pinellas County, FL – Engineer responsible for performing the hydraulic modeling of a 2-mile long, 42-inch diameter sewer interceptor to determine the capacity and operation conditions at which surcharging and overflow begins. Assist with the alternatives and recommendations for the improvements explaining the hydraulic model and results in a PER.

Bellair Bluffs/Indian Rocks Road SSO Abatement Project Pump Station 054 – Forcemain Extension Design, Permitting and Construction Services, Pinellas County, FL – Engineer responsible for performing the hydraulic modeling of the gravity sewer system along Avocado and Indian Rocks Road, to Pump Station 54, to determine the capacity and operation conditions at which surcharging and sanitary sewer overflow begins. Also, confirm that extension of the force main will alleviate the potential for SSOs. Assist with the recommendations for the improvements explaining the hydraulic model and results in a PER.

Design-Build for River Oaks Diversion Project, Hillsborough County, FL – Engineer charged with creating the hydraulic model to assist with the design criteria package for Design-Build of a ±5,000LF new 36-inch ductile iron force main that will divert the incoming flow of wastewater that is currently collected and treated at the River Oaks AWTF to the new 24-MGD wastewater pump station, and an approximately ±12,900LF 30-inch ductile iron force main that will convey the water from the new pump station and discharge it into the 36-inch connection point. Responsibilities included hydraulic calculations followed by engineering evaluations to size and select equipment for the 24 MGD pump station.

Brackish Water Reverse Osmosis Water Treatment Plant, Confidential Client – Engineer responsible for performing a hydraulic model using Bentley WaterCAD to help design the permeate and concentrate system of the water treatment plant.

Seawater Reverse Osmosis Water Treatment Plant, Nassau, Bahamas – Engineer for design assistance for a new 1.3 MGD seawater reverse osmosis treatment plant including two seawater wells, pretreatment, reverse osmosis skids, post treatment carbon dioxide, calcium and chemical feed systems, a 1.5 MG ground storage tank; a high service pump station. Responsible for development of hydraulic models of the raw water, permeate and concentrate disposal systems and for sizing pumps, pipes and process equipment.

City of Sarasota WRF Headworks – Engineer responsible for performing the hydraulic modeling of the five (5) influent force mains to estimate maximum flow conditions in the influent piping system to design the influent pipe to the head works. Assist with the recommendations for the improvements explaining the hydraulic model and results in a BODR.

Advanced Wastewater Treatment Facility (AWTF) Clarifier Refurbishment, Tarpon Springs, FL – Engineer assisting with the design of the refurbishment of two clarifiers at the Tarpon Springs AWTF. Services include design, project coordination, cost estimation, review of and recommendations for construction materials, quality assurance, bidding assistance and construction management. Design will include development of a new design of the sludge suction interface at the base of the center column and retrofitting the existing structure to the new scraper design. Services also includes the installation of a permanent dewatering system around both clarifiers, rehabilitation of the internal clarifier equipment and removing/replacing metal and FRP components.



Lisel Suarez



Role

Utilities

Project Assignment

- Water Main Replacement
Ph 7 & 8

Years of Experience

1.5 Years

Education

BS, Civil Engineering, 2017
Florida International University

Project Experience

Miami-Dade Water and Sewer Department, Consumer Line Relocation Program, Miami FL – Engineer for design, and program and construction management services for Phase 2A of the Consumer Line Relocation (CLR) program. The program consists of the conversion of over 2,730 water services from the rear to the front of the properties to abandon old, leaky, small diameter, rear water mains. Conversion involves installation of services from existing front water mains and relocating the water lines within the properties to a new water meter box in the front. At the County's request, 7 bid packages were prepared to facilitate award to small local contractors. All 7 bid packages were prepared on a fast-track basis within 9 months. Services included program management, property inventory, creation of an asset management system and dashboard, design, permitting, contract documents, owner notifications and securing agreements to work on private property, public official coordination, bidding support services, and construction management and inspections.

Peace River Manasota, Regional Water Supply Authority – Engineer – This project includes the design of approximately 33,600 LF of a 24-inch Ductile Iron Transmission Main and associated appurtenances and meter assemblies for the Shell Creek WTP/DeSoto County Interconnect (Regional Loop Phase 1). Ms. Suarez was the Task Support Design Engineer in charge of the design and plans preparation using AutoCAD.

Pump Station Improvement Program Pump Stations, Miami-Dade, FL – Engineer - King has participated in numerous wastewater projects as part of the MDWASD Pump Station Improvement Program (PSIP), put in place to upgrade over 113 sewage pump stations. To this date Ms. Suarez has participated in the design of two (2) pump stations. The scope of work includes design, permitting, procurement assistance as well as limited construction services for all projects.

Ms. Suarez was the Transportation Design Engineer involved in multiple pipeline projects. Project duties include, but are not restricted to: Design of Maintenance of Traffic, Milling and Resurfacing, Signage and Pavement Markings. Review of CADD designs and plans sheets using AutoCAD while complying with the design standards. Design manuals used included the FDOT Plans Preparation Manual, AASHTO, Standard Highway Signs Manual and Supplement, MUTCD, and FDOT standard designs, and City of Tampa Technical Standards for Transportation. **Projects Ms. Suarez provided these services on include those listed in the following table.**

CLIENT	PROJECT	Year
City of Safety Harbor	North Bayshore Sanitary Sewer and Force Main Replacement	2018
City of Safety Harbor	Water Main Replacement	2018
Pinellas County	102 nd Ave and Brian Dairy Road Sewer Lining	2018
Pinellas County	Force Main Air Release Valve Replacement	2018
Tampa Airport Pipeline Corporation	Gandy Jet Fuel Line Relocation	2018
Tampa Airport Pipeline Corporation	Tia Jet Fuel Line Relocation	2018
MDWASD	12, 14 & 16-inch Aventura FM	2018
City of Tampa	MacKay Bay Solid Waste Transfer Station	2018
City of Doral	Roadway Milling and Resurfacing	2017
City of Doral	Typical Roadway Lighting	2017



Orlando Serrano Jr.



Role

Construction
Inspection/Observation

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2

Years of Experience

31 Years

Education

AS, Engineering
Technology, 1987, ITT
Institute of Technology

Professional Credentials

FDEP Stormwater Erosion
& Sedimentation Control

Project Experience

Idlewild/The Mall Sanitary Sewer System, Clearwater, FL – Senior Field Representative for installation of a new sanitary sewer and stormwater collection system in established communities. The project included the installation of 99 new precast sanitary manholes, 22,075 LF of sanitary sewer pipe, connection of over ~450 homes to the collection system, abandonment of septic tanks, coordination with residents for work on private property, installation of precast stormwater structures and 3900 LF of 15-inch to 42-inch RCP drain pipe, relocation of existing water and gas mains, new water services and complete road restoration.

Kapok Flood Improvement, Clearwater, FL – Construction Manager for the conversion of an existing mobile home park into a City park with nature trails, rest facilities, a major storm water management system and flood control structures. Responsible for coordination between the City's representatives and the awarded contractor, QA services, schedule review, process of payment, claims and change order analyzes, submittal review and contract management.

Kapok Terrace Sanitary Sewer System, Clearwater Florida - Construction Manager for for the installation of approximately 7,500 LF of 8-inch gravity sewer mains, 35 manholes, water main relocations, new water services and new laterals and abandonment of 130+ individual septic systems on private property in an existing residential neighborhood.

Calm Harbor Water Supply System, Hillsborough County, FL – Construction Manager for construction services, including full-time field representation and close out services, for 4,500 LF of 6-inch and 8-inch potable water mains for interconnection with the County's existing water system. Serving as the County's Project Manager's liaison with the contractor and assist the contractors with carrying out the intent of the Contract Documents and County standards. Also responsible for tracking quantities and materials and preparation of filing of data into the County's Comprehensive Asset Management Systems (CAMS).

Wet Weather Forcemain and Monitoring System, Largo, FL – Senior Field Representative for the installation of 12 miles of new 12-inch to 30-inch force mains through existing residential and commercial neighborhoods and the upgrade of 6 major pump stations. Installation methods included open cut, 23-horizontal directional drilling operations (under US-19, wetlands, Taylor Lake and the Bayou) and 3-jack & bore operations under railroad crossings.

Bahia Vista Water Main Replacement – Phase 1, Sarasota, FL – Construction Manager for the replacement of existing 8-inch cast iron water mains with new 12-inch ductile iron pipe within the intersection with Osprey Avenue on a heavily treed and narrow street in an existing neighborhood. Responsibilities include Shop Drawing review and coordination between King's Field Representative, the City and the Contractor.

Westchase Reclaimed Water Transmission Main, Hillsborough County, FL – Construction Manager for the installation of 9,000 LF of 16-inch HDPE reclaimed water main along Linebaugh Avenue through and existing residential and heavily landscaped neighborhood.

US-301 Force Main (Valencia Lakes to SR-674) Hillsborough County, FL - Senior Field Representative for installation of a new 30-inch force main. The project included the installation of 1.5 miles of PVC and DIP 30-inch force main, 150 LF of 48-inch jack and bore casing under US 301, 2100 LF of 30-inch FPVC horizontal directional drill under wetlands and connects to existing utilities.

River Oaks Diversion Design-Build Project Hillsborough County, FL – Construction Manager and Field Representative for a new 24-MGD wet pit – dry pit, self-cleaning wastewater pump station, ± 5,000 LF of new 36-inch forcemain and ± 12,900 LF of 30-inch forcemain, to divert all flows from the service area of the existing River Oaks AWTF (ROAWTF) & pump to the recently-expanded Northwest Regional WRF. Following a successful system startup, the existing ROAWTF will be decommissioned & razed. Also includes 12,750 LF of new 20-inch reclaimed water main by horizontal directional drill, & a new 35-MGD cascade-type aeration outfall structure.

Ulmerton Road (SR-688) Utilities Relocation City of Largo, FL - Senior Field Representative for the installation of a new sanitary sewer collection system that replaced an existing system for the expansion of SR 688. The project included the installation of five (5) new precast sanitary manholes installed in vertical shafts, 660 LF of VCP sanitary sewer pipe using Micro-tunneling technology, connecting the collection system to the existing system without disrupting flow or service.

City of Sarasota Water Reclamation Facility Headworks Improvement and Filter Replacement – CMAR Delivery, Sarasota, FL – Construction Manager providing construction management services for expansion of an existing headworks and filter improvements. Filter improvements consist of retrofitting two of the City's existing five traveling bridge sand filters with two 12 MGD AquaDiamond cloth media filtration systems. The project includes demolition of existing equipment, retrofitting the filter basin with the cloth media filtration system, filter backwash water pumping and associated hydraulic improvements. The improvements to the existing elevated headworks include a new 36-inch mechanical screen, screenings compacting and conveying equipment, a new influent flow distribution chamber and modifications to the existing raw sewage influent piping to eliminate bottlenecks in the system.

City of Tampa Minor Contract Water Work – Senior Field Representative for emergency and scheduled work required for the City's water distribution system. The project included coordinating water main shutdown and water service outages so that corrections and repairs could be performed. Work elements ranged from replacement of water main segments including valves and fitting, upgrade of fire protection metering systems and the installation of major master water metering systems including double check valve mode.

South Cross Bayou / Reclaimed Water Capital Improvements Program, Pinellas County, FL - The County was under a consent order to discontinue wastewater discharge into Joe's Creek/South Cross Bayou and discharge of secondary effluent into deep ground well injection at their South Cross Bayou Water Reclamation Facility. To comply, initial projects involved the design and construction of reclaimed mains and supporting facilities, i.e. master and booster pump stations and treatment facilities, for the distribution of reclaimed water for irrigation to residential/commercial properties. After the infrastructure was in place, the County performed a number of upgrades /improvements to the South Cross WRF increasing capacity of the facility from 11 MGD to 32 MGD. The total cost of the entire program improvements was an estimated \$140 million.

Mr. Serrano was the Program Construction Manager for the County's program projects listed below. For these projects, he performed site /plant Contract Management, Contract Compliance services and Quality Assurance for construction duties.

- South Cross Bayou WRF Phase IIB
- Old Ridge Road RCW Distribution Line
- South Gulf Beaches RCW Distribution
- McKay Creek RCW Pump Station
- West Pinellas FM & RCW Pipelines
- Pump Station 016
- Oakhurst Road FM & RCW Pipelines
- Boca Ciega Lift Station. Upgrades
- William E. Dunn Water Reclamation Facilities Improvements Phase I, II, and III



Brett E. Meyer



Role

Construction Inspection & Observation

Project Assignment

- Water System Improvements Phase 1, Potable Water Booster Pump Station Storage Tank and Emergency Regional Interconnection
- Water Main Replacement Ph 7 & 8

Years of Experience

30 years

Education

BS, Mechanical Engineering, 1980
Elmira College, New York

Project Experience

Galvanized Water Main Replacement Program, Pinellas County, FL – Field Representative responsible for providing full-time site observation for this replacement program in which King was assigned 11 contracts for replacement of ± 45 miles of water mains. The overall program included replacement of over 140 miles of galvanized water mains in existing neighborhoods with new PVC, HDPE and ductile iron water mains, depending on hydraulics and on fire hydrant spacing requirements. Performed full-time construction observation coordinating construction services with five different contractors over a period of 18 months.

Southwest Water Treatment Plant, Pasco County, FL – Senior Field Representative for construction of over 7,000 LF of raw water collector mains installed by directional drilling, a 2.0 MGD treatment facility with chloramines disinfection, a 4.0 MG finished water storage tank, and a 7.5 MGD high service pumping station. The tank was constructed primarily below ground in order to address aesthetic concerns in this residential neighborhood. The project included sitework, yard piping, closed circuit security systems, and a 2,700 sf building housing the pumping station, chemical storage and feed systems, standby power generator, electrical and I&C systems and a computerized maintenance management system.

Southeast Water System, Pasco County, FL - Senior Field Representative for construction of wellfield modifications, construction of a new well, 3.1 miles of raw water mains, 5.3 miles of potable water mains, and a new water treatment facility including a 5 MG ground storage tank, a chloramination disinfection system and a 14 MGD high service pump system.

West-Central Reuse Interconnect, Pasco County, FL – Senior Field Representative for construction of two 5 and 2.3 MG ground storage tanks, a 5 MGD, 125 psi reclaimed water pumping station, hydropneumatic systems, electrical buildings, and sitework at the Odessa and Land O'Lakes Wastewater Treatment Plants and 12 miles of transmission main interconnecting Pasco County's West and Central wastewater/reuse service areas. The pipeline portion of the project included 63,800 LF of 24-inch reclaimed water main interconnecting the two pump stations, 44,000 LF of 24-inch potable water main, and 4,400 LF of 12-inch, 20,000 LF of 16-inch, and 9,000 LF of 20-inch force main.

Peace River Regional Integrated Loop System, Phase 2, Peace River Manasota Regional Water Supply Authority – Full-time Field Representative for this 7-mile, 42-inch ductile iron transmission main including three meter stations and interconnects with the City of North Port's and Charlotte county's water systems, 5 interconnections with existing transmission mains, line valves, air valves and blow-offs. Responsibilities included review, comments and recommendations on shop drawings, RFIs and pay application review, monitoring daily construction activities and maintaining accurate logs through preparation of daily construction reports, as well as coordination between the Owner and the contractor. Also coordinated and attended inspections and final walkthroughs.

Wet Weather Forcemain and Monitoring System, Largo, FL – Senior Field Representative for the installation of 12 miles of new 12-inch to 30-inch force mains through existing residential and commercial neighborhoods and the upgrade of 6 major pump stations. Installation methods included open cut, 23-horizontal directional drilling operations (under US-19, wetlands, Taylor Lake and the Bayou) and 3-jack & bore operations under railroad crossings.

Causeway Force Main and Water Main Replacement, Dunedin, FL – Field Representative for construction of 17,000 LF of 8", 10" and 14-inch HDPE force main installed via open cut and horizontal directional drill (HDD), and 8,000 LF of 8-inch/18-inch PVC water main installed via open cut with 3,500 LF of subaqueous force main HDD under St. Joseph Sound.

Central Pasco Water and Wastewater System Improvements, Pasco County, FL – Field Representative for construction of a project that included a total of 145,900 LF of 16-, 24- and 36-inch potable water mains and force mains, and 53,000 LF of fiberoptic cable in northern and eastern Pasco County. The pipeline construction included three subaqueous crossings, approximately 900 LF each, of creek beds and wetland areas by horizontal directional drilling using 24-inch HDPE and 30-inch jointed ductile iron pipe. Specific duties included assistance with easement procurement, review of payment applications, requests for information, field observation, startup observation and testing for the pipeline and fiber optic systems.

Rehabilitation of Lift Station #33 and #42, Clearwater, FL – Field Representative for improvements to two submersible sanitary sewage pump stations. Lift Station #33 included complete demolition of the existing station and replacement with a new fiberglass, pre-packaged pump station, a new elevated valve box and service platform along with a set of aluminum stairs for access. Lift Station #42 included structural repairs and new spray on lining of the wet well, new stainless steel riser pipes, replacement of discharge valves, a new odor control system and repairs to the existing generator radiator system.

Pump Stations 76, 77 & 78, Redington Beach, FL – Field Representative for construction services for three new pump stations constructed in the coastal community of Redington Beach. The existing pump stations were a part of an aging system that deteriorated over time. Pump Station 76 was a 6'-diameter wetwell refurbished in place, posing difficulties in design due to its location

immediately adjacent to the Town Hall building. Pump Station 77 was an existing 6'-diameter station relocated due to its location in a heavily traveled intersection, and Pump Station 78 was upgraded from a duplex to a triplex. Pumps at each station ranged from 5-HP to 15-HP.

Pump Stations 15 and 25 Rehabilitation, Clearwater, FL – Field Representative for the rehabilitation of Pump Stations 15 and 25. The project included demolition of an existing building, refurbishment of the existing wet wells, and extension of an 8-inch force main.

Lift Station 15 Force Main Replacement, Dunedin, FL – Field Representative for the construction services for the installation of ±7,500 LF of 14-inch HDPE force main via horizontal directional drill along US Alternate-19, across Curlew Creek, Palm Boulevard and Harvard Avenue, to a discharge manhole at Channel A in Hammock Park. Services included FDOT coordination & witnessing testing.

Solid Waste Facility Master Pump Station Relocation, Pinellas County, FL – Field Representative for this project which included complete removal and replacement of Pump Station 201 with new 45 HP duplex station, generator, metering and telemetry systems located in a screen wall compound designed to match proposed operations improvements. Also observed construction of two existing small submersible stations removed and replaced with one new 45 HP duplex station and 800 LF of 8-inch gravity sewer, which eliminated maintenance and inflow problems.

Ulmerton Road (SR-688) Utilities Relocation, Largo, FL – Construction Observation for the relocation of sanitary and reclaimed water facilities along 9.75 miles of Ulmerton Rd. between I-275 and 119th St to accommodate roadway widening and storm improvements by the Florida Department of Transportation (FDOT). The project included 13,800 LF of 4" – 8" sanitary force main, 3,800 LF of 8" – 12" reclaimed water main, and 8,000 LF of 8" – 12" gravity sewer. The project corridor included difficult installations of deep gravity sewer immediately adjacent to the major commercial artery, as well as several directional drill, jack-and-bore, and microtunnel crossings.



Douglas J. Jennings



Role

Construction Inspection & Observation

Project Assignment

- Eastgate Utility Relocations Ph 2 and 3

Years of Experience

31 years

Education

BS, Contracting & Construction Management, Utica College of Syracuse University

Accredited U.S. Green Building Council LEED Green Associate

Memberships

Florida Gulf Coast Chapter of the U.S. Green Building Council

Project Experience

North Palm River Water Expansion Design-Build Project, Hillsborough County, FL – Resident Inspector representing Hillsborough County for the Design-Build construction of ±8.5 miles of 6-inch and 8-inch water mains and services connections to unserved residential areas in the North Palm River area. Construction services include, but are not limited to: field observation, review of design drawings and submittals for DCP conformance, shop drawing review, RFI responses, progress meeting attendance and minutes preparation, site visits, punchlist development and project closeout.

Bahia Vista Water Main Replacement – Phase 1, Sarasota, FL – Sr. Field Representative for the replacement of existing 8-inch cast iron water mains with new 12-inch ductile iron pipe within the intersection with Osprey Avenue on a heavily treed and narrow street in an existing neighborhood.

Dale Mabry Reclaimed Water System Expansion Program Phase II, Hillsborough County, Florida – Resident Inspector. Mr. Jennings served as Resident Inspector for coordination of the transmission and distribution piping installation in 18 separate subdivisions located in the Carrollwood and Northdale residential areas of north Tampa, Florida.

Hillsborough County Owner's Representative – Provided owner's representative services for Hillsborough County Capital Improvement Program projects. Projects included: Construction of the 18/23 mgd capacity Lake Park Pump Station, Southeast Hillsborough County Landfill; and the Brandon Water Transmission Systems.

Martin Luther King Blvd. Utility Relocation, Hillsborough County, FL – Resident Inspector for approximately 2,250 LF of 12-inch WM to provide system interconnections and accommodate road widening by the FDOT along SR 574 / Dr. Martin Luther King, Jr. Boulevard, from Parsons Avenue to Kingsway Road.

Blind Pass Beach Park Septic System, Sarasota County, FL – Resident Inspector Manager for construction of two new 1800 gpd septic systems, four new drain fields, and abandonment of two existing septic systems at a County park.

Odessa Interim Subregional WWTP, Odessa, FL – President Inspector for construction of a 0.300 MGD extended aeration facility, a 2.0 MG ground storage tank, an 8 MGD high service pump system, approximately 10 miles of 20- and 24-inch reclaimed water transmission piping, a 40 acre sprayfield, a master wastewater pump station and approximately 2.0 miles of force main.

Clement Pride Blvd. South, Balm Roadway Improvements and Mass Grading of Carlton Parcel, Hillsborough County, FL – Construction Observation for this 2-lane Collector Roadway. Services included review of existing site conditions, material delivery for specifications /compliance; review of infrastructure video tapes, infiltration and/or exfiltration testing; checking roadway materials for conformance to specifications/plans. Performed final streets, utilities and drainage inspection with County inspector.



Chris R. Hutton



Role

Geographic Information Systems

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Eastgate Utility Relocations Ph 2 and 3
- Water Main Replacement Ph 7 & 8

Years of Experience

11 Years

Education

AS, Computer Drafting and Design, 2007
ITT Technical Institute

Project Experience

City of Venice Reclaimed Water Main Distribution System Improvements, Venice, FL – GIS Specialist assisting with the development of GIS As-Built data collection specification requirements followed by development of GIS shapefiles of the As-Built data provided by the Contractor. The shapefiles were provided to the City for use in its utilities GIS database and maps. GIS data included As-Built data for 3,000 LF of reclaimed water distribution mains along with valves, fittings and appurtenances.

Cast Iron Water Main Assessment Program - Phase 1, Venice, FL – GIS Specialist assisting with GIS analyses and mapping services to assist the City with determining the locations and remaining amount of unlined cast iron and galvanized water main throughout the City.

Town of Orange Park, Clay County, FL – Gis Specialist assisting with locating and tracking the replacement of all water meters within the Town's jurisdiction. This was accomplished by creating a custom GIS enterprise database that allowed the users to map out areas of interest and print corresponding maps for daily coverage areas. The database was uploaded to the GPS units with preset questions and answers to help expedite the process and also for quality control and assurance of the data being collected. Also provided training, database support, graphic support through ArcGIS, Adobe Illustrator, Adobe Photoshop, and Autocad 2013 to prepare and finalize graphics depicting the entire City's water and wastewater lines (forcemains/gravity lines), pump stations, manholes, wells, and fire hydrants. All exhibits were symbolized by size, material, and use.

City of Miami Consumer Service Line Relocation Project, Miami, FL – King is the lead consultant for the Miami-Dade Water and Sewer Department's Consumer Line Relocation project, which involves relocating ~3,000 private water services and meters from rear lot water mains to new or existing water mains in the right-of-way. Chris is serving as GIS Specialist and created a custom GIS enterprise database designed to integrate multiple ArcGIS software applications that, when combined, act as a single database to track and coordinate "real time" updates on each private service line, from design through construction.

GIS Analyst for the Stormwater Management Division for Pasco County FL – Inventoried and created a GIS database of all stormwater structures within the County and surveyed the hydraulic elevations (with sub centimeter accuracy) of all the pipe inverts, complete structural and functional assessments.

Northwest Florida Water Management District Interconnect NFWFMD Study – Florida Panhandle - Provided all graphic and GIS data assemblage and analysis for a 5 county utility master plan covering 18 utilities in the NFWFMD panhandle region. Assembled available aerial imagery, GIS datasets from multiple city and county governments and environmental agencies to provide base mapping and conceptual planning documents for the project. Prepared illustrative master plan exhibits to convey the proposed interconnected utility system and capital improvement project.



James David Greer, PSM



Role

Survey Manager

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection
- Eastgate Utility Relocations Ph 2 and 3
- Water Main Replacement Ph 7 & 8

Years of Experience

45 Years

Professional Credentials

Professional Surveyor and Mapper Florida No. LS 5189

Memberships

Florida Society of Professional Surveyors and Mappers

Project Experience

Intracoastal Waterway Force Main Replacement Project, Venice, FL - Survey Project Manager responsible for locating mean high water line and obtaining hydrographic data along the Intracoastal Waterway to serve the design of a submerged pipeline.

City of Venice Water Main Replacement Program, Phases 1, 3, 5 and 6, Venice, FL - Survey Manager overseeing surveying services for the City of Venice Water Main Replacement Program which involved four phases of pipeline replacements, new connections, relocations and abandonment of existing mains. The project totaled $\pm 26,775$ LF of new 6-inch and 8-inch water mains, abandonment of existing 2-inch through 4-inch mains, and relocation of ± 440 private services. Topographic survey services extended from the back of the sidewalk or the right-of-way line to the centerline of the roadway pavement on the side of the road. Survey recorded above ground features including utilities, manhole rims, inverts and pipe sizes and trees. A jurisdictional boundary of the Hatchett Creek, was also conducted. A specific purpose jurisdictional survey of the established MHW line and/or located jurisdictional line points was prepared in accordance with Chapter 5J-17, FAC.

Peace River Regional Integrated Loop System, Phase 2, Peace River Manasota Regional Water Supply Authority, DeSoto County – Survey Manager for topographic survey for ± 6 miles of 24-inch potable water transmission main including a 3,500 LF fusible PVC directional drill under Hatchett Creek.

Pump Stations 33 and 42 Rehabilitations, Clearwater, FL – Survey Manager for boundary, wetland and topographic surveys for the rehabilitation and upgrade of two submersible wastewater pump stations.

Pebble Creek Repump Station and Forcemain, Hillsborough County, FL – Survey Manager for surveying services performed as part of King scope of services for this pipeline project involving $\pm 3,700$ LF of 12-inch force main along Regents Park Drive, tying into an existing County force main on Bruce B. Downs Boulevard. Surveying services included:

- Topographic survey of the Wastewater Treatment Plant site and along the right-of-way of Regents Park Drive
- Locate and identify hardscape elements and above ground utilities
- Locate and identify by type, size and species, vegetative elements within the survey area having a D.B.H. greater than 4 inches, edges of mass plantings, and delineated planter beds if present
- Obtain ground elevations at subsurface utility engineering (SUE) location points.
- Show EPC wetland delineation within the plant and adjacent parcels

Starkey Sewer / Lift Station No. 1 / 20, Largo, FL - King was retained by the City of Largo to relocate existing and design of new sanitary sewer and force main improvements south of Ulmerton Rd. along Starkey Rd., including re-design of Lift Station No. 1 in Largo. Survey Project Manager for the following surveying services which were part of King's overall scope for this project.

Starkey Sewer / Lift Station No. 1 / 20, services included:

- Establish horizontal and vertical control along the force main routes
- Right of way mapping and property lines, including monumented and referenced baselines and benchmarks
- Topographic mapping of the Lift Station No. 1 site and gathered supplementary data for Lift Station 20 which also included Lake Avenue topography from right-of-way to right-of-way.

Blind Pass Beach Park Septic System, Sarasota County, FL –

Survey Manager for this Sarasota County Parks and Recreation Department project for a conditions assessment and engineering design for two new 1800 gpd septic systems, four new drain fields, abandonment of two existing septic systems and a pump station. Topographic survey in the area of the pump station was performed.

Idlewild/The Mall Sanitary Sewer System, Clearwater, FL -

Survey Manager for topographic, property and wetland surveys for the design, permitting and construction of a 20,000 LF gravity sewer main and 90 manhole system installed in an existing neighborhood to allow for the abandonment of the 450+ individual septic systems. Survey services also included locating house laterals and septic tanks on private property.

Kapok Terrace Sanitary Sewer, City of Clearwater, FL -

Survey Project Manager responsible for approximately 7,500 LF of 8-inch gravity sewer mains, 35 manholes and abandonment of 130+ individual septic systems.

Tarpon Springs Sanitary Sewer Expansion, Tarpon Springs, FL –

Survey Manager for topographic survey for the design and construction of approximately 3,000 LF of 8-inch gravity sewer mains, 12 manholes, and the reconstruction of the roadway from edge-of-pavement to edge-of-pavement within the neighborhood.

Glenwood Estates Sanitary Sewer System Improvements, Clearwater, FL-

Survey Manager for surveying services design, permitting and construction services for a new 3,600 LF 10" through 15" gravity sewer trunk line through the existing neighborhood to relieve the existing system.

Wet Weather Force Main and Monitoring System, Largo, FL –

Survey Manager for boundary, right-of-way and topographic surveys for 6 upgraded wastewater pump stations, ± 7 miles of replacement 8-inch to 16-inch wastewater force mains, 5 miles of new 20-inch to 30-inch force main and remote monitoring and control equipment.

Clearwater Memorial Causeway Subaqueous Pipelines Project, Clearwater, FL -

Survey Manager for surveying services as part of King's scope of services for a ± 2500 LF replacement force main across Clearwater Harbor from Bayway Blvd. to SR 60 and $\pm 2,700$ LF of new 20-inch pipeline across the Intracoastal Waterway from the Memorial Causeway to Drew Street for use as either a force main, water main, or reclaimed water main.

Westchase HDPE Reclaimed Water Transmission Main Replacement Project, Hillsborough County, FL -

Survey Manager for surveying services performed as part of King's design services for this 9,000 LF pipeline replacement project which included: Establishment of permanent control points along the project route on the local coordinate system; Topographic mapping along the project route to supplement the LiDAR data. The survey included the following above ground features including trees 5 ft and larger, and wetland boundaries; Surveying included horizontally locate geotechnical borings. Horizontally locate & obtain ground elevations at subsurface utility engineering (SUE) location point.

Manatee County Pelletizer Plant, Manatee County, FL –

King's Sanitary Engineers provided design, permitting and construction assistance for this wastewater facility. In support of King's Scope of Services for the project, Survey Project Manager for the base data collection, construction stake-out and as-built surveys. Provided prior construction plans, as-built drawings and boundary information to the County. Recovered and verified the provided project control, and using Total Station Theodolites and Closed Level Loops produced additional project control in proximity to the new facility. Provided additional construction layout throughout the course of construction. Provided record surveys of the completed improvements.

Lake Park WTP Topographic Survey, Hillsborough County –

Survey Manager - As part of the Lake Park WTP Yard Piping Modifications project, directed a topographic survey that included trees and above ground visible features and utilities.



Greg Baksis, PSM



Role

Surveying/Mapping

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection
- Eastgate Utility Relocations Ph 2 and 3
- Water Main Replacement Ph 7 & 8

Years of Experience

15 Years

Education

BS, Geomatics, 2010
University of Florida

Professional Credentials

Professional Engineer
Surveyor & Mapper FL
No. 6956

Memberships

Florida Society of
Professional Surveyors and
Mappers

Project Experience

City of Venice Water Main Replacement Program, Phases 1, 3, 5 and 6, Venice, FL – Project Surveyor for surveying services for the City of Venice Water Main Replacement Program which involved three phases of pipeline replacements, new connections, relocations and abandonment of existing mains. The project totaled 27,000 LF of water mains. Topographic survey services extending, in general, from the back of the sidewalk or the right-of-way line to the centerline of the roadway pavement on the side of the road of the proposed new water mains on the following streets: Ponce DeLeon Avenue; Armada Road South; Maggiore Road; and Ravenna Street. Survey to record above ground features including utilities, manhole rims, inverts and pipe sizes and trees. Surveying included a topographic survey of a 25' wide corridor from the end of the existing main on Warfield Avenue North and the jurisdictional boundary of the Hatchett Creek, was also conducted. A specific purpose jurisdictional survey of the established MHW line and/or located jurisdictional line points was prepared in accordance with Chapter 5J-17, FAC.

Topographic Survey Services, Safety Harbor, FL – Assigned under King's general continuing services contract with Safety Harbor to provide the following services:

- **Joyce and Irwin Streets Sanitary Sewer Replacement** – Project Surveyor for control and topographic surveys for the Joyce/Irwin Green Springs Subdivision Sewer Replacements. Surveying services included establishment vertical and horizontal control and provided topographic surveys to include all above ground occupation including stormwater rim, invert and pipe material information and trees 4 inches in diameter and greater
- **13th Ave. to 9th Ave. Water Main Replacement Project, Safety Harbor, FL** – Project Surveyor for topographic survey for the replacement of 2,000 LF of 12-inch water main. Surveyed all streets along the project route which included a CSX rail crossing
- **Green Springs Water Main Replacement** – Similar services as projects above including Topographic Surveying of right-of-way
- **North Bayshore Drive Sanitary Sewer** – Similar services as projects above including Topographic Surveying of right-of-way

Lake Tarpon Sanitary Sewer System Expansion, Phase 3, Tarpon Springs, FL – Project Surveyor for topographic survey of ROW in the project area for 3,000 LF of 8-inch gravity sewer main, 11 manholes and abandonment of 40+ individual septic systems.

Intracoastal Waterway Force Main Replacement Project, Venice, FL – Project Surveyor for topographic survey services for 1,300 LF of 16-inch HDPE installed below the Intracoastal Waterway via horizontal directional drill (HDD).

Sanitary Sewer Pump Stations F13-0059, 0060, 0061 Hillsborough County, FL – Completed boundary, topographic, tree and utilities surveys for a sanitary sewer lift stations.

Lehigh Acres Wastewater Treatment Plant, Lee County, FL – Project Surveyor for topographic survey services for this project which included sizing and selecting equipment for a new influent meter assembly and headworks structure with screening, grit removal and provision for future odor control along with other miscellaneous piping and process modifications within the plant.

Hillsborough County's Westchase HDPE RWTM Replacement Project, Hillsborough County, FL – Project Surveyor for surveying services performed as part of King's design services for this 9,000 LF pipeline replacement project which included:

- Establishment of permanent control points along the project route on the local coordinate system
- Performed topographic mapping along the project route to supplement the LiDAR data. The survey included above ground features including trees 5ft and larger, and wetland boundaries
- Surveying included horizontally locate geotechnical borings. Horizontally located and obtained ground elevations at subsurface utility engineering (SUE) location points

Westwinds/Grassy Pointe/ALT 19 RCW Distribution System, City of Tarpon Springs, FL – Project Surveyor for topographic services, including subsurface utility location for ±14,000 LF of reclaimed water mains and services in two existing neighborhoods and 1,900 LF of 8-inch transmission main along US Alternate-19.

Kapok Terrace Sanitary Sewer System Expansion and Stormwater Improvements, Clearwater, FL – Project Surveyor for topographic survey of ROW and residences in the project area including septic locations for 7,000 LF of 8-inch gravity sewer main, 28 manholes and abandonment of 130+ individual septic systems.

CR 193 and Grove Circle Sanitary Sewer, Clearwater, FL - Project Surveyor for topographic survey for the design of sanitary sewer in the CR193, Grove Circle and Belcher Areas that included 6,000 lf of 8" gravity sewer main manholes and abandonment of 75+ individual septic systems.

Peace River Regional Integrated Loop System, Phase 1 & 3B, Peace River Manasota Regional Water Supply Authority, Sarasota County – Project Surveyor for topographic survey for ±4 miles of 48-inch potable water transmission main. Services also included sketch and legal descriptions for easements including utility and construction.

Manatee County Sidewalk Projects, Manatee County, FL – Project Surveyor for topographic and ROW surveys for three separate sidewalk projects funded through Community Development Block Grants (CDBG). 57th Avenue Sidewalks from 26th St to US 41 in Manatee County, north side of 21st Street East in Palmetto, FL, from US Hwy 41 to 12th Avenue East and west side of 12th Street East from 61st Avenue East to 63rd Avenue East.

Collier Parkway, Pasco County, FL – Performed survey office work, mapping topographic surveys for roadway corridor, calculated and mapped existing and proposed right-of-way lines. Prepared sketch and legal descriptions for right-of-way takings, easements, etc. Coordinated field crews for field survey work.

MacDill Air Force Base CENTCOM, Tampa, FL – Project Surveyor responsible for construction layout of building, storm and sanitary sewers, water and parking lot.

Basin 27, Pinellas County, FL – Project Surveyor for topographic survey for the limits of survey in accordance with applicable requirements of Chapter 5J-17 of the FAC. Obtained elevations at sufficient intervals and locations to accurately create a DTM with one-foot contours. Survey services included aboveground visible improvements and accessible infrastructure improvements. From east side of Indian Rocks Road box culvert – upstream (Northerly) to a point being two hundred feet northerly of 8 Avenue SW – entire creek width from ten feet beyond the easement or existing Top of Bank, whichever is further.

USF St. Pete, FL – Project Surveyor for topographic surveying for design of downtown student housing, including subsurface utility location.



Peter J. Bottone, PWS, CERP



Role

Ecological Services

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Water System Improvements Phase 1 Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection
- Eastgate Utility Relocations Ph 2 and 3
- Water Main Replacement Ph 7 & 8

Years of Experience

36 Years

Education

Bachelor of Arts, Biology
1982
University of South Florida

Professional Credentials

Society of Wetland Scientists Professional Wetland Scientist (PWS)
No. 2919

Certified Ecological Restoration Practitioner (CERP) No. 0199

Authorized Gopher Tortoise Agent GTA-13-00006A

Memberships

AWRA Member #45844
Sierra Club #43950517
Society for Ecological Restoration (SER)
MBR65723

Project Experience

Intracoastal Waterway Force Main Replacement Project Venice, FL – Project Scientist responsible for environmental assessment/permitting of a sewer force main replacement using horizontal directional drill (HDD) construction to cross the Gulf Intracoastal Waterway (GIW) at the Venice Ave. Bridge. Project activities consisted of wetland JD work, T/E species assessments, environmental design and federal/state permitting, including USACE easement approval for activities within the federally maintained GIW channel right-of-way and Manatee Protection Zone along with coordination with City and County regarding the adjacent Legacy Trail and Venetian Waterway Park facilities.

Water Main Replacement Phase 1, Venice, FL – Project Scientist responsible for environmental assessment/permitting of a water main replacement using horizontal directional drill (HDD) construction to cross Hatchett Creek in proximity to the Gulf Intracoastal Waterway for the City of Venice. Project activities consisted of wetland JD work, T/E species assessments, environmental design and federal/state permitting.

Dunedin Causeway Phases 2&3 Utilities Replacement Projects, Pinellas Co, FL – Project Scientist responsible for environmental assessment/permitting of a 3.1 mile long water/sewer pipe replacement project using directional drill/open cut construction within sensitive coastal habitats of St. Joseph's Sound. Project activities consisted of wetland JD work, T/E species investigations, environmental design and federal/state permitting, including FDEP coordination of a Sovereign State Lands (SSL) and USACE approval for activities within the federally maintained GIWW in St. Joseph's Sound, a Florida OFW located within the Pinellas County Aquatic Preserve.

Dunedin Utilities Replacement -Phase 1, Alt Us 19 @ Curlew Creek-Pinellas Co, FL – Project Scientist responsible for environmental assessment/permitting of a 1.8 mile long water/sewer pipe replacement project using HDD directional drill work across Curlew Creek. Project activities consisted of wetland JD work, T/E species investigations, environmental design and federal/state permitting, including FDEP coordination of a Sovereign State Lands (SSL) approval & acquisition of a SSL Easement across Curlew Creek and CEI associated with the HDD subaqueous crossing component

Central Pasco Water Systems Improvements, WTM – County Line Road to SR 54, Hillsborough and Pasco County, FL – Established jurisdictional wetland limits, conducted threatened/endangered species surveys. Prepared and coordinated Florida Department of Environmental Protection (FDEP individual ERP), ACOE (Nationwide 12) and EPC permit applications for this proposed ±5 miles pipeline project along Hwy. 581, and assisted with CEI review of HDD work and monitoring under forested wetland systems to minimize impacts and wetland mitigation requirements.

Pinellas County Redundant Force Main Project, from PS-016 to South Cross Bayou Water Reclamation Facility, Pinellas County, FL – Project Scientist responsible for environmental assessments associated with alternatives analysis, Preliminary Engineering Report development and federal and state permitting of 3.5 miles of 36" new force main. The project required the use trenching through drainage canals and installation via horizontal directional drill (HDD) techniques in crossing large waterways such as Long and Cross Bayou Canal systems.

Central Pasco Water Systems Improvements, WTM – County Line Road to SR 54, Hillsborough and Pasco County, FL – Established jurisdictional wetland limits, conducted threatened/endangered species surveys. Prepared and coordinated Florida Department of Environmental Protection (FDEP individual ERP), ACOE (Nationwide 12) and EPC permit applications for this proposed ±5 miles pipeline project along Hwy. 581, and assisted with CEI review of HDD work and monitoring under forested wetland systems to minimize impacts and wetland mitigation requirements.

Clearwater Memorial Causeway Sub-Aqueous Pipelines Project, Pinellas Co, FL – Project Scientist responsible for environmental assessment/permitting of a 1.1 mile long potable water/sewer pipe replacement project from Clearwater Beach to the Coachman Park requiring 5000 ft of horizontal directional drill (HDD) within sensitive coastal habitats of Clearwater Harbor. Project activities consisted of wetland JD work, T/E species investigations, SAV/seagrass mapping and assessment, and federal/state permitting, including FDEP coordination of a Sovereign State Lands (SSL) easements and USACE approval (COU) for activities within the federally maintained GIWW adjacent to the Clearwater Memorial Bridge, a Florida OFW located within the Pinellas County Aquatic Preserve.

Idlewild/Woodlawn Floodplain System, Clearwater, Pinellas County, FL – Environmental Project Manager responsible for wetland JDs, environmental assessment, environmental design, planting plans and permitting for proposed stormwater system retrofit and floodplain compensation site requiring habitat and mitigation design in order to obtain State and Federal permit approvals. Innovative project design was employed a low water diversion structure to create an offline floodplain/wetland system.

Largo Wet Weather Monitoring and Pumping System, Pinellas County, FL – Environmental Project Manager responsible for environmental assessment, alternatives analysis, federal and state permitting of 12 miles of 12" to 30" proposed force main, and the construction/modification of 7 connected Lift Stations. The project entailed the use trenching through numerous drainage canals and installation via HDD techniques in crossing large waterways such as Long and Cross Bayou Canal systems, and required remedial permitting and design activities during construction work to resolve contractor violations and accommodate alignment changes for City.

Temple Terrace Master Pump Station "B" Improvements, Tampa FL – Environmental Project Manager responsible for overseeing wetland JDs, T/E assessments and FDEP, COE and TPA (Minor Work and SSL) permitting for the proposed facility improvements. These activities included assisting in the CEI oversight of 800 foot subaqueous crossing of the Hillsborough River with a HDPE FM via directional drilling for frac-outs/turbidity. The project required follow-up remedial work to restore riverine wetlands for the City resulting from erosion pursuant to a FDEP consent order. The restoration was deemed successful by FDEP within 3 months.

Tampa Bay Water Alafia River Pump Station, Hillsborough County, FL – Project Ecologist responsible for the design and preparation of Hillsborough County-approved landscape plan and bid specifications for a proposed Tampa Bay Water pump station facility sited on the Alafia River near Bell Shoals Road. Due to initial public opposition, the project design required an "ecoscape" approach that targeted the restoration of forested riparian habitats along the river impacted by the intake structures and a xeriscape design near the pump house facility using endemic sand pine/ scrub plant species to maintain the natural character of the site and to receive public approval.

USACE Independent External Peer Review (IEPR) for the SFWMD's Picayune Strand Restoration Project – As subcontractor performed review for this CERP project which targets the restoration of 55, 000 acres of South Florida habitats via the construction of 3 Pump Stations at 3 spreader canals with berms, the plugging of 48 miles of ditches and removal of 260 miles of road.

Tampa Bay Water Tampa By-Pass Canal Pump Station, Hillsborough County, FL – Project Ecologist responsible for the design and preparation of Hillsborough County-approved landscape plan and bid specifications for a proposed Tampa Bay Water pump station facility sited on the Tampa By-Pass Canal near Martin Luther King, Jr. Blvd. The project design required preservation of large oak trees on-site and a xeriscape design that provided County-required buffers from adjacent residential areas.



Role

Rezoning

Project Assignment

- Water System Improvements
Phase 1, Potable Water
Booster Pump Station, Storage
Tank and Emergency Regional
Interconnection

Years of Experience

13 Years

Education

MBA, Thunderbird School of
Global Management, 1990

BA, Economics, 1989

State University of New York
at Binghamton

BA, German Language &
Literature, State University of
New York at Binghamton, 1989

Professional Credentials

American Institute of Certified
Planners

Memberships

American Planning Association
Florida Chapter of the American
Planning Association

Project Experience

City of Clearwater Solid Waste Transfer Facility, Clearwater, FL – Ms. Spidell provided planning expertise and actively facilitated the regulatory process for a comprehensive plan amendment, a zoning amendment, and a Comprehensive Infill Redevelopment plan for the City of Clearwater. The new design expanded beyond the existing footprint of the structure triggering amendments to the Zoning and Future Land Use maps. Upon the City's initial creation of zoning and land use maps, the existing and actual footprint of the building was carved out and designated as Transportation/Utility in the Future Land Use Maps and Institutional District in the Zoning Atlas. However, the City Code does not allow Solid Waste Transfer Facilities in their Institutional Zoning District, thus creating an existing legally permitted nonconforming use. The following approvals were needed in order to replace and thus expand the footprint of the facility despite its status as nonconforming: Flexible Development Plan (Level II) approval by the Community Development Board (This allowed for the solid waste facility to exist within the Institutional Zoning designation); Amendment of the Zoning Atlas Designation (a/k/a rezoning) from Open Space/Recreation (OS/R) to Institutional District (I); and an Amendment of the Land Use Maps from Recreation/Open Space (R/OS) to Transportation Utility (T/U). Together with City staff, we developed and implemented a plan of action to bring the facility as expanded in conformance with the Comprehensive Plan and the Community Code by researching, analyzing, and demonstrating consistency with all applicable City regulations and justifying the replacement/expansion through the applicable flexibility provisions that the Code allows. As a result, land use issues did not prevent or delay the project.

KBAR Ranch, Tampa, FL – Ms. Spidell is coordinating a PD(A) rezoning for portions of KBAR Ranch in the City of Tampa.

Talavera MPUD, Pasco County, FL – Ms. Spidell coordinated two (2) zoning modifications for this development.

Sienna Village MPUD, Pasco County, FL – Ms. Spidell coordinated a rezoning from Professional Office to Master Planned Unit Development.

Pasco County Board of Commissioners, Pasco County, FL – Ms. Spidell worked for the Pasco County Board of Commissioners for 11 years where she functioned as a Planner II, Senior Planner/DRI Coordinator and Capital Budget Coordinator. Representative projects are listed below:

- **Comprehensive Plan Amendments, Rezonings, Zoning Amendments, Development Orders and Development Agreements** – Coordinated, negotiated, and processed development applications for new large scale projects as well as amendments for existing projects. Promoted the single/lead planner/team concept to facilitate a single point of contact for applicants throughout the development process.

- **Large Scale Developments including Developments of Regional Impact (DRI)** – Project Leader and Planner.
 - Lead Planner for large scale projects including Wiregrass Ranch, Starkey Ranch, Connerton, Bexley Ranch, SunWest Harbortowne, Cypress Creek Town Center, Long Lake Ranch, Ashley Glen, and Trinity;
 - Crafted development conditions, worked extensively with private developers, negotiated and facilitated complex issues;
 - Agenda and presentation preparation for hearings;
 - Presentation & public speaking at public hearings;
 - Provided internal and external customer service for all issues pertaining to planning related issues for DRIs/large mixed use developments in Pasco County.
 - Represented County for DRI process within the Tampa Bay Region. This included coordination with agencies such as the Florida Department of Economic Opportunity, Florida Department of Transportation, Florida Department of Environmental Protection, Tampa Bay Regional Planning Council and Tampa Bay Water.
 - **Transportation Planning Coordination** – Worked closely with Transportation Planners to ensure long range planning of transportation network was implemented throughout the development review process. This also involved facilitating timing and phasing issues of road development to balance needs between the public and private sector.
 - **Mobility Fee System Implementation** – Participated in the County's Mobility Fee System implementation which replaced Transportation Impact Fees and eliminated transportation concurrency. As a member of the planning team, this involved coordination of growth assumptions and development trends throughout the County. As the Capital Budget Coordinator, this involved facilitating the 2014 mobility fee update (current fee schedule) from a budgetary perspective. This also involved annual updates to the Board of County Commissioners during the budget process regarding revenue collections and deviations if any from the assumptions in the mobility fee study.
 - **Urban Design Standards** – Developed implementable urban design standards to reduce vehicle miles traveled (Mixed Use Trip Reduction Measures). Implemented standard calculations to estimate reductions in Vehicle Miles Traveled (VMT) associated with mixed use developments.
 - **Standardization of Development Orders and Development Agreements** – Created and updated standard language with County Attorney's Office regularly to promote predictability and transparency for the development community.
 - **Socioeconomic Data Forecast** – Facilitated Socioeconomic Data Forecast for Pasco MPO and the 2040 Long Range Transportation Plan.
 - **Website Planning and Development** – Facilitated web design and migration to improve communication, customer service, and product delivery for entire Development Services Division. Member of Web Portal Governance Board. Also designed, migrated, and developed website for Planning and Development. Managed Design and Content for Current Planning website for large scale developments and for the Capital Improvement Plan for the Office of Management and Budget.
 - **Capital Improvement Plan (CIP)** – Coordinated the CIP for all branches of the County government. Total amount budgeted for Fiscal Year 2017 equaled \$268 million and \$1.2 billion for FYs 2017-2021. Services provided include:
 - Revenue projections including development permit projections for impact/mobility fee projections.
 - Facilitated project priority and budgeting for all branches e.g. Engineering Services/Project Management.
 - Coordinated and facilitated mobility fee credit tracking for CIP impacts.
 - Conducted Capital Workshops with the Board of County Commissioners to go over revenue scenarios and capital revenue allocations including Tax Increment Financing.
- Wiregrass Ranch DRI/MPUD, Pasco County, FL** – Ms. Spidell facilitated the planning process for an MPUD amendment with corresponding amendment to the Master Roadway Plan in Pasco County.



Role

Geotechnical Engineering

Project Assignment

- Bay Indies Utility Relocations
Ph 1 & 2
- Water System Improvements
Phase 1, Potable Water
Booster Pump Station,
Storage Tank and Emergency
Regional Interconnection
- Eastgate Utility Relocations
Ph 2 and 3
- Water Main Replacement
Ph 7 & 8

Years of Experience

46 Years

Education

MS, Civil-Geotechnical-
Engineering, 1971 University
of Florida

BS, Civil Engineering, 1969
University of Florida

Professional Credentials

Professional Engineer Florida
No. 16989

Relevant Experience

Water Main Replacement Program Phases 3, 5 and 6, Venice, Florida - As a subconsultant to King Engineering, Principal-in-Charge of geotechnical studies and Geotechnical Engineer of Record for $\pm 21,775$ LF of 6-inch water mains, abandonment of existing 2" and 3" mains and the relocation of private services. The geotechnical scope included the performance of test borings along the pipeline alignments to investigate subsurface soil conditions needed for the design and construction of the water mains and to assess the feasibility of horizontal directional drilling.

Regional Integrated Loop System, Phase 1, Peace River Manasota Regional Water Supply Authority, Punta Gorda, FL – As subconsultant to King, Geotechnical Engineering Project Manager for land and water geotechnical studies for ± 6 miles of 24- inch water main, including a $\pm 3,500$ HDD crossing of Shell Creek.

Regional Integrated Loop System, Phase 3B, Peace River Manasota Regional Water Supply Authority – As a subconsultant to King Engineering, Principal-in-Charge of geotechnical studies and recommendations for 36,000 LF of 36" and 48" water transmission main.

Water Main and Sewer Replacements, Safety Harbor, FL - As a subconsultant to King Engineering, Principal-in-Charge for all geotechnical services for the following water main replacement and sewer projects:

- South Green Springs Water Main Replacement Project
- Green Springs Water Main Replacement (WA#4), Safety Harbor
- 13th Avenue North to 9th Avenue North Water Main Replacement
- Espiritu Santo Springs Subdivision & Washington - Brennan Subdivision
- North Bayshore Drive Sanitary Sewer & Forcemain Replacement

Septic to Sewer Program, Clearwater, FL - As a subconsultant to King Engineering, Principal-in-Charge for all geotechnical services for the following sanitary sewer projects:

- Idlewild/The Mall Sanitary Sewer System
- CR 193, Grove Circle, and Belcher Area Sanitary Sewer System
- Kapok Terrace Sanitary Sewer System

Redington Beach Pump Station Improvements, Redington Beach, FL – As a subconsultant to King Engineering, a subsurface investigation was conducted in the area planned for the proposed pump station. The pump station will include a wet well at a depth of about 20 feet below existing grade together with attendant pumping and mechanical facilities. Reported on pump station subgrade conditions, placement and compaction of backfill soils and soil and groundwater conditions.

28th Street N., Pump Station and Lift Station No. 82, St. Petersburg, FL – A subsurface investigation was conducted at the proposed subject lift station and within the proposed electrical and emergency generator pads. Discussed structural loads and soil bearing pressures and construction methodologies.

City of Tarpon Springs, Two 5 MG Ground Storage Tanks and Alternative Water Supply System Facilities, Tarpon Springs, FL - Retained to conduct comprehensive geotechnical studies to provide value engineering and foundation recommendations for the proposed water storage tank and chlorine contact chamber for the subject project. Our studies resulted in major savings in construction costs.

City of Oldsmar Water Treatment Plant and Ground Storage Tanks, Oldsmar, FL – Geotechnical Investigation along the planned pipeline alignments. Due to the magnitude of settlement of larger, more heavily loaded structures, deeper explorations were required to accurately evaluate total and differential settlement potential beneath tank structures and to develop potential pile lengths. Collected Shelby tube samples and laboratory consolidation testing. Provided recommendations for the design and construction of the planned facilities.

Intracoastal Waterway Force Main Replacement Project, Venice, FL - As a subconsultant to King Engineering, Principal-in-Charge for geotechnical studies for 1,300 LF of 16-inch HDPE below the Intracoastal Waterway via horizontal directional drill (HDD). The report included a description for the drill team to be aware of subsurface conditions to be encountered for their selection of drill bits. Included was the estimated seasonal high groundwater estimate, and recommendations for care and safety in excavation, possible dewatering, mat foundations and maintaining excavation wall stability.

Dunedin Causeway Water Main and Force Main Replacement Projects, Dunedin, FL - As a subconsultant to King Engineering, Principal-in-Charge of Geotechnical Engineering for 47 SPT borings along the alignment, including borings using our small barge. Also performed land and marine geotechnical studies and provided design and construction recommendations for direct pipe embedment, and land/marine directional drilling.

Central Pasco Water and Wastewater Systems Improvements, Pasco County, FL - As a subconsultant to King Engineering - Principal-in-Charge for water and wastewater transmission and distribution mains in central Pasco County. Project included 145,900 lf of 16-, 24- and 36-inch potable water mains and force mains, and a potable water booster pump station.

Longboat Key Potable Water Interconnect, Longboat Key, FL – Land and Marine geotechnical investigation for subaqueous water main consisting of 16 inch HDPE Piping tying into 6 inch service line extending north and south of the channel crossing. Geotechnical services included rock coring, laboratory testing, unconfined compression testing and reporting that included description of subsurface conditions and geotechnical evaluation of conditions, suitability of materials for backfill and construction considerations.

Lift Station 87 Childs Park; Master & 16" Force Main – Part B – St. Petersburg, FL – As Principal Geotechnical Engineer of Record for the City of St. Petersburg, provided subsurface investigation and geotechnical recommendations for the design and construction of a 16-inch force main along 1st Street South. The total length of this section of the force main is approximately 7,200 feet, with a portion that will be installed utilizing horizontal directional drilling (HDD) due to existing utility and culvert conflicts.

Shady Hills Subregional WWTP Expansion, Pasco County, Florida - As a subconsultant to King Engineering, Principal-in-Charge of geotechnical studies and design recommendations for 5 MG reclaimed water (RCW) storage tank and 24 MGD high service pump station as part of the expansion from 2 to 14 MGD.

US 301 Force Main, SR-674 to Valencia Lakes, Hillsborough County, FL – As a subconsultant to King Engineering, Principal-in-Charge of geotechnical studies for the relocation of 8,000 lf of 30-inch force main along US 301. Geotechnical studies included evaluation of subsurface conditions and providing geotechnical recommendations for direct embedment, Jack and Bore roadway crossing of SR674.

Wet Weather Force Main, Pump Station and Monitoring System, Largo, FL – Geotechnical investigation for 6 pump station sites, lift stations and 7 miles of pipeline for the force main from the City of Largo Wastewater Reclamation Facility (150th Avenue westward) towards three lift stations. The pipe crossed a Canal, US 19, 5 streets, CSX tracks, and a lake. Geotechnical studies included a program of shallow and deep test borings to examine subsurface soil and groundwater conditions to develop recommendations for design and construction of pump station, direct pipe embedment, Jack and Bore roadway crossings and horizontal directional drilling for selected crossings.



Paul Carastro, PE

CARASTRO & ASSOCIATES, INC.

Role

Electrical Engineering

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection

Years of Experience

33 Years

Education

BS, Electrical Engineering
1985
BS, Industrial Engineering
Georgia Institute of Technology

Professional Credentials

Professional Engineer Florida
No. 45830;
ICC Commercial Electrical
Inspector;
US Department of Energy
Data Center Energy
Practitioner;
Uptime Institute Accredited
Tier Designer

Memberships

Institute of Electrical and
Electronics Engineers
National Society of
Professional Engineers

Project Experience

CR 70 & Weathersfield Potable Water Storage & Booster Pump Station Upgrades, Dunedin, FL - Subconsultant to King Engineering. Electrical Engineer of Record for electrical systems design and construction services for two 15.0 mgd pump stations, variable frequency drives, instrumentation, controls and a standby diesel generator.

Belcher Road Reclaimed Water Storage & Booster Pump Station, Dunedin, FL - Subconsultant to King Engineering. Electrical Engineer of Record for reclaimed water storage tank and high service booster pump station. A 10 mgd booster pump station, pump building, electrical, instrumentation, telemetry and site improvements.

Boyette Water Treatment Plant - Pasco County, FL – Subconsultant to King for a potable water treatment plant, including a 10,230 SF administration building with an elevated control room, three chemical rooms, high service pump room and generator room. Electrical design of main switchboard with VFD's for the four 200 HP high service pumps, duplex lift station, electrical distribution & lighting for the entire facility.

Peace River Regional Integrated Loop System, Phases 1 Interconnect, Peace River Manasota Regional Water Supply Authority – Design of new electrical services and provision of power for new metering stations, controls and instrumentation for new 24-inch diameter, 33,600-foot long transmission main and associated appurtenances and meter assemblies. Coordination with electrical utility for all new electrical services. Electrical Engineer of Record. Subconsultant to King Engineering.

Peace River Regional Integrated Loop System, Phases 2 Interconnect, Peace River Manasota Regional Water Supply Authority – Design of new electrical services and provision of power for three new metering stations, controls and instrumentation for new 42-inch diameter, 7-mile long transmission main and associated appurtenances. Subconsultant to King Engineering.

Peace River Regional Integrated Loop System, Phases 3B Interconnect, Peace River Manasota Regional Water Supply Authority – Design of new electrical services and provision of power for a new metering station, controls and instrumentation for new 36 and 48-inch diameter, 6-mile long transmission main and associated appurtenances. Coordination with electrical utility for all new electrical services. Subconsultant to King Engineering.

Pinellas County Logan Booster Pump Station Pinellas County, FL – Subconsultant to King. Electrical Engineer of Record for new design of 30 MGD potable water booster station, including an electrical room and high service pump room, backup 1500 KW generator adjacent to pump station. Electrical design of main switchboard with VFDs for four-250 HP high service pumps, SCADA upgrades, electrical distribution and lighting for new pump building.

Little Road Pump System Improvements, Pasco County, FL – Subconsultant to King. Electrical systems design and construction services for the VFDs and pumping system at a 22 mgd water treatment plant with a peak capacity of 30 mgd.

Temple Terrace Master Pump Station B, Temple Terrace, FL – Electrical system design for new triplex pump lift station with backup generator and automatic transfer switch. Electrical and control design with RTU Interface. Construction administration and start up observation. Electrical Engineer of Record. Subconsultant to King.

Reverse Osmosis Transfer Pump Upgrade, Dunedin, FL – Subconsultant to King Engineering. Electrical Engineer of Record for 2 transfer pump conversions from across the line starting to VFD drives, control design for VFD's from line monitoring instrumentation, full construction administration and final punch list. Also provided a code specific grounding system for extensive pipe racking and holding tanks.

Southern Hills Plantation Lift Station, Potable Water and Well Pumps, Brooksville, FL - Electrical design of standby generator back up, ump house, VFD's. Well pumps included electrical service to 50 HP and 60 HP pump motors. Full construction administration. Provided startup observation. Electrical Engineer of Record.

Lift Station 10, Dunedin, FL – Project Manager for two-level duplex lift station with backup standby generator. Project was retrofit to existing station. Provided electrical and instrumentation design. Full construction administration. Provided startup observation. Subconsultant to King.

FGUA Lehigh Acres Wastewater Treatment Plant, Lehigh Acres, FL – Subconsultant to King. Electrical Engineer of Record for a new headworks. Included power for all pumps and control cabinets and coordination with local electric utilities for new electrical service and meter on site. A portable generator connection was designed to provide back-up power to the pump station. Control wiring was designed for low voltage devices including transmitters, switches, and MOVs.

Fawn Ridge Water Treatment Facility, Hillsborough County, FL – Modifications to water treatment facility serving Northwest Hillsborough County. Modifications included two interior offices, newer server room, new sinks, electrical distribution for new air conditioning and fire alarm system. Electrical Engineer of Record.

Reclaimed Water Metering and Controls, Pasco County, FL – Electrical Engineer of Record/Subconsultant to King. Reclaimed water distribution was monitored at 20 sites throughout Pasco County per SWFWMD requirements. Design work included powering RTUs, flow meters and motor operated valves. Data cables designed (both fiber optic and copper) to local area network installations. Full construction administration.

City of Clearwater Northeast Plant Sludge Pump Evaluation and Rehabilitation, Clearwater, FL – Provided electrical design for MCC replacements in RAS building, replacement of variable frequency drives for RAS #1 and #2, WAS #1 and #2 replacement of electrical panels and transformer, clarifier motor replacements (8 in total). Electrical Engineer of Record and Principal in Charge. Subconsultant for King Engineering.

City of Clearwater East Plant Sludge Pump Evaluation and Rehabilitation, Clearwater, FL – Provided electrical evaluations for the City's East Plant Return & Waste Sludge Electrical Component including a review of the three motor control centers, circuit breakers, variable frequency drives, electrical distribution panels, and safety disconnect switches design and construction administration services for sludge pump electrical system and return sludge pump electrical upgrade, clarifier motor replacements and VFD replacements. Electrical Engineer of Record. Subconsultant to King Engineering.

Pinellas County South Cross Bayou Water Reclamation Facility, St. Petersburg, FL – Design of power distribution system for new Sludge Thickener Station, Polymer Skids, Mixers and associated pump station. Electrical Engineer of Record. Subconsultant for King Engineering.

William E. Dunn Water Reclamation Facility, Pinellas County, FL – Design of power supply for three new chemical scan systems with communication link to existing SCADA. Design of power supply for sample pumps with variable frequency drives at each sample location (6 in total). Design of power system for new wireless sludge blanket analyzers (6 units). Design of polymer mix system, new PLC control panel and connection to SCADA. Coordination with plant control system staff, control system vendor, DCR programmers and integrators. Electrical Engineer of Record. Subconsultant to King Engineering.



John V. Sobczak, PE



Role

Structural Engineering

Project Assignment

- Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection

Years of Experience

12 Years

Education

MS, Structural Engineering,
2007
University of Central Florida

BS, Mechanical Engineering,
2005, University of Central
Florida

Professional Credentials

Professional Engineer
Florida No. 71407

Project Experience

Logan Booster Pump Station Modifications Project, Pinellas County, FL -As a subconsultant to King, provided the Structural Engineer of Record responsibilities for the design of a single-story masonry building housing new booster pumps, electrical equipment and a bridge crane for the new 30 MGD capacity potable water booster pump station. The structure is approximately 3,200 SF and 18ft tall with a painted stucco finish.

Lehigh Acres WWTP Headworks and Miscellaneous Modifications, Lehigh, FL -Subconsultant to King Engineering, Structural Engineer of Record for the design of a new cast-in-place headworks approximately 70ft x 22ft and an elevated deck height of 27ft. The structure contained one primary channel and one bypass channel along with a Headcell processing unit. Aluminum access stairs were also designed.

City of Clearwater Clarifier Rehabilitation Program, Clearwater, FL - As subconsultant to King Engineering, provided structural design services for the rehabilitation of the city of Clearwater clarifier splitter box, which included the removal of existing effluent gates and supports, repair of concrete walls, and design of new gate assemblies.

City of Sarasota WRF Headworks and Filter Improvements, City of Sarasota, FL -As a subconsultant to King Engineering, Structural Engineer of Record for the design of modifications to the existing filters which have been designed to be converted to utilize the AquaDiamond filter technology. This required various modifications to existing channels and the addition of hydrostatic walls. The project also included the design of an additional screening and bypass channel at the existing Headworks structure. These additional channels have been designed to be connected to the existing structure and are supported on several dozen helical piles.

Lift Station #33 Rehabilitation, City of Clearwater, FL -Structural Engineer for the design of the rehabilitation of a steel pump station. The steel structure was corroded, failing and undersized. The majority of the lift station was removed, and a new cast-in-place structure was designed to accommodate the new size and pump requirements.

Lift Station No. 1 Improvements, City of Orlando, FL -The lift station improvements include a new lift station designed to be installed as a caisson sunk into place since the site is relatively constrained and does not lend itself to traditional sheet and shored construction techniques. The lift station contains two independent wet wells and measures approximately 52ft x 30ft in plan dimension and extends approximately 45ft below grade. The lift station is surrounded by a single-story masonry building measuring approximately 4,500 SF. A masonry screen wall was also designed to encompass the site.

South Cross Bayou WRF Sludge Thickening Improvements Pinellas County, FL - Subconsultant to King Engineering. Structural Engineer for the design of a new masonry building to house sludge thickening equipment. The structure is a large one-story masonry structure with a steel wide flange beam and steel deck roof system. A bridge crane is located within the structure.

SWRF Influent Pump Station, Orange County, FL – Structural Engineer of Record for the design which included a new cast-in-place influent pump station at the South Water Reclamation Facility which measures approximately 90ft x 60ft in plan dimension and nearly 40ft deep. The pump station was designed to accommodate peak flow rates of over 170 MGD. Modifications to the existing influent screening channels were also designed to accommodate new flow patterns and a new splitter box was designed at the exterior of the screening building to direct flow to the new pump station. A single-story electrical building was also designed to house the various electrical equipment.

Lift Station Nos. 28, 54, 60, and 67 Upgrades, City of Orlando, FL – Structural Engineer of Record for the design of several lift stations which varied in diameter from 6ft to 8ft. They were designed and installed via the sinking caisson method due to site constraints. A precast concrete electrical building was also designed to house a generator and other various equipment at several of the sites.

East Port WRF Stage 5 Improvements, Charlotte County, FL – Structural Engineer for the design of a cast-in-place high service pump station measuring approximately 20ft x 44ft in plan dimension and approximately 20ft deep. The elevated top slab was extended 20ft from the pump station to allow for covered storage below.

East Port WRF Stage 1 Improvements, Charlotte County, FL – Structural engineer of record for the design of a new Aerobic Digester approximately 200ft x 120ft in plan dimension. The structure was founded at grade with 20ft tall walls and served to supplement the existing digester capacities until further construction phases could be completed.

Bradenton WWTF Improvements, Bradenton, FL – Structural Engineer of Record for design of a new Headworks Bypass Channel and Oxidation Splitter Box. The Headworks bypass channel will be located adjacent to the existing to create a bypass channel. It will be independent of the existing structure. Additionally, the channel will extend to the front of the structure or upstream to create a new splitter box to allow flow to split to each channel. An Oxidation Splitter Box is also being designed to split flow from the Headworks to the existing Oxidation Ditches with an allowance for an additional Oxidation Ditch to be installed in the future.

Eastern Water Reclamation Facility Phase V Expansion, Orange County, FL - The 14 MGD expansion of the Eastern Water Reclamation Facility included the design of the following structures: Modifications to the Aeration Basins, Clarifiers, Headworks with solids unloading building, various splitter boxes, Chlorine Contact Chamber, Filters, and an Influent Pump Station.

The following are projects in which Mr. Sobczak was either Engineer of Record or Structural Engineer Project Manager:

- EWRF Phase IV-C, Orange County, FL
- Tampa Bay Regional WTP Expansion, City of Tampa, FL
- Southeast Regional WTP, Seminole County, FL
- Clearwater Transfer Station, Clearwater, FL
- Lithonia No. 1 Pump Station, Dekalb County, GA
- Johnson Creek Pump Station, Dekalb County, GA
- Bay Park STP Raw Sewage Pumping System Improvements, Nassau County, NY
- Efrain A. Duran WTP, City of Rio Grande, TX
- Weslaco WTP Expansion, City of Weslaco, TX
- Galveston Main WWTP Reconstruction, Galveston, TX
- Red River WWTP Expansion, City of Bossier City, LA
- Diamondhead WWTP, City of Diamondhead, MS
- Greenwood WWTF, City of Greenwood, MS
- El Metro Phase Transit Services Maintenance, Operations, and Administration Buildings, City of Laredo, TX
- City of Baton Rouge Wastewater Collection Complex, City of Baton Rouge, LA



Mark Brewer



Role

SRF/Grant Funding

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection
- Eastgate Utility Relocations Ph 2 and 3
- Water Main Replacement Ph 7 & 8

Years of Experience

30 Years

Education

Doctor of Business Administration
(Candidate)
MBA, Management
BS, Business Administration, Management

Memberships

DEP Technical Advisory Committee for the SRF Drinking Water Program
-Government Finance Officers Association

Trainer & Speaking

State SRF Conference (Multiple Years)
Davis Bacon (Regional, Statewide, National)
Florida State Contractor Compliance Webinars
Davis-Bacon/EEO for New FDOT DBEs
School of Government Finance – Grant/Loan Administration

Project Experience

Venice Eastside Wastewater Treatment Plant and Reuse System Construction

Funding: US Environmental Protection Agency

ABA administered the City's US EPA grant program for construction of the Venice Eastside Wastewater Treatment Plant and Reuse System project. This project cost roughly \$40,000,000.

Venice Eastside Wastewater Treatment Plant and Reuse System Expansion

Funding: Cleanwater State Revolving Fund

ABA worked with Sarasota County and the City of Venice to assist with the planning, application, and administration of a \$15,000,000 State Revolving Fund project to expand the Venice Eastside Wastewater Treatment Plant and Reuse System.

City of Venice four-year contract for grant writing, grants management, and program management services.

City of Clearwater Reclaimed Water System and Septic Tank Removal

Funding: US Environmental Protection Agency STAG Grant

As a subconsultant to King, ABA provided planning and administration services for \$2,327,500 in STAG funding for the City. These projects have significantly increased the size of the City's reclaimed water distribution as well as started the process of removing over 4,000 septic tanks and their associated harmful environmental impacts.

City of Marco Island Septic Tank Replacement Program

Funding: Clean Water State Revolving Fund Low Interest Loans

Angie Brewer & Associates (ABA) is providing planning, application, agreement, technical services, and compliance services to the City for multiple SRF loans totaling \$60,000,000+. This project includes replacement of 5,000+ septic tanks and construction of approximately 307,000 LF of gravity lines, 85,000 LF of force main, 37 lift stations, and 1,000 manholes.

City of Fort Myers Downtown Utilities and Advanced WWTP Upgrades

Funding: Clean Water State Revolving Fund Loans

ABA provided planning, application, agreement, administration and closeout services for the City of Fort Myers Downtown Utilities Improvement project and upgrades to the Central and South Advanced WWTP. The Downtown Utilities Improvements program was completed over five (5) construction phases at an estimated cost of \$81 million. The upgrades at the Central and South AWWTPs included the installation of dechlorination equipment and reclaimed water capabilities. This program cost approximately \$17.8 million upon completion.

Collier County Drinking and Wastewater Systems Expansions

Funding: Drinking Water and Clean Water State Revolving Fund Loans

ABA provided planning, application, agreement, administration and closeout services for Collier County's Water and Wastewater Systems Expansion projects. This program included the construction or improvement of five (5) treatment facilities, multiple wells including production and ASR, and reclaimed/force main installation. This program exceeded \$180 million. Due to ABA's approach, Mark was asked to accept EPA's Pisces Award for Financial Innovation on the County's behalf.

City of Palm Bay Wastewater and Water Systems Expansion

Funding: Clean Water and Drinking Water State Revolving Fund Low Interest Loans

ABA is providing planning, application, agreement, technical services, and compliance services to the City for multiple SRF loans totaling \$50,000,000+. The City is undergoing significant change and as a result needed to access the lowest cost funding available. ABA is currently developing the Facilities Plan for the Wastewater and Water Improvements as required by the SRF Program.

City of Palm Bay Wastewater and Water Systems Expansion

Funding: Clean Water and Drinking Water State Revolving Fund Low Interest Loans

ABA is providing planning, application, agreement, technical services, and compliance services to the City for multiple SRF loans totaling \$50,000,000+. The City is undergoing significant change and as a result needed to access the lowest cost funding available. ABA is currently developing the Facilities Plan for the Wastewater and Water Improvements as required by the SRF Program.

City of Palmetto Neighborhood and Community Revitalization

Funding: Florida Small Cities CDBG Program

ABA provided planning, application, and administration for \$2,300,000 in neighborhood and commercial revitalization funding for the City. These funds led to improvements in the City's wastewater collection system, drinking water distribution system and roadway network. This vital funding benefited many of the City's most economically challenged citizens and provided a significant increase in the standard of life to them.

City of Naples Advanced Wastewater Treatment Plant Upgrade, 1.5MGD Expansion and 5MG Storage Tank

Funding: Clean Water State Revolving Fund Low Interest Loans

ABA provided planning, application, agreement, technical services, and compliance services to the City for multiple SRF loans totaling \$27,000,000+. The City had an ambitious utility capital improvement program and called on ABA to locate and administer the funding to make it happen while avoiding the high-priced and expensive bond market. ABA was successful in securing over \$27,000,000 in project funding saving the City over \$20,000,000 in potential interest costs.

State of Florida Weatherization Assistance Program - Davis-Bacon Compliance

Funding: US Department of Energy - American Reinvestment and Recovery Act

ABA provided initial/on-going compliance reviews, on-site evaluations/needs assessments, training assistance, SOP design, training and all required reporting for a \$175.9M grant. The scope also included the development of an emergency "strike" team and ensuring Davis Bacon compliance for 27 sub-recipients and over 1,200 contractors.

City of Frostproof Disaster Recovery Program

Funding: Community Development Block Grant – Disaster Recovery

ABA provided planning, application, administration, and closeout services for a CDBG-DR grant awarded to the City of Frostproof. The grant funded the renovation the historic City Hall to house a Polk County Sheriff Substation.



Role

Public Outreach

Project Assignments

- Bay Indies Utility Relocations Ph 1 & 2
- Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection
- Eastgate Utility Relocations Ph 2 and 3
- Water Main Replacement Ph 7 & 8

Years of Experience

22 Years

Education

MS, Public Administration, 1997
BA, Mass Communications: Public Relations, 1995
University of South Florida

Professional Credentials

APR, Public Relations Accreditation

Memberships

Public Relations Society of America – Tampa Bay Chapter

National Incident Management System (NIMS): ICS 100, ICS 200 and ICS 700

Project Experience

Peace River Manasota Regional Water Supply Authority Regional Loop System Phase 3B, Manatee and Sarasota County, FL – As a subconsultant to King, coordinated stakeholder outreach. This included direct communication with affected residents, and the planning and management of a public meeting for interested stakeholders.

Peace River Manasota Regional Water Supply Authority Regional Loop System Phase 1, Manatee and Sarasota County, FL – Public Outreach Specialist as a subconsultant to King Engineering. Services include planning & conducting a public meeting that incorporated exhibits & presentations in order to solicit public input as part of the route selection criteria.

Waters Edge Reclaimed Water Transmission Project, Pasco County, FL – Conducting public outreach and education which includes creating a project website, coordinating two public meetings, and ongoing communications with stakeholders. This project will supply residents and a golf course in the west central area of Pasco County with reclaimed water. It is jointly funded by Pasco County and the Southwest Florida Water Management District (SWFWMD).

Moon Lake Force Main Project, Pasco County, FL – Performed public outreach which involved the development and implementation of a public outreach campaign that included media relations, public meetings, website development, and ongoing communications with affected neighborhoods. The 5.5-mile installation of the 30-inch pipeline was required by a Consent Order between Pasco County and the Florida Department of Environmental Protection (FDEP) to decommission the Deer Park Wastewater Treatment Plant.

Northwest Regional Water Reclamation Facility Expansion Project, Hillsborough County, FL – Conducting all public outreach and education for the \$200 million expansion of the wastewater treatment facility in northwest Hillsborough County. Services for this project include developing a public outreach plan, planning public meetings, coordinating and communicating with neighborhood HOAs, developing all collateral materials, and ongoing communication with all stakeholders.

Tampa Bay Area Regional Transportation Authority (TBARTA) Projects, Various Counties, FL - Community outreach and education on various local transportation corridor projects, including the master plan for the Tampa Bay Area Regional Transportation Authority (TBARTA), which spanned many Florida counties (Hillsborough, Pasco, Pinellas, Hernando, Manatee, Sarasota and Citrus). Services included the development of a Public Involvement Plan (PIP) for the master plan and for several local corridor projects, and then implementation of these plans, to include public hearings, workshops, speaking presentations, media relations, social media support and writing collateral pieces.

Regional Transit Feasibility Plan (RTFP), Hillsborough, Pasco and Pinellas Counties, FL - Conducting public outreach and education in partnership with HART (Hillsborough Area Regional Transit Authority) and the FDOT. Services include creating a project website, coordinating media relations, social media support and public meeting planning. The purpose of the RTFP is to identify projects and create a plan for a regional transit network.

Invision: Tampa Streetcar Project, Tampa, FL – Conducting public outreach and education in conjunction with the City of Tampa and the FDOT. Services include media relations, social media support, website support, and public meeting planning. This project takes the first step towards making the streetcar a viable transportation option for the City's residents.



Arlena Dominick

Role

Acquisition Private
Property Agreements

Project Assignment

- Bay Indies Utility
Relocations Ph 1 & 2
- Eastgate Utility
Relocations Ph 2 and 3
- Water Main
Replacement Ph 7 & 8

Years of Experience

35 years

Education

Associates of Art,
Mass Communication
1995
St. Petersburg Junior
College

Professional Credentials

State of Florida Licensed
Real Estate Salesperson
#SL589147

Project Experience

City of Venice – Assist in set up and implementation of acquisition of Agreement program, for water and sewer relocation program, coordinated with City Attorney; 100% acquisition of Agreements for Seven projects: Phases 1-5, Venetian Parkway & East Gate Terrace and near finalization of Phase 6 for a total of Eight projects which required contact of approx. 1,000 owners through on-site meetings, telephone, email & US Mail. **Worked as a subconsultant to King on Phases 1, 3, 5 and 6 of the Water Main Replacement Program.**

Peace River Manasota Regional Water Supply Authority – Fee acquisition of Lake Suzy Delivery Property; Acquisition of permanent and temporary easements from eight land owners in Charlotte County for the Regional Transmission System Loop Phase 1A Interconnect, a joint project with Charlotte County Utilities.

City of Tarpon Springs – Alternative Water Supply Delivery Project- acquisition of fee simple, permanent and temporary easements for reverse osmosis project; included numerous presentations to Pinellas County Commissioners and County Boards; 20 water well sites, five monitor well sites and underground pipeline.

Manatee County – Ware's Creek – Dredging and widening project, 43 fee simple, permanent, subterranean and temporary easements; joint project with City of Bradenton and ACOE; 17th Street West (Memphis Avenue) Improvement Project – fee simple, permanent and temporary easement acquisitions (16 parcels); Manatee Agricultural Reuse Supply Project (MARS), Phases I, II, III.

City of Sarasota – Acquisition of permanent and temporary easements for Lido Beach Renourishment project, Bird Key Bridges Seawall Project, Old Bradenton Road and Dr. MLK roadway/streetscape improvements.

Tampa Bay Water Authority – Acquisition of Eldridge Wilde Wellfield Access, approximate 21.1 acre site; fee simple acquisition of one test production well site, three monitor well sites and related permanent and/or temporary easements, South Hillsborough County; on call acquisition consultant for fee simple, permanent and temporary easement acquisitions throughout Pinellas and Hillsborough County; Mid-Pinellas Brackish Water Desalination Project - rezone and acquisition of plant site, production and monitor wells.

City of North Port – Myakkahatchee Creek Greenway Project - contact 66 remaining vacant lot property owners within close proximity to the Myakkahatchee Creek to donate, sell or trade to City; acquired four acres of private land and traded four acres of City surplus land; Water Control Structure 101-acquire permanent and temporary easements for City renovation of structure; upcoming projects: Spring Haven and additional Myakkahatchee Creek properties to donate sell or trade.

Sarasota County School Board – Site selection services for the following sites: Central County High School, Venice and Central County Elementary School Site, North Port Suncoast Technical Institute, (SCTI), Central County Fleet Maintenance Facilities, Venice High School, Haberland Elementary, North Port, three elementary schools, one middle school and high school with athletic fields, North Port; Acquired 89 parcels, including residential homes for Haberland Elementary, North Port.

Sarasota County – Land Acquisition Consultant for Bahia Vista Street, DeSoto Road and Honore Ave road improvement projects, acquisition of fee simple, permanent and temporary easements; Bahia Vista – 1.7 mile road widening with 76 parent tract properties and over 221 individual acquisitions; DeSoto Road, eight parcels, a joint project with Benderson Development.

Sarasota County/SCAT – Acquire bus stop easements.



Shannon Wright



Role

Subsurface Utilities
Engineering / Investigations

Project Assignment

- Bay Indies Utility Relocations Ph 1 & 2
- Water System Improvements Phase 1, Potable Water Booster Pump Station, Storage Tank and Emergency Regional Interconnection
- Eastgate Utility Relocations Ph 2 and 3
- Water Main Replacement Ph 7 & 8

Years of Experience

26 Years

Education

Stranahan High School

Professional Credentials

Advanced MOT Certified

Confined Space Entry
Certified

FUCC - Utility Coordination
Construction Module #2 and
Design Module #3

Sunrail Roadway Worker
Protection Certification

CSX Roadway Worker
Protection Contractor

Safety Certification

Memberships

ACEC, FICE, Florida Utilities
Coordinating Committee

Project Experience

City of Venice Water Main Replacement Projects, Venice, FL – SUE Manager. As a subconsultant to King Engineering, OMNI provided SUE services for the construction of 22,185 LF of new water main as part of Phases 3, 5 and 6.

City of Venice Reclaimed Water Main Distribution System Improvements, Venice, FL – SUE Manager. As a subconsultant to King Engineering, OMNI provided SUE services for the extension of ±2500 lf of 8 to 12-inch reclaimed water main.

Bahia Vista Water Main Replacement, City of Sarasota, FL – As a subconsultant to King Engineering, SUE Manager for SUE services provided for this water main replacement (approximately 2,600 LF) project on Bahia Vista St. from Orange Avenue to U.S. 41. Responsibilities included: coordinating with all utility owners and gathering all record drawings, designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.

Regional Integrated Loop System Phase 1 Interconnect Peace River Manasota Regional Water Supply Authority, FL – SUE Manager. As a subconsultant to King Engineering, OMNI provided SUE services for this transmission main. The Phase 1 Interconnect will provide a direct plant-to-plant connection between the Authority's Peace River Facility located in DeSoto County and the City of Punta Gorda Shell Creek Treatment Plant located in Charlotte County. The interconnect is conceived as a 6.3 mile, 24-inch diameter regional water transmission main which will be used to convey water to and from the connected water treatment plants. Responsibilities include: coordinating with all utility owners and gathering all record drawings, designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.

Pebble Creek Repump Station and Force Main, Hillsborough County FL – SUE Manager. As a subconsultant to King Engineering, OMNI provided SUE services for this utility relocation project in Hillsborough County. Responsibilities included: coordinating with all utility owners and gathering all record drawings, designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.

Pump Station 054 and Force Main Extension, Pinellas County, FL – SUE Manager. As a subconsultant to King Engineering, OMNI provided SUE services for this pump station and force main project. Responsibilities included: notified Sunshine 811, coordinated with UAO representatives and locator, attended field and office meetings, collected utility information within the project limits, designated the horizontal position of utilities within the project limits and prepared field sketches and reports.

Sarasota WRF Headworks Improvements & Filter Replacement, Sarasota, FL – SUE Manager. As a subconsultant to King Engineering, OMNI provided SUE services for this filter replacement which will remove materials from the waste stream that could potentially damage downstream process equipment and reduce the overall treatment process reliability and effectiveness. Responsibilities include: coordinating with all utility owners and gathering all record drawings, designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.

Van Dyke Subregional Wastewater Treatment Plant (WWTP) 4" Reclaimed Water Line Design, Hillsborough County, FL – Provided SUE services for the proposed installation of a 4" reclaimed water line. Test holes and vertical depths were obtained using vacuum excavation techniques to safely expose utility. Survey services were also performed for the location of existing improvements and SUE designations for the proposed pipeline.

SR 54 East of Suncoast Parkway to West of US 41 (SR 45) Design-Build, Pasco County, FL, FDOT District VII – SUE Manager. Provided SUE services for this design-build multi-lane reconstruction project, which included: open and closed drainage improvements, addition of four new signalizations and lighting for the entire project length on both sides. Responsibilities included: coordinating with all utility owners and gathering all record drawings, designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.

SR 694/ Gandy Design-Build, Pinellas County, FL, FDOT District VII – SUE Manager. Provided SUE services for the design and reconstruction of SR 694/Gandy Boulevard in Pinellas County. Responsibilities included: coordinating with all utility owners and gathering all record drawings, designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.

SR 699/Gulf Boulevard from Park Boulevard to Walsingham Road, Pinellas County, FL, FDOT District VII – SUE Manager. Providing SUE services for this drainage improvement project. Responsibilities include: coordinating with all utility owners and gathering all record drawings, designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.

SR 600/US 92 (Hillsborough Ave) from Central to 56th Street, Hillsborough County, FL, FDOT District VII – SUE Manager. Providing SUE services for the widening, resurfacing and new construction of SR 50 from US 98 to US 301. Responsibilities include: coordinating with all utility owners and gathering all record drawings,

designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.

US 19 from Northside Drive to CR 95, Pinellas County, FL, FDOT District VII – SUE Manager. Providing SUE services for this multi-lane reconstruction project. Responsibilities include: coordinating with all utility owners and gathering all record drawings, designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.

SR 600 US 92/Hillsborough Ave from West of North 9th Street to North 11th Street, Hillsborough County, FL, FDOT District VII – SUE Manager. Providing SUE services for this milling and resurfacing project in Hillsborough County. Responsibilities include: coordinating with all utility owners and gathering all record drawings, designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.

US 41/SR 685 from North of Linebaugh Ave to North of Fletcher Ave, Hillsborough County, FL, FDOT District VII – SUE Manager. Providing SUE services for this milling and resurfacing project in Hillsborough County. Responsibilities include: coordinating with all utility owners and gathering all record drawings, designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.

SR 60 from Valrico Road to Dover Road, Hillsborough County, FL, FDOT District VII – SUE Manager. Provided SUE services for the widening of a 4-lane divided roadway to a 6-lane divided roadway, which included: curb and gutter, drainage, a 7' bike lane and a 5' sidewalk along both North and South sides of SR 60 from Valrico Road to East of Dover Road. Responsibilities included: coordinating with all utility owners and gathering all record drawings, designating and locating all utilities within the project corridor, reviewing utility mark-ups and communicating all findings with engineer of record and utility owners.



3. Project team experience/references

Section 3

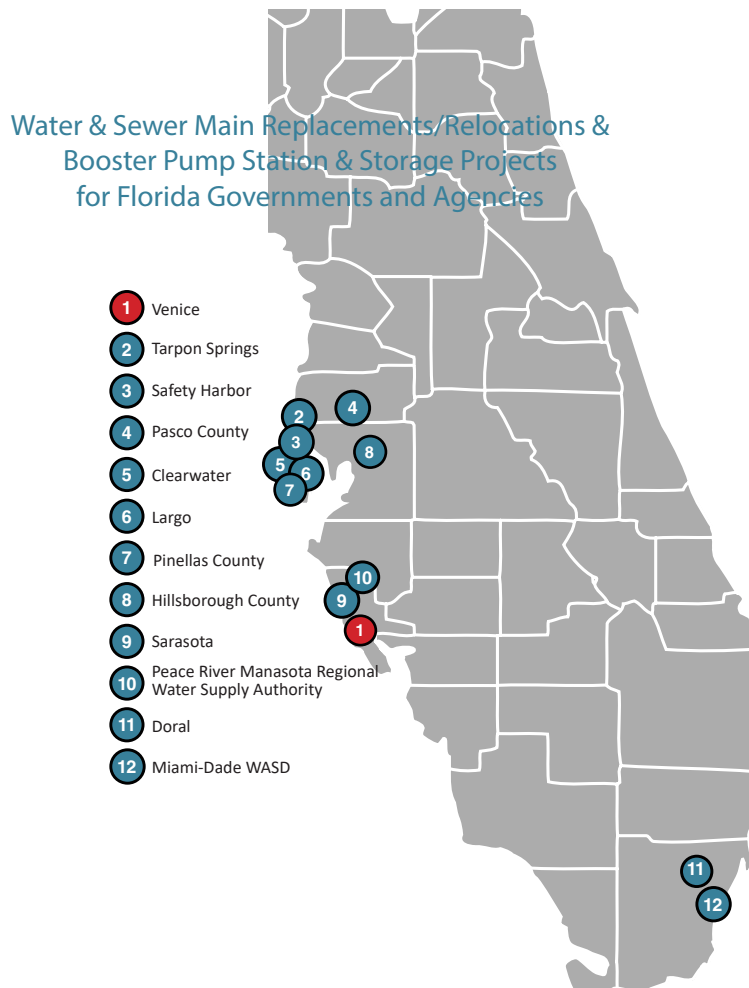
PROJECT TEAM EXPERIENCE/ REFERENCES

As outlined in previous sections and demonstrated by our Team members' resumes, the King Team has an abundance of recent and identical experience with projects just like those proposed by the City. Namely, our team has local, personal and recent experience with:

- Watermain replacement projects in existing neighborhoods involving new services on private property, including Phases 1, 3, 5 and 6 of the City's Water Main Replacement Program;
- Sanitary sewer systems in existing neighborhoods, including new laterals on private property;
- Ground storage tanks, booster pump stations and interconnects with the Regional Water System.

The map below depicts the communities and government agencies for which we have performed these services. Full project descriptions for similar projects are presented on the following pages, arranged with water and sewer utility projects presented first, followed by ground storage tank, booster pump station and interconnect projects.

We have the experience and depth of staff necessary to successfully complete these projects and surpass your expectations!



Water Main Replacement Program | Venice, FL

Many City of Venice residents receive water from small diameter water mains made of unlined cast iron and located in rear lot easements. King was hired by the City to perform an evaluation of the City's water system to identify locations of galvanized and cast iron water mains, develop a GIS map for planning purposes, and evaluate various technologies for assessing pipe conditions.

To eliminate the unlined mains and provide improved service, the City implemented a Program to eliminate unlined mains and mains in rear easements by constructing new mains along streets, relocating individual meters into the right-of-way in front of all properties, running a new service from the meter to the building, and abandoning the mains that are located in rear easements.

To date, King has been selected by the City to provide design, permitting, and construction management services for four (4) phases of this eight (8) phase Program. Projects have included:

- Phase 1 (completed): $\pm 5,000$ LF of new 6-inch and 8-inch water mains, abandonment of existing 2-inch through 4-inch mains, relocation of ± 141 private services, and a 10-inch directional drill under Hatchett Creek.
- Phase 3 (completed): $\pm 5,100$ LF of 6-inch water main, abandonment of existing 2-inch through 4-inch mains and relocation of ± 139 private services.
- Phase 5 (in construction): $\pm 9,200$ LF of 6-inch water main, abandonment of existing 2-inch through 4-inch mains and the relocation of ± 160 private services – including a number of commercial and fire services.
- Phase 6 (100% design complete): $\pm 7,475$ LF of 6-inch water main abandonment of existing 2-inch through 4-inch mains and the relocation of ± 100 private services



RELEVANT PROJECT HIGHLIGHTS

- Identical scope as the proposed Water Main Replacements Phases 7 and 8 project
- 26,775 LF of new water mains in established areas
- New water services on private property
- Abandonment of existing mains

CLIENT REFERENCE

City of Venice, FL

CONTACT

Javier Vargas, PE, Utilities Director
941-882-7309
jvargas@venicegov.com

CONSTRUCTION COST

\$6.4 million

DATE OF COMPLETION

Ph. 1: 2015
Ph. 3: 2016
Ph. 5: 2019
Ph. 6: 2020

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Project Manager

Patience Anastasio, PE
Project Engineer

David Greer, PSM
Survey Manager

Chris Hutton
GIS Specialist

Arlena Dominick
Private Property Agreements

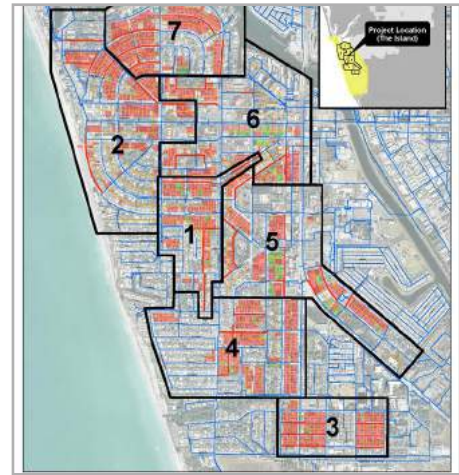
Driggers Engineering Services, Inc.
Geotechnical Engineering

OMNI Communications, LLC
Subsurface Utility Engineering

Phases 5 and 6 are being funded with State Revolving Loan funds. In all phases, the water mains were/are being installed using a combination of open trench and horizontal directional drill construction. The means of installation was determined based on the level of restoration that would be required and the potential disruption to residents.

The program is also being used to bring all affected lots into conformance with the City's new back-flow prevention program with double check valves or reduced pressure zone backflow preventers, and pressure relief valves where applicable, being added to services depending on the level of risk (i.e. private well or reclaimed water for irrigation).

At the completion of construction, all open cut streets and intersections have been milled and overlaid, providing residents with not only improved water service but also rehabilitated roadways and, in some cases, improved stormwater drainage.



Green Springs & South Green Springs Water Main Replacements | Safety Harbor, FL

The City of Safety Harbor is in the process of eliminating deteriorated cast iron water mains. To assist in this effort, King was retained by the City to provide design, permitting, and bidding for replacement water mains and service connections to existing meters in existing heavily treed and landscaped residential neighborhoods. The projects include installation of new water mains via close tolerance horizontal directional drill and open cut, water service laterals, installation of valve and appurtenances, installation of fire hydrants, abandonment and grouting of existing of water mains, restoration of curbs, driveways, sidewalks and roadways.

For the South Green Springs Water Main Replacement Project King provided design, permitting, and bidding services for 8,000 LF of replacement water mains and service connections to existing meters. The project involved construction of 3,500 LF of 6" PVC water mains by open-cut installation method, construction of 500 LF of 6" PVC water main by close tolerance horizontal directional drill (HDD) methods, construction of 4,000 LF of 2" PVC water main by HDD method, installation of approximately 100 water service laterals to private properties.

The Green Springs Water Main Replacement Project included 5,200 LF of new 6-inch water mains and the replacement of water services to 71 properties. The water mains were installed using the Close Tolerance Horizontal Directional Drill method resulting in installation depths between 30 and 42 inches and minimizing root damage to the large amount of Grand Oak trees along the streets.

Both projects required an FDEP Notice of Intent to Use the General Permit for Construction of Water Main Extensions for PWSs.



RELEVANT PROJECT HIGHLIGHTS

- 13,200 LF of water mains in existing residential neighborhoods installed using Close Tolerance HDD to control depths
- Coordination with homeowners for 171 new service installations
- Heavily treed with grand oaks and established landscaping
- Abandonment of existing water mains
- Roadway, sidewalk and curb restoration

CLIENT REFERENCE

Safety Harbor, FL

CONTACT

Michelle Giuliani
(727) 724-1555
mgiuliani@cityofsafetyharbor.co

CONSTRUCTION COST

Green Springs - \$1.3 M
South Green Springs - \$1.2 M

DATE OF COMPLETION

Green Springs - 2018
South Green Springs - 2016

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge / QA-QC

Loc Truong, PE
Project Manager

Matt Davis, PE
Project Engineer

David Greer, PSM
Survey Manager

Driggers Engineering Services, Inc.
Geotechnical Engineering

13th Ave. N to 9th Ave. N Water Main Replacements & Espiritu Santo Springs Subdivision | Safety Harbor, FL

As part of its continuing program to eliminate deteriorated cast iron and galvanized steel water mains the City of Safety Harbor hired King to provide design, permitting, and bidding services for the replacement of approximately 2,100 LF of 12-inch water mains from 13th Avenue North to 9th Avenue N. including new services to residential and commercial lots along the water main routes.

Services included:

- Locating and designating existing utilities
- Replacement of existing water mains to improve service and fire coverage
- New services to lots and private meter relocations
- Coordination with homeowners for the new service installations
- Backflow prevention improvements
- FDEP, FDOT, USACOE and County permitting

The Espiritu Santo Springs Subdivision and Washington – Brennan Subdivision Water Main Replacement Project includes the replacement of 11,565 LF of 2-inch and 6-inch water mains using Close Tolerance Horizontal Directional Drilling to control main depths to between 30 and 42 inches and to minimize root damage to the Grand Oak trees along the streets. The project also includes new water services to 100 private lots.



RELEVANT PROJECT HIGHLIGHTS

- 13,665 LF of water mains in existing residential neighborhoods installed using Close Tolerance HDD to control depths
- Coordination with homeowners for 144 new service installations
- Heavily treed with grand oaks and established landscaping
- Abandonment of existing water mains
- Roadway, sidewalk and curb restoration

CLIENT REFERENCE

Safety Harbor, FL

CONTACT

Michelle Giuliani
(727) 724-1555
mgiuliani@cityofsafetyharbor.co

CONSTRUCTION COST

13th/ 9th Ave - \$900,000
Espiritu Santo Springs \$1 M

DATE OF COMPLETION

13th / 9th Avenue - 2017
Espiritu Santo Springs - 2019

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge / QA-QC

Loc Truong, PE
Project Manager

Matt Davis, PE
Project Engineer

David Greer, PSM
Survey Manager

Driggers Engineering Services, Inc.
Geotechnical Engineering

Pete Bottone, PWS, CERP
Ecological Services



Miami-Dade Water and Sewer Department Consumer Line Relocation | Miami, FL

The Miami Dade Water and Sewer Department has established a Consumer Line Relocation (CLR) Program for the replacement of undersized water mains and the transfer of water service connections from the rear and side yards to the front of the properties. The current water system has over 600 miles of small diameter pipe lines (less than 4") which are over 30 years old. Due to the age and size of these pipe lines they are deteriorating and are not able to efficiently function under the current demand.

King was retained to provide design, program and construction management services for Phase 2A of the Consumer Line Relocation (CLR) program. The program consists of the conversion of over 2,730 water services from the rear to the front of the properties to abandon old, leaky, small diameter, rear water mains. Conversion involves installation of services from existing front water mains and relocating the water lines within the properties to a new water meter box in the front.

At the County's request, 7 bid packages were prepared to facilitate award to small local contractors. All 7 bid packages were prepared on a fast-track basis within 9 months, with a total construction values of \$17M.

Services included program management, property inventory, creation of an asset management system and dashboard, design, permitting, contract documents, owner notifications and securing agreements to work on private property, public official coordination, bidding support services, and construction management and inspections.

Geographic Information System (GIS)

The process workflow is being executed and tracked by the creation of a custom enterprise database, created by King, through the usage of ArcGIS Online as well as other field application software's, such as Survey 123, Collector, Navigator, Operations Dashboard and Workforce for ArcGIS, among others.



RELEVANT PROJECT HIGHLIGHTS

- Relevant Project Highlights
- 2,730 new water services to private lots and abandonment of rear lot services and water meters
- Residential neighborhoods
- Obtaining Owner Notifications/Agreements
- Development of customized GIS database

CLIENT REFERENCE

Miami-Dade Water & Sewer Department, FL

CONTACT

Rey Abreu, PE
786-552-8340
rjabr01@miamidade.gov

CONSTRUCTION COST

\$17 Million

DATE OF COMPLETION

Ongoing

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge / QA-QC

Ricardo Maristany, PE
Project Manager

Mariana Evora, EI
Project Engineer

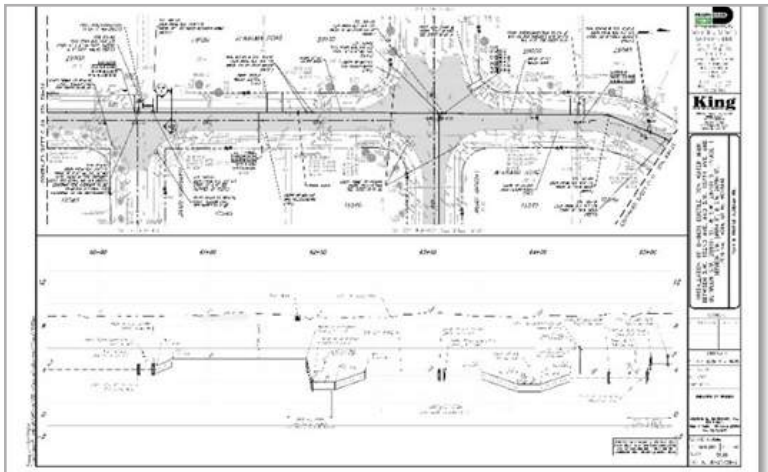
Lisel Suarez, EI
Engineer

The database was designed to integrate multiple software applications that when combine act as a single database. Integration of the different software applications allowed the database to be hosted online via a private and secure webpage. The intent was to utilize the online database as a live document repository while having the ability to give “real time” updates on the status of each water service relocation. Some of the capabilities included the creation of web maps, web applications, dashboards, assign tasks, data collection, document repository and visual and statistical analysis.

Miami-Dade Water and Sewer Department Small Diameter Water Main Ph 1 & 2 | Leisure City, FL

The Miami Dade Water and Sewer Department (MDWASD), retained King to provide surveying, technical memorandum, design, cost estimating, scheduling, permitting, and construction support services for the design of approximately 25,000 linear feet of replacement an 8 and 6-inch water mains in the area of Leisure City.

Major project components included the design of a new water mains to replace existing old and corroded 2- and 4-inch small diameter water mains currently providing service to the area, the installation of new water services for all properties being affected and the installation of new fire hydrants. The design accounted for future system expansion or improvements, utility relocations, roadway improvements, inclusion of new pedestrian ramps where nonexistent, roadway resurfacing and applicable MDWASD water criteria standards.



RELEVANT PROJECT HIGHLIGHTS

- 25,000 LF of replacement water mains in existing residential neighborhoods
- New water services to private lots
- Abandonment of existing water mains
- Roadway restoration / improvements

CLIENT REFERENCE

Miami-Dade Water & Sewer Department

CONTACT

Carlos Benavides
786-552-4361
cbenavides@miamidade.gov

CONSTRUCTION COST

Ph 1 – \$2.2 million
Ph 2 – \$2.4 million

DATE OF COMPLETION

Design is 100% complete. The project was split into two packages, one of which is in construction.

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge / QA-QC

Ricardo Maristany, PE
Project Manager

Mariana Evora, EI
Project Engineer

Lisel Suarez, EI
Engineer

Bahia Vista Street Water Main Replacement | Sarasota, FL

King is providing design, permitting, surveying and construction management services for the replacement of 2,600 LF of existing 8- and 6-inch cast iron and asbestos cement water main along Bahia Vista Street from Orange Avenue to US-41 with a new 12-inch ductile iron water main to be constructed in the roadway via open trench. The project also includes new services to 61 lots and complete milling and overlaying of the existing roadway – which is an original brick roadway overlaid in the 1980s.

The project includes a crossing of Osprey Avenue. Because Osprey Avenue is currently being reconstructed, the project was divided into two phases so that work in the intersection can be completed ahead of the remainder of the project. Phase 1 includes replacement of the water mains in the Osprey Avenue intersection and is currently in construction. Phase 2, which includes the remainder of the new water mains, is on hold pending resolution of a funding source.



RELEVANT PROJECT HIGHLIGHTS

- 2,600 LF of 8-inch and 6-inch water main replacements in an existing heavily vegetated residential area
- New water services and meters
- Milling / Overlaying existing roadway

CLIENT REFERENCE

City of Sarasota, FL

CONTACT

Seton Katz
813-880-8882
Seton.katz@sarasotafl.gov

CONSTRUCTION COST

\$2.1 million (est.)

DATE OF COMPLETION

Phase 1 – 2018
Phase 2 - TBD

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge and
Project Manager

Sharmeela Khemlani, EI
Project Engineer

David Greer, PSM
Survey Manager

Greg Baksis, PSM
Project Surveyor

Omni Communications, LLC
SUE

Clearwater Septic to Sewer Program Idlewild/The Mall| Clearwater, FL

The City hired King to develop a city-wide Septic System Removal/Sanitary Sewer System Expansion Feasibility Report that included conceptual designs, construction cost estimates and funding alternatives for providing sewer service to lots currently without sewer service.

The Idlewild/The Mall developments contained ~450 septic systems and was the first area to be considered under the program. Various sanitary sewer systems were evaluated, which included a vacuum sewer system, a low pressure sewer system, a STEP sewer system and a conventional gravity sewer system to serve the area. Results were compiled into a Alternatives Analysis Report which also included a preliminary design, construction cost estimates, life cycle cost analysis and environmental impact assessment and was submitted to the EPA to serve as an Environmental Impact Document for the project's \$500,000 EPA grant. King assisted with grant applications meetings and negotiations with the EPA and the



RELEVANT PROJECT HIGHLIGHTS

- 20,000 LF Gravity Sewer Expansion in existing neighborhoods
- New sanitary sewer laterals on ~450 private properties and abandonment of existing septic systems
- EPA Grant Administration

CLIENT REFERENCE

City of Clearwater, FL

CONTACT

Lan-Anh Nguyen
727-562-4581
Lan-anh.nguyen@myclearwater.com

CONSTRUCTION COST

Idlewild/the Mall: \$6.5 million

DATE OF COMPLETION

Idlewild/the Mall – 2016

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge / QA-QC

Loc Truong, PE
Project Manager

Matthew Davis, PE
Project Engineer

David Greer, PSM
Survey Manager

Peter Bottone, PWS, CERP
Ecological Services

Orlando Serrano, Jr.
Construction Observation

Driggers Engineering Services, Inc.
Geotechnical Engineering

Angie Brewer & Associates, Inc.
Grant Assistance

Alternatives Evaluation Report served as an Environmental Impact Document needed to qualify the project for a Categorical Exclusion. King and a Team Member provided grant administration services for the project.

Subsequently, King provided final design, permitting and construction services for 20,000 LF of gravity sewer main and for the abandonment of 450+ septic systems. Of special importance was locating and obtaining the depth of the existing sewer lateral at the house and the septic tanks in order to properly design the depths of the sewer system. King provided public information assistance and coordination with property owners. The design also included water main replacements, new water services to all affected lots, new gas mains and storm sewer improvements that included the upgrade of $\pm 3,900$ LF of the existing storm sewer piping to 24" and 42" Reinforced Concrete Pipe (RCP), installation of forty (40) precast concrete storm manholes and inlets, construction of a floodplain storage pond, and other miscellaneous grading and draining improvements.

At the completion of the project all of the affected roads were milled and re-paved. The project was a huge success and resulted in a complete upgrade of the utilities level of service in the area, providing sewer service, eliminating sewage spills and flooding, and ending with completely re-paved roads

Clearwater Septic to Sewer Program. CR 193 and Grove Circle Sanitary Sewer System | Clearwater, FL

The City hired King to develop a city-wide Septic System Removal/Sanitary Sewer System Expansion Feasibility Report that included conceptual designs, construction cost estimates and funding alternatives for providing sewer service to lots currently without sewer service.

The Idlewild/The Mall developments contained ~450 septic systems and was the first area to be considered under the program. Various sanitary sewer systems were evaluated, which included a vacuum sewer system, a low pressure sewer system, a STEP sewer system and a conventional gravity sewer system to serve the area. Results were compiled into a Alternatives Analysis Report which also included a preliminary design, construction cost estimates, life cycle cost analysis and environmental impact assessment and was submitted to the EPA to serve as an Environmental Impact Document for the project's \$500,000 EPA grant. King assisted with grant applications meetings and negotiations with the EPA and the



RELEVANT PROJECT HIGHLIGHTS

- 6,000 LF gravity sewer expansion in existing neighborhoods
- New sanitary sewer laterals on ~75 private properties and abandonment of existing septic systems
- Roadway reconstruction

CLIENT REFERENCE

City of Clearwater, FL

CONTACT

Lan-Anh Nguyen
727-562-4581
Lan-anh.nguyen@
myclearwater.com

CONSTRUCTION COST

\$3 million

DATE OF COMPLETION

2017

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge / QA-QC

Loc Truong, PE
Project Manager

Matt Davis, PE
Project Engineer

David Greer, PSM
Survey Manager

Orlando Serrano
Construction Manager

Driggers Engineering Services, Inc.
Geotechnical Engineering

Alternatives Evaluation Report served as an Environmental Impact Document needed to qualify the project for a Categorical Exclusion. King and a Team Member provided grant administration services for the project.

Subsequently, King provided final design, permitting and construction services for 20,000 LF of gravity sewer main and for the abandonment of 450+ septic systems. Of special importance was locating and obtaining the depth of the existing sewer lateral at the house and the septic tanks in order to properly design the depths of the sewer system. King provided public information assistance and coordination with property owners. The design also included water main replacements, new water services to all affected lots, new gas mains and storm sewer improvements that included the upgrade of $\pm 3,900$ LF of the existing storm sewer piping to 24" and 42" Reinforced Concrete Pipe (RCP), installation of forty (40) precast concrete storm manholes and inlets, construction of a floodplain storage pond, and other miscellaneous grading and draining improvements.

At the completion of the project all of the affected roads were milled and re-paved. The project was a huge success and resulted in a complete upgrade of the utilities level of service in the area, providing sewer service, eliminating sewage spills and flooding, and ending with completely re-paved roads.

Clearwater Septic to Sewer Program Kapok Terrace Sanitary Sewer System | Clearwater, FL

As part of its ongoing Septic to Sewer conversion program, the City of Clearwater hired King to provide design, permitting, construction management and full-time construction observation services for the Kapok Terrace Sanitary Sewer System, which represents the third project in the Program. The project included approximately 7,000 LF of 8" gravity sewer main, 34 precast concrete manholes, miscellaneous stormwater improvements, roadway improvements, and abandonment of ~130 septic systems. Services also included public information assistance and coordination with property owners throughout construction.

As with the other City sanitary sewer projects, of special importance was locating and obtaining the depth of the existing sewer laterals and septic tanks at each house in order to properly design the depths of the sanitary sewer system. Working with a plumbing subcontractor during design, King located the septic system on each lot as well as the service lateral from the



RELEVANT PROJECT HIGHLIGHTS

- 7,000 LF gravity sewer expansion in AN existing neighborhood
- New sanitary sewer laterals on ~130 private properties and abandonment of existing septic systems
- Stormwater improvements
- Roadway improvements and reconstruction

CLIENT REFERENCE

City of Clearwater, FL

CONTACT

Ivan Dimitrov
727-562-4779
ivan.dimitrov@myclearwater.com

CONSTRUCTION COST

\$3.9 M

DATE OF COMPLETION

Ongoing

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge / QA-QC

Loc Truong, PE
Project Manager

Matthew Davis, PE
Project Engineer

David Greer, PSM
Survey Manager

Orlando Serrano
Construction Administration/
Observation

Driggers Engineering Services, Inc.
Geotechnical Engineering

Wekiva Engineering
Structural Engineering

home to the septic system. The depth of each lateral was surveyed in order to perform calculations ensuring that each lot could connect to the sewer system via gravity.

The design also included replacement of water services that were not in compliance with the City's current standards, complete milling and resurfacing of all roads within the project areas, and miscellaneous roadway improvements. Roadway improvements included the expansion of Merrill Ave., and design of t-turnarounds at existing dead-end streets. The t-turnarounds were designed to provide increased access within the neighborhood by emergency and trash/recycling collection vehicles.

Stormwater improvements included design of approximately 1,000 LF of RCP storm sewer pipe ranging in size between 15" and 30" diameter, 12 precast stormwater structures, and 2,800 LF of 8" underdrain.

Lake Tarpon Sanitary Sewer Expansion (Phase 3)| Tarpon Springs, FL

The City of Tarpon Springs has implemented a program to eliminate septic systems in neighborhoods surrounding Lake Tarpon in order to improve groundwater quality, reduce the levels of coliform being discharged to the lake, and to improve the level of service to its customers. King provided design, permitting, bidding, and construction management services for Phase 3 of the Program, which included approximately 3,000 LF of 8-inch gravity sewer mains, 12 manholes, 450 LF of 4-inch C-900 PVC force main, new service laterals to 56 private lots and the reconstruction of the roadway from edge-of-pavement to edge-of-pavement within the neighborhood.

The initial design phase included an Alternatives Analysis in which King evaluated multiple tie-in locations for the new gravity sewer system in order to eliminate the need for a lift station.

Methods to positively locate the sewer lateral location and depth on each property, employed and perfected on the City of Clearwater's Septic to Sewer projects, were employed in order to ensure that all of the lots along the new sewers can discharge into the sewer via gravity flow.



RELEVANT PROJECT HIGHLIGHTS

- 3,000 LF Gravity Sewer Expansion in existing neighborhoods
- 12 manholes
- Edge-of-pavement roadway reconstruction

CLIENT REFERENCE

City of Tarpon Springs, FL

CONTACT

JBob Robertson
941-316-1776
rrobertson@ctsfl.us

CONSTRUCTION COST

\$3 million

DATE OF COMPLETION

2018

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge

Loc Truong, PE
Project Manager

Matt Davis, PE
Project Engineer

David Greer, PSM
Survey Manager

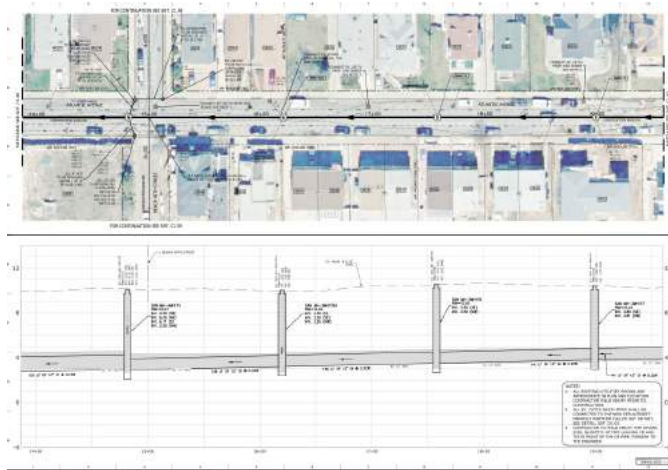
Brett Meyer
Construction Administration/
Observation

Driggers Engineering Services
Geotechnical Engineering

Seagate Combined Sewer System | Coney Island, New York

The Seagate subdivision is located in Coney Island, Brooklyn, New York and comprises 860 residential properties served by a combined gravity sanitary sewer and storm sewer system. In 2012, Hurricane Sandy damaged a significant portion of the combined sewer system. As part of ongoing FEMA funded Disaster Management services provided by our affiliate, CG3PL, King was retained to provide design, bidding, and construction management of the replacement sanitary and storm sewer system.

The project includes conducting video assessment of the existing sewer systems for areas of blockage and back slope sewer mains, design for the removal and replacement of gravity sewer main ranging from 8-inch thru 24-inch along with the replacement of 180 sanitary sewer manholes and the connection of 860 sewer laterals. King also designed the removal and replacement of 90 storm sewer catch basins and approximately 2,000 LF of storm sewer pipe ranging from 6-inch thru 12-inch.



RELEVANT PROJECT HIGHLIGHTS

- Replacement of over 20,000 LF of 8", 10", 12", 18" and 24" gravity combined sanitary/storm sewer with 860 laterals to adjacent private lots
- Replacement of 180 precast concrete sanitary sewer manholes
- Replacement of approximately 2,000 LF of 6" – 12" storm sewer and 90 precast concrete storm catch basins

CLIENT REFERENCE

Seagate Association
3700 Surf Avenue
Brooklyn, NY 11224

CONTACT

Barbara Garofalo
347-525-4374
bgarofalo@sgany.org

CONSTRUCTION COST

\$25,000,000

DATE OF COMPLETION

November 2018, in construction

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge / QA-QC

Loc P. Truong, PE
Project Manager

David E. Weber, P.E.
Project Engineer

Wet Weather Force Main Pump Station & Monitoring System | Largo, FL

Despite a lengthy program of sewer re-lining by the City of Largo, analysis showed that flows from six major pump stations increased significantly during wet weather, leading to multiple sewer overflows. After significant analyses, it was decided to construct a Wet Weather Force Main System to allow flows from those pump stations to automatically bypass the gravity interceptor system and instead be conveyed directly to the City's wastewater treatment facility through a new dedicated force main when the potential for overflows is detected.

King was contracted as part of a 2-firm team to provide preliminary engineering, design, permitting and construction services for the monitoring system, pump station improvements and new, 12-mile force main system. King's specific scope of services included the following:

- Steady-state and transient hydraulic modeling of the entire 12 miles of force main and six pump stations,



RELEVANT PROJECT HIGHLIGHTS

- 7 miles of force main
- Upgrades to 4 lift stations
- Residential areas
- Crossing Roadways & RR Crossings / Waterbodies

CLIENT REFERENCE

City of Largo, FL

CONTACT

Chuck Mura, PE
727-587-6713
cmura@largo.com

CONSTRUCTION COST

\$38 million

DATE OF COMPLETION

2017

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge

Benjamin Turnage, PE
Project Manager

Patience Anastasio, PE
Project Engineer

David Greer, PSM
Survey Manager

Orlando Serrano, Jr.
Construction Observation

Brett Meyer
Construction Observation

Driggers Engineering Services, Inc.
Geotechnical Engineering

- Topographic survey of the entire 12-mile force main route,
- Ecological Services and environmental permitting
- Route evaluation of three potential alternatives,
- Integrity evaluation and diagnostic testing of ± 3 miles of existing 16- and 20-inch force main using Pure Technologies' Smartball and ultrasonic bracelet probe methods,
- Civil and mechanical design of four submersible lift station upgrades, including a 580 gpm duplex, a 1,100 gpm duplex, a 1,400 gpm triplex, and a 1,100 gpm triplex
- Design of ± 7 miles of 12-inch to 20-inch force main (ductile iron, PVC, and fusible PVC) through residential streets, across three major Pinellas County Roads and across the Pinellas Trail. Due to the heavy congestion of utilities and residences, roadway crossings, and waterbodies, much of the force main system was designed to be installed using trenchless methods. Two roadway crossings and one railroad crossing were installed by jack and bore in 24-inch to 30-inch steel casings. Six (6) horizontal directional drills of 14-inch to 20-inch fusible PVC, totaling approximately 12,000 lf, were constructed, including one 2,000-foot drill under the County's John Taylor Park Lake. The project also included two 20" x 16" line stops required to bypass existing flows for tie-ins at the upgraded pump stations.
- Construction management services & construction observation for two (2) full-time inspectors.

Lake Avenue Sanitary Sewer Extension | Largo, FL

King provided planning, conceptual design, design, cost estimation, permitting and construction management services for the expansion of the Largo sanitary sewer collection system and abandonment of private septic systems at Lake Avenue, Southwind Lane, and Cheryl Road. This project was completed in conjunction with the Ulmerton Road widening project to save on design costs and allow for construction of up to 18' deep sewers in the roadway. The project included installation of approximately 200 LF of 4" force main, 600 LF of 6" force main, 4,800 LF of 6"-10" sanitary sewer plus the construction of a new duplex submersible lift station and abandonment of existing Lift Station #33. The project included a 10-inch sanitary sewer in 24" steel casing @15' deep under active CSX railroad.



RELEVANT PROJECT HIGHLIGHTS

- 5,600 LF Sanitary Sewer / Force Mains
- Residential/Commercial area
- Abandonments
- 10-inch sanitary sewer installed beneath active CSX railroad

CLIENT REFERENCE

City of Largo, FL

CONTACT

Chuck Mura, PE
727-587-6713
cmura@largo.com

CONSTRUCTION COST

\$2.0 million

DATE OF COMPLETION

2018

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge

Benjamin Turnage, PE
Project Manager

David Greer, PSM
Survey Manager

Orlando Serrano, Jr.
Construction Manager

Carastro & Associates, Inc.
Electrical Engineering

Ulmerton Road Utility Relocations | Largo, FL

In conjunction with the FDOT widening of Ulmerton Road, the City Largo retained King to coordinate with FDOT, other utility owners, and the roadway design engineer(s) of each section, and to prepare Utility Work by Highway Contractor Agreement plans and documents for each section. Overall, the seven projects included 14,750 LF of 4"-8" sanitary force main, 4,750 LF of 8"-12" reclaimed water main, and 14,000 LF of 8"-18" gravity sewer. Several construction methods were utilized, including deep open cut adjacent to the roadway, horizontal directional drill, micro tunnel and jack-and-bore. All aspects of the project were coordinated with FDOT and prepared in compliance with their electronic delivery (PEDDS) requirements.

Much of the alignment consisted of deep open cut installation adjacent to the roadway – though trenchless methods were required in several areas to cross roadways, drainage canals, etc.:

- Horizontal directional drills of 2-inch to 12-inch HDPE FM and RCW,



RELEVANT PROJECT HIGHLIGHTS

- 14,750 LF of force mains
- 4,750 LF of reclaimed water mains
- 14,000 LF gravity Sewer
- Alignment adjustments for utilities including, gas, power and TV & fiberoptics

CLIENT REFERENCE

City of Largo, FL

CONTACT

Chuck Mura, PE
727-587-6713
cmura@largo.com

CONSTRUCTION COST

\$4.89 million

DATE OF COMPLETION

2016

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Quality Control &
Principal-in-Charge

Benjamin Turnage, PE
Project Manager

Orlando Serrano, Jr.
Construction Observation

Brett Meyer
Construction Observation

Driggers Engineering Services, Inc.
Geotechnical Engineering

- Jack-and-bores of 4-inch to 12-inch ductile iron FM in 16-inch steel casings @ 15 ft depth
- A pilot-tube micro tunnel of 10-inch @ 25' shaft depth high-density clay jacking pipe, to minimize impacts to traffic from installation of gravity sewer in the traffic lanes.

Utility Coordination – With the design of each section, King has reviewed the City's existing utility system(s) and made recommendations to improve conditions, reduce the amount of facilities and piping to maintain, reduce costs, and eliminate private pump stations and septic systems. Being a heavy commercial corridor with little or no new right-of-way expansion, each section required coordination of alignment adjustments with all utilities involved – including water, sewer, gas, power, TV and fiberoptic.

All design files and submittals were completed in accordance with FDOT's Production Criteria Handbook, Utility Accommodation Manual, and Professionals' Electronic Data Delivery System (PEDDS).

Miscellaneous Utility Relocations | Hillsborough County, FL

King Engineering has been an active engineering consultant for assignments issued under Hillsborough County's Miscellaneous Utilities Relocations Contract since 2008 and has been providing coordination, design, permitting, construction, and other services as required for the relocation of utilities and for new utilities. To date, projects have included:

- SR 574 / Dr. Martin Luther King, Jr. Blvd, Parsons Ave. to Kingsway Road –replacement of approximately 1,000 LF of 8" WM with 3,250 LF of 12" WM to provide system extensions, interconnections, and accommodate road widening (Completed: 2017)
- SR 574 / Dr. MLK Jr. Blvd, Kingsway Rd to McIntosh Rd – project included extending the County Potable water system with approx. 3,400 LF of 12-inch WM and relocate approximately 2,350 LF of 4-inch sewer force main in conjunction with the FDOT road reconstruction and widening project, to extend water service and system interconnections along the FDOT project limits. (Ongoing)
- SR 589 / Veterans Expressway from Memorial Hwy to Gunn Hwy – relocation of 600 LF of 6-inch FM and 1,500 LF of 12-inch to 16-inch FM. Managed construction services provided by King and certified construction of the utilities complete. (Completed: 2016)
- 589/Veterans Expressway from Gunn Highway to Van Dyke Rd – coordination for protection of existing utilities crossing the Veterans Expressway. (Completed: 2016)
- SR 60/Adamo Dr, East of US 301 to Falkenburg Rd – replacement of 3,250 LF of 16-inch FM & 450 LF of 24-inch RCW to accommodate roadway and storm improvements. (Completion: 12/2018)



RELEVANT PROJECT HIGHLIGHTS

- 18,000 LF Water / Sewer Force Mains
- Along highly trafficked roadways
- Completed in accordance with FDOT standards and requirements

CLIENT REFERENCE

Hillsborough County, FL

CONTACT

Kevin Moran, PE
813-272-5977 Ext. 43356
morank@hillsboroughcounty.org

CONSTRUCTION COST

\$6.2 million (Est.)

DATE OF COMPLETION

Ongoing

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge/QA-QC

Benjamin Turnage, PE
Project Manager

Patience Anastasio, PE
Project Engineer

David Greer, PSM
Survey

Brett Meyer
Construction Observation

Omni Communications, LLC
SUE

- US 301 @Balm Riverview Rd – replacement of 1,900 LF of existing 12-inch to 16-inch asbestos concrete water main in conjunction with roadway and storm improvements, also designed by King. (Completed: 2014)
- Baker Canal Improvements/Relocations – replacement of 100 LF each of 12-inch WM & 4-inch FM to accommodate County canal drainage improvements. (Completed: 2015)
- Harney Rd @ Williams Rd – 4-inch & 8-inch WM & FM (Completed: 2015)
- Lake June – 200 LF EA 6" WM & 6" FM (Completed: 2014)

Permitting has included FDEP/EPC/Health Department water and wastewater permits, FDOT utility permits, SWFWMD Environmental Resource Permit, review by the USACOE and wetland permits with the EPC.

PRMRWSA Regional Integrated Loop System, Phase 2 | DeSoto, Sarasota and Charlotte Counties and the City of North Port, FL

Peace River Manasota Regional Water Supply (PRMRWSA) retained King to provide design, permitting, construction management and full-time construction observation services for the project, which consisted of a 7-mile long 42-inch ductile iron pipe, 1,400 LF of 24-inch ductile iron water main (West End connection to Harbor Blvd), and three meter stations at the Peace River Facility, Price Boulevard and Serris Drive. The meter stations at Price Boulevard and Serris Drive served as interconnects to the City of North Port's water system and included full metering and telemetry systems and the capability for water to flow in either direction if necessary in an emergency.

Services included planning and hydraulic analysis of the existing regional water system that provides potable water to the City of North Port and DeSoto, Charlotte and Sarasota counties through over 30 miles of 12, 20, 24, 36 and 42-inch transmission mains.



RELEVANT PROJECT HIGHLIGHTS

- 7 miles of 42-inch DIP water main
- 3,000 LF 24-inch DIP water main
- Three interconnects and meter/telemetry stations with the city of North Port and Charlotte County's water system

CLIENT REFERENCE

Peace River Manasota Regional Water Supply Authority

CONTACT

Patrick Lehman
941-316-1776
plehman@regionalwater.org

CONSTRUCTION COST

\$10.2 million

DATE OF COMPLETION

2012

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal

Thomas Traina, PE
Project Manager

Loc Truong, PE
Project Engineer

Brett Meyer
Construction Observation

David Greer, PSM
Survey

Carastro & Associates, Inc.
Electrical Engineering

Driggers Engineering Services, Inc.
Geotechnical Engineering

The new pipeline was installed parallel to the Authority's existing 36-inch South Regional Transmission Main (SRTM) and interconnects were installed between the two mains to provide additional redundancy, as well as a means of flushing each of the lines using water from other main. Interconnection of the mains, along with 1,600 LF of 24" HDPE water main installed between the transmission mains and Reservoir 1 alleviated regulatory concerns with flushing and disinfection by allowing the flushing water to be returned to the reservoir for reuse.

The project included an upstream 42-inch venturi flow meter station at the Authority's treatment plant, four jack and bore crossings of roads and drainage culverts, and interconnections with five existing pipelines. Two meter stations were designed and constructed for connection to the City of North Port. The new pipeline was installed parallel to the Authority's existing PCCP 36-inch South Regional Transmission Main (SRTM) and interconnects were installed between the two mains to provide additional redundancy, as well as a means of flushing each of the lines using water from other main. Interconnection of the mains, along with 1,600 L F of 24" HDPE water main installed between the transmission mains and Reservoir 1 alleviated regulatory concerns with flushing and disinfection by allowing the flushing water to be returned to the res ervoir for reuse.

This construction project was completed 7% under the \$10.9M budget and on time.

PRMRWSA Integrated Loop System Phase 1 Interconnect | City of Punta Gorda, Charlotte and Desoto Counties, FL

The Peace River Manasota Regional Water Supply Authority (PRMRWSA) retained King to perform preliminary engineering services, design, permitting, and construction management services for 6.3 miles of 24-inch potable water transmission main including two interconnects and metering/telemetry stations with DeSoto County's and the City of Punta Gorda's water systems.

King performed preliminary engineering services which included evaluating demands and delivery pressures and developing a hydraulic model to determine the pipe size, the need and/or location for a storage tank and/or re-pump station, and chemical feed systems. We also identified and evaluated potential routes, identified land acquisition and permitting requirements and prepared an opinion of probable construction cost and implementation schedule. Resulting information and recommendations were compiled and reported in the Basis of Design Report submitted to the Authority.

The project includes a 3,500 LF horizontal directional drill crossing of Shell Creek at the City of Punta Gorda's Henrickson Dam, three jack and bore crossings of roads and drainage culverts and interconnections to existing pipelines. A meter station was designed for connection to the City of Punta Gorda, which included the ability to exchange water with the City, and were provided with flow control valves and magnetic flow meters for billing purposes. King obtained the following permits: Florida Department of Environmental Protection (FDEP) Domestic Water Permit, an FDEP Environmental Resource Permit (ERP), a U.S. Army Corps of Engineers Nationwide Permit, an FDOT Utility Permit and a Florida Fish and Wildlife Commission Gopher Tortoise Relocation Permit.

As part of preparing the project for construction, King developed a Prequalification Package defining minimum experience and other requirements for contractors and directional drill subcontractors to bid the job. As a result, six contractors and four drilling subcontractors have been selected and will be asked to bid the project.



RELEVANT PROJECT HIGHLIGHTS

- 6.3 miles of 24-inch potable water transmission main
- Two interconnects and metering/telemetry stations with DeSoto County's and the City of Punta Gorda's water systems

CLIENT REFERENCE

Peace River Manasota Regional Water Supply Authority

CONTACT

Fordyce Ritz
941-316-1776
fritz@regionalwater.org

CONSTRUCTION COST

\$8.23 million

DATE OF COMPLETION

2020

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal/QA-QC

Thomas Traina, PE
Project Manager/ EOR

Patience Anastasio, PE
Project Engineer

Lizeth Mora, EI
Project Engineer

Matthew Davis, PE
Project Engineer

Carastro & Associates, Inc.
Electrical Engineering

Driggers Engineering Services, Inc.
Geotechnical Engineering

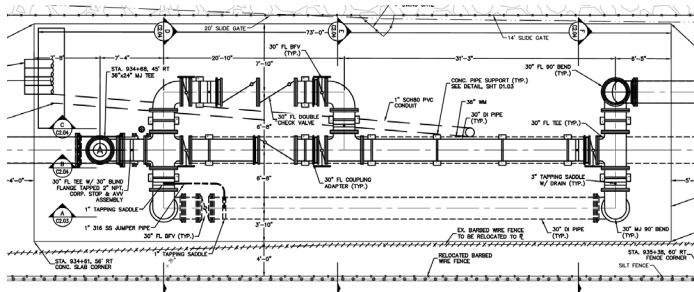
DJ Public Relations
Diane Jones, MPA, APR
Public Outreach

Regional Integrated Loop System Phase 3B | Sarasota County, FL

King was retained to perform preliminary engineering services, design, permitting and construction services for approximately 45 miles of 48-inch and 1 mile of 36-inch potable water transmission main, and interconnect/meter assemblies for Phase 3B of the Peace River Manasota Regional Water Supply Authority's (Authority) Regional Integrated Loop System. The project also included land planning and conceptual engineering for a storage tank and re-pump station. The pipeline will continue the existing regional transmission system from a location north of Knights Trail Road to Clarke Road.

Our team performed preliminary engineering services which included review of all existing data, drawings, engineering reports and other data involving the project area. We evaluated demands and delivery point locations for Sarasota and Manatee Counties to develop a hydraulic model to determine the pipe size, delivery pressures for the need and/or location for a storage tank and/or re-pump station, and chemical feed systems. We also identified and evaluated potential routes for the pipeline and identified land acquisition and permitting requirements.

Services provided for conceptual design of the storage tank and booster pump station included identifying available land in the area and evaluating each potential location's zoning and other requirements. Once potential properties were identified, conceptual layouts of the facility were prepared, including interconnects with the adjacent County water system. After performing its own analysis, Sarasota County elected to upgrade its existing Pump Station No. 5 rather than have the authority construct a new facility.



RELEVANT PROJECT HIGHLIGHTS

- 5 miles of 48-inch potable water transmission main
- Interconnect and metering/telemetry station with the Sarasota County water system
- Storage Tank and Repump Station conceptual design

CLIENT REFERENCE

Peace River Manasota Regional Water Supply Authority

CONTACT

Kevin Morris
941-316-1776
kmmorris@regionalwater.org

CONSTRUCTION COST

\$13.4 million

DATE OF COMPLETION

2021

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal/QA-QC

Thomas Traina, PE
Project Manager/ EOR

Patience Anastasio, PE
Project Engineer

Loc Truong, PE
Project Engineer

Lizeth Mora, EI
Project Engineer

David Greer, PSM
Survey Manager

Driggers Engineering Services, Inc.
Geotechnical Engineering

Carastro & Associates, Inc.
Electrical Engineering

Lehigh Acres Master Lift Station 44 Rehabilitation | Lee County, FL

This project involved the rehabilitation and upgrading of Lift Station No. 44, an existing duplex station originally constructed in the 1970s. King provided professional engineering services including surveying and data collection, hydraulic modeling, alternatives analysis, preliminary engineering, design, permitting and construction phase services for replacing the 4 MGD triplex master wastewater pump station with a new submersible station. Improvements included rehabilitation of the existing wet well, installing new pumps and variable frequency drives, piping replacements, electrical system, generator, controls, telemetry and odor controls upgrades.

RELEVANT PROJECT HIGHLIGHTS

- 4 MGD triplex lift station
- Installation of VFD
- PLC Controls
- SCADA
- Remote telemetry

CLIENT REFERENCE

Florida Governmental
Utility Authority, FL

CONTACT

Robert Dickson
407-629-6900
RDickson@govmserv.com

CONSTRUCTION COST

\$879,950

DATE OF COMPLETION

2010

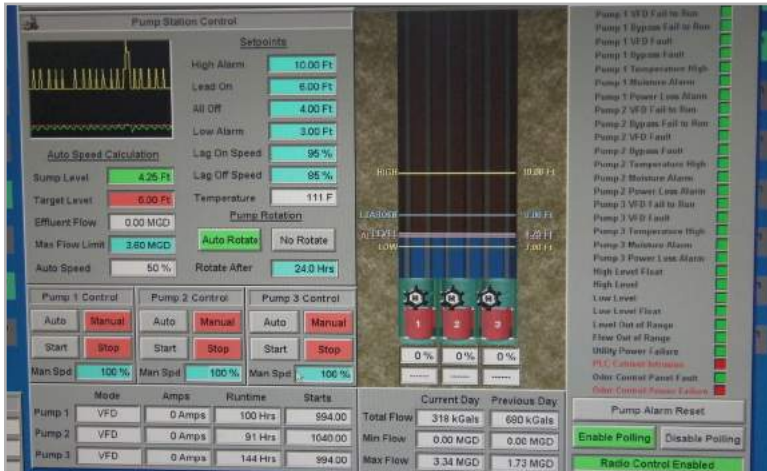
KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge

Loc Truong, PE
Project Manager

Carastro & Associates, Inc.
Electrical Engineering

Driggers Engineering Services, Inc.
Geotechnical Engineering



Rehabilitation of Lift Stations #33 and #42 | Clearwater, FL

King was retained by the City of Clearwater to provide design, permitting, bidding, and construction administration services for improvements to these two submersible sanitary sewage pump stations.

Lift Station #33 was originally constructed as a “canned” dry pit/wet pit duplex station in the middle of a flood plain and elevated around the surrounding area. Design for its replacement included complete demolition of the existing station and its replacement with a new fiberglass, pre-packaged pump station, a new elevated valve box and service platform along with a set of aluminum stairs for access. Continuous bypass pumping was required during demolition and construction.

Lift Station #42 was an existing 3,400 gpm triplex station experiencing severe corrosion of the interior of the concrete wet well and its piping. The station was also experiencing problems with odors and well as periodic failures of its control and backup power system. Design for its rehabilitation included



RELEVANT PROJECT HIGHLIGHTS

- Rehabilitation of two submersible wastewater pump stations
- Odor control system
- Controls / SCADA / Telemetry
- Extensive bypass pumping

CLIENT REFERENCE

City of Clearwater, FL

CONTACT

Michael Gilliam
727-562-4554
Michael.gilliam@myclearwater.com

CONSTRUCTION COST

\$979,093

DATE OF COMPLETION

2014

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge

Thomas Traina, PE
Project Manager

David Greer, PSM
Survey Manager

Peter Bottone
Ecological Services

Brett Meyer
Construction Observation

Carastro & Associates, Inc.
Electrical Engineering

Driggers Engineering, Inc.
Geotechnical Engineering

structural repairs and lining of the wet well, new stainless steel riser pipes, replacement of discharge valves, a new odor control system, repairs to the existing generator radiator system, new variable frequency drives and a new control system tied into the city's SCADA system. Continuous bypass pumping was required during construction.

The project involved the following elements:

Lift Station 42

- Wet well structural repairs and lining
- New stainless steel discharge piping and valves
- A new odor control system
- New variable frequency drives
- A new generator radiator
- Site accessibility improvements

Lift Station 33

- New fiberglass packaged pump station
- Elevated valve box and access platform to raise the controls above flood elevation
- New SCADA and telemetry system
- New electrical system and controls
- Access road improvements

Rehabilitation/replacement of both pump stations involved extensive bypass pumping and was completed successfully with no adverse impacts to the surrounding environment. In fact, the work at Lift Station 42 significantly reduced odors in the surrounding neighborhood.

Logan Booster Pump Station | Pinellas County, FL

When bids for the original design of the new Logan Pump Station came in \pm \$2 million over budget, Pinellas County hired King to take over the project, perform value engineering and then redesign and re-permit the project to meet the available budget.

The pump station consists of a new 30 MGD potable water re-pump system consisting of four (4) new 250 HP pumps, a 3,200 sq. ft. pump building and electrical room, variable frequency drives, a new 1,500 kW standby diesel generator set, installation of 36-inch, 24-inch, and 18-inch yard piping and valves, PLC and SCADA upgrades, new metering systems and instrumentation and electrical system modifications. King used innovating approaches to provide the required functionality which ultimately resulted in bids coming in \$95,000 below budget.

Subsequent to design and bidding, King provided construction management services for the project. Timing and coordination played key roles during construction, as the existing pump station had to remain in service for the duration. The initial construction phasing plan included three separate 24-hour shutdowns, during which the County's water system would run on the head pressure provided by the two full 5 MGD ground storage tanks. Planning and communication helped reduce the number of 24-hour shutdowns to two.

Additionally, King performed SCADA start-up and testing services to ensure full functionality of the PLC and SCADA upgrades including its integration into the County's system which is monitored at the Keller Water Treatment Facility in the north part of the County.



RELEVANT PROJECT HIGHLIGHTS

- 30 MGD potable water booster station
- Pump building
- Yard piping & valves
- New generator and electrical building
- SCADA start-up & testing

CLIENT REFERENCE

Pinellas County, FL

CONTACT

Tom Menke
727-453-3611
tmenke@pinellascounty.org

CONSTRUCTION COST

\$4.84 million

DATE OF COMPLETION

2018

KEY TEAM MEMBERS & ROLES

Christopher Kuzler, PE
Principal-in-Charge & Q/C

Loc Truong, PE
Project Manager

Sharmeela Khemlani, EI
Project Engineer

Orlando Serrano
Construction Observation

John Sobczak, PE
Structural Engineering

Carastro & Associates, Inc.
Electrical Engineering

North Booster Pump Station Improvements | Pinellas County, FL

Pinellas County's 100 MGD North Booster Station receives potable water from a 60-inch regional transmission main and either stores it in five 5 MG tanks for re-pumping or boosts the pressure directly from the regional main. Water from the facility originally fed the northern part of the County's distribution system and also pushed water south to the County's Logan Booster Pump Station. Due to water quality issues, the County elected to modify the station and associated piping so that it only conveys water south.

King was selected to provide design and construction management services for the required modifications. Services also included an evaluation of the condition of the entire facility along with recommendations for additional improvements. The project ultimately included replacement of four (4) booster pumps with new 25 MGD, 500 HP each (total of 100 MGD) horizontal split case pumps, installation of 60-inch, 48-inch, 42-inch, and 36-inch ductile iron yard piping and valves, a new 24-inch influent flow meter assembly, rehabilitation of



RELEVANT PROJECT HIGHLIGHTS

- 100 MGD potable water booster pump station
- 4 new booster pumps / 25 MGD – 500 HP
- 36-, 42-, 48-inch ductile iron yard piping
- Interconnections between new 36-inch & 60-inch piping to regional transmission main

CLIENT REFERENCE

Pinellas County, FL

CONTACT

Tom Menke
727-453-3611
tmenke@pinellascounty.org

CONSTRUCTION COST

\$4 million

DATE OF COMPLETION

2016

KEY TEAM MEMBERS & ROLES

Christopher Kuzler, PE
Principal-in-Charge & Q/C

Loc Truong, PE
Project Manager

David Greer, PSM
Survey Manager

three valve pits, PLC and SCADA upgrades and instrumentation and electrical systems modifications. Piping modifications required extensive analyses of existing 48 and 60-inch prestressed concrete cylinder pipe (PCCP) to determine joint locations and restraint configuration in order to integrate the new piping and valves.

Connection of new 36 and 60-inch piping to existing transmission mains adjacent to US-19 right-of-way required that a new 60-inch butterfly valve be installed on the existing PCCP pipe at a depth of 9 feet on the edge of the pump station building footer. Installation of the valve would require not only deep excavation along the pump station building footer, but also shutting down the entire facility. In addition, the PCCP joint configuration was unknown, requiring that the existing location be excavated in order to determine the type of valve to be specified.

In order to reduce the construction contract time associated with exposing the pipe and then ordering the valve, and the potential Change Orders from unforeseen conditions, King recommended and worked with the County to issue a separate contract during the design phase to have a contractor install the required sheeting, excavate and confirm the pipe configuration. This allowed the valve to be ordered immediately upon Notice to Proceed, saving ± 3 months of construction contract time and the associated costs, and significantly reducing risk and the required plant down-time.

Boyette Road Water Treatment Plant | Pasco County, FL

King was retained to provide planning, design and permitting services for a 3.6 mgd (average daily flow), expandable to 4.8 mgd - potable water booster station facility improvements consisted of a high service pump station; 5 MG ground storage tank; sodium hypochlorite storage and feed system with provisions to add caustic and ammonia facilities in the future.

The booster station serves to collect, store and re-pump water from the County's distribution system and boost it to outlying areas of the County located at higher elevations. The WTP facility has a peak hour pumping capacity of 10 mgd - expandable to 13.2 mgd - and is designed for 24 hours a day / 7 days a week operation to automatically maintain system pressure. The site has been designed to accommodate a future 5 MG storage tank.

The 160-foot diameter prestressed concrete tank was designed to store up to 5 MG of potable water. The tank has a 33-foot sidewater depth and is equipped with a 24-inch diameter inlet pipe and meter assembly, a 36-inch diameter outlet pipe, a domed concrete roof (12-foot rise), two access hatches with internal and external ladders, and an overflow pipe.

The tank is connected to a 9,000 SF indoor high service pump station that includes space for chemical storage/feed and electrical equipment. The station is equipped with four horizontal split case pumps, each rated 3.3 MGD at 200-foot TDH with 150 Hp motors. Three pumps are equipped with VFDs and space has been provided for a future fifth pump.

In addition to the mechanical components, the new facility is equipped with a computerized maintenance management system and is connected into the County's existing VPN SCADA network.



RELEVANT PROJECT HIGHLIGHTS

- 3.6 MGD / 4.8 MGD potable water booster station
- 5 MG ground storage tank
- Connected to County's VPN SCADA network

CLIENT REFERENCE

Pasco County, FL

CONTACT

Robert Sigmond
727-847-8041
rsigmond@pascocountyfl.net

CONSTRUCTION COST

\$7.8 million

DATE OF COMPLETION

2009

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Technical Advisor / QA-QC

Thomas Traina, PE
Project Manager / EOR

John Sobczak, PE
Structural Engineering

Carastro & Associates, Inc.
Electrical Engineering

Southeast & Southwest Water Treatment Plants | Pasco County, FL

King provided design, permitting, and construction services for two new water supply, storage and pumping facilities.

The Southeast WTP included design, permitting, and construction services for a 14 MGD water treatment plant (WTP) including a 5 MG ground storage tank, chemical storage and feed systems, a 14 MGD high service pumping system, ± 5.3 miles of potable water mains, 3.1 miles of raw water mains, a new on-site well, well rehabilitations and a plant security system. Permitting included a SWFWMD Water Use Permit for the new well and modification to the County's existing WUP for the existing wells in order to consolidate capacity into the new well, take older wells out of service and integrate three wells from a former private utility.

The Southwest WTP included design, permitting, and construction services for a 2.0 MGD WTP which included a 4.0 MG finished water storage tank, a 3.75 MGD high service pumping station, 7,000 lf of raw water collector mains, well rehabilitations, an administration building and a plant security system. A majority of the ground storage tank was constructed underground in order to better fit into the surrounding community.



RELEVANT PROJECT HIGHLIGHTS

- 14 MGD WTP & 2.0 MGD
- 5 MG ground storage tank
- 4.0 MG ground storage tank
- 14 MGD high service pumping system
- 5.3 miles potable water mains

CLIENT REFERENCE

Pasco County, FL

CONTACT

Robert Sigmond
727-847-8041
rsigmond@pascocountyfl.net

CONSTRUCTION COST

Southeast – \$8.3 million
Southwest – \$5.6 million

DATE OF COMPLETION

Southeast – 2007
Southwest – 2005

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
QA-QC

Thomas Traina, PE
Project Manager / EOR

Brett Meyer
Field Representative

John Sobczak, PE
Structural Engineering

Carastro & Associates, Inc.
Electrical Engineering

J.C. Bermudez Park Storage Tank and Pump Station | Doral, FL

The City of Doral retained King Engineering to provide modeling, design, permitting, construction support services, and O&M manual for the fast-track implementation of a \$2.9 M recycled storm water irrigation system for the 80-acre park.

Major project components included emergency lake intake structure, 2 MG ground storage tank, 3,000 gpm stormwater pump station, 130 micron disk filters with automatic backwash, gravity sand filter for backwash water, bleach disinfection system, 1,400 gpm irrigation pumps, 7,000 feet of 12" diameter looped main, irrigation system, and automated controls.

King developed a 20-year water balance model to calculate crop ET, rainfall-runoff, irrigation demand, and stormwater irrigation to determine optimal size of pump station and storage tank.

Construction documents were completed within 4 months of notice to proceed. SFWMD's conceptual ERP and CUP permit modifications were approved within 5 weeks of application submittal.

The project was partially funded by a \$1M alternative water supply grant from the SFWMD.

RELEVANT PROJECT HIGHLIGHTS

- 3,000 gpm pump station
- 2 MG ground storage tank
- SFWMD funding
- Fast-track

CLIENT REFERENCE

City of Doral, FL

CONTACT

Barbara Hernandez
(305) 593-6600
barbara.hernandez@cityofdoral.com

CONSTRUCTION COST

\$2.9 m

DATE OF COMPLETION

2012

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Principal-in-Charge/
QA-QC Officer

Tom Traina, PE
Engineer of Record



Belcher Road Reclaimed Water Storage and Booster Pump Station | Dunedin, FL

King was responsible for modeling, design and construction management services for a reclaimed water storage tank and high service booster pump station partially funded by the SWFWMD. The project required an updated hydraulic analysis of the City's reclaimed water transmission system and included a 2 MG ground storage tank, a 10 MGD booster pump station, a pump building, electrical, variable frequency drives, instrumentation, telemetry, yard piping, and other site improvements.

The facility was constructed adjacent to several residential communities and required coordination with the Homeowners' Associations in order to make efforts to match the appearance of adjacent buildings.

The project was completed in conjunction with Curlew Road Reclaimed Water Storage Tank and Booster Pump Station (also designed by King) which included the conversion of a potable water elevated storage tank to reclaimed water use and the construction of a booster pump station at the tank base.



RELEVANT PROJECT HIGHLIGHTS

- 10 MGD High service booster pump station
- 2 MG Ground storage tank
- SWFWMD funding
- Adjacent to residential communities
- Coordination with Homeowners Association

CLIENT REFERENCE

City of Dunedin, FL

CONTACT

Doug Hutchens
727-298-3005
dhutchens@dunedinfl.net

CONSTRUCTION COST

\$450,000

DATE OF COMPLETION

2002

KEY TEAM MEMBERS & ROLES

Chris Kuzler, PE
Project Manager

Carastro & Associates, Inc.
Electrical Engineering

4. Ability to perform the services expeditiously at the request of the City. Location and availability of technical support people and assigned project manager to the City



Section 4

ABILITY TO PERFORM THE SERVICES EXPEDITIOUSLY, LOCATION AND AVAILABILITY

ABILITY TO PERFORM THE SERVICES EXPEDITIOUSLY

The King Team is well positioned to perform the services of this contract effectively and expeditiously because...

- We have selected qualified, local staff with extensive, applicable experience and we can complete the projects using **in-house staff** with help from specialty discipline subconsultants with which we have a long history working on identical projects.
- We have a "Deep Bench" – we have enough local key staff with applicable skills and experience to be able to assign different Project Managers, Lead Design Engineers and Construction Field Representatives to each of the projects for which we would like to be considered.
- Key personnel are the same experienced, responsive staff that have been and are **working on recently assigned City projects** as well as past completed City projects. Because of this, **we already understand the nuances associated with your proposed projects.**
- Our team includes two important subconsultants, **Chris Sharek and Arlena Dominick**. Chris brings extensive knowledge of the City's utilities and Arlena brings invaluable experience with successfully streamlining the private property agreement process and has been doing so with King on City projects.
- As a locally based mid-sized firm, and with our extensive experience working with the City, King is able to react faster and more cost-effectively than other firms.
- **We Are There to Assist You!** - Our role is to assist you with your needs and act as an extension of your staff whether it involves a minor effort or a major project. We are there to help in any situation and in emergencies.
- **Responsiveness is our Policy** - Our "Quick Start" Client Care Program" dictates that we return phone calls and respond to emails within 4 working hours, and have staff available to meet with clients within 24 hours of a request.

WE HAVE 100+ PERSONNEL IN THE TAMPA BAY AND SARASOTA AREA AND A NATIONWIDE BACKUP CAPACITY OF 350+ QUALIFIED, EXPERIENCED STAFF.



We return phone calls and respond to emails within 4 hours and have staff availability to meet with our Clients within 24 hours of a request.

OFFICE LOCATION OF KEY STAFF

Current primary office locations for key personnel are listed below and are the same locations from we are currently successfully serving you. Given the magnitude of several of your proposed projects, we will have several of our key personnel and Construction staff work directly out of our Sarasota office while working on your projects.

KING ENGINEERING ASSOCIATES, INC. PRIMARY WORK LOCATION		
OFFICE LOCATION	TEAM MEMBER	
TAMPA OFFICE 4921 Memorial Highway, Suite 300 Tampa, FL 33634	Chris Kuzler, PE – Project Manager Loc Truong, PE – Project Manager Tom Traina, PE – Project Manager Ben Turnage, PE – Project Manager Patience Anastasio, PE Matthew Davis, PE David Weber, PE Kaitlin Dulaney, EI Lizeth Mora, EI Sharmeela Khemlani, EI	Cristina Lacorazza Cynthia Spidell, AICP David Greer, PSM Greg Baksis, PSM Peter Bottone, PWS, CERP Orlando Serrano, Jr Douglas Jennings Brett Meyer Christopher Hutton
SARASOTA OFFICE 2930 University Parkway Sarasota, FL, 34243	Denise Greer, PE, LEED	
MIAMI OFFICE 8700 West Flagler Street, Suite 180 Miami, FL 33174	Ricardo Maristany, PE Mariana Evora, EI Lisel Suarez, EI	

SUBCONSULTANTS PRIMARY WORK LOCATION	
FIRM NAME & OFFICE LOCATION	TEAM MEMBER
SHAREK SOLUTIONS, INC. 4080 Middlesex Place, Sarasota, FL 34241	Chris Sharek, PE
DRIGGERS ENGINEERING SERVICES, INC. 6185 Danner Drive, Sarasota, Florida 34240	F. Jaime Driggers, PE
CARASTRO & ASSOCIATES, INC. 2609 W. De Leon Street, Tampa, FL 33609	Paul Carastro, PE
WEKIVA ENGINEERING, LLC 711 N. Orange Ave., Suite A, Winter Park, FL 32789	John Sobczak, PE
OMNI COMMUNICATIONS, LLC 8509 Benjamin Road, Suite E, Tampa, FL 33634	Shannon Wright
ANGIE BREWER AND ASSOCIATES, LLC 9104 58th Dr E, Bradenton, FL 34202	Mark Brewer
ARLENA DOMINICK 825 S. Osprey Ave., #305, Sarasota, FL 34236	Arlena Dominick
DJ PUBLIC RELATIONS INC. 3030 Starkey Blvd., Suite 208, Trinity, FL 34655	Diane Jones, MPA, APR

THE BENEFITS OF UTILIZING SPECIALTY SUBCONSULTANTS

King is able to perform the core services of all four projects for which we are seeking selection. For the water and sewer projects, we have included specialty subconsultants for geotechnical engineering and Subsurface Utility Engineering, which are typically not in-house services provided by consulting engineering firms. We are happy to say that both **Driggers Engineering Services** and **OMNI Communications** have long standing relationships with King and have been working on our projects for many years, including the City's projects.

Subconsultants Chris Sharek and Arlena Dominick will be providing invaluable services and benefits that cannot be matched by using in-house personnel. Chris served as the City's Utilities Manager and Assistant City Engineer. As such, he brings extensive knowledge and history regarding the City's utilities. Arlena has proven, successful experience on City projects working with residents and businesses and obtaining private property agreements. **Keeping residents happy is key to the success of these projects, and Arlena's successful experience in this area cannot be match using in-house personnel.** The synergies between Arlena and our design team (namely Patience Anastasio, PE) on our past City projects has proven very successful and invaluable!

Carastro & Associates will be providing electrical engineering services and Wekiva Engineering will be providing structural engineering services for the Phase 1 Water Systems Improvements project. Both have been working as subconsultants to King for many years (Carastro for 20+ years and John Sobczak with Wekiva for 12+ years) and **have been involved with every one of our ground storage tank and booster pump station projects listed in this proposal.**

Angie Brewer & Associates, Inc.'s record with grant fund is unmatched in southwest Florida, and they have provided funding service to the City and for King on several similar projects. Using ABA on our team provides us with the ability to provide 3rd party verification during construction on SRF Loan funded projects.

The water and sewer projects in existing neighborhoods typically require extensive interface with local residents. While a designated Public Outreach program has not been necessary on the Water Main Replacement Program projects, the density and nature of the Bay Indies mobile home park may justify a more specific approach. If so, **Diane Jones of DJ Public Relations** will be available to assist with executing a formal Public Outreach program to keep the residents informed of the project and its progress. Diane has worked with King on similar projects – most recently having organized and conducted public meetings on the Peace River/Manasota Regional Water Supply Authority's Phase 3B and Phase 1 Regional Loop projects.

AVAILABILITY OF THE TEAM

We have the necessary people and resources to successfully execute the services required by this contract!

Availability of Our Proposed Project Managers

Chris Kuzler, PE is our proposed Project Manager for the City's Water Main Replacement, Phases 7 and 8 project. As you are aware, he has served in this same capacity for the Water Main Replacements Phases 1, 3, 5, and 6. Phases 1 and 3 are complete, Phase 5 is in construction. 100% design for Phase 6 has been completed. Chris' other primary assignments are the Cities of Clearwater and Tampa's solid waste transfer stations. Clearwater's facility has entered construction and design services for Tampa's facility will be completed by December. With the design services on these projects coming to an end, Chris has availability to manage the design of Phases 7 and 8 of the Program.

WE HAVE "DEPTH OF BENCH" AND ARE ABLE TO ASSIGN DIFFERENT PROJECT MANAGERS, LEAD DESIGN ENGINEERS AND CONSTRUCTION FIELD REPRESENTATIVES TO EACH OF THE PROJECTS FOR WHICH WE ARE ASKING TO BE CONSIDERED!

Loc Truong, PE is our proposed Project Manager for the City's Bay Indies Utility Relocations Phases 1 and 2. Loc's latest major project has been the design of the Seagate Sanitary Sewer System in Coney Island, NY. Design of that project has just been completed, making him available to manage the City's projects.

Ben Turnage, PE is our proposed Project Manager for Eastgate Utilities Relocation Phases 2 and 3. Ben's latest large assignments have been Hillsborough County's River Oaks Diversion Design-Build project and the City of Tampa's Upper Peninsula Stormwater System Utilities Design-Build project, both of which are in construction. He is also the Project Manager for the City of Sarasota's WRF Filter and Headworks project, which has just entered construction, freeing Ben up to manage design services on your projects.

Tom Traina, PE is our proposed Project Manager for the Water System Improvements: Phase 1, New Water Booster Station, Ground Storage Tank, and Regional Emergency Interconnection project. Tom's recent primary assignments have been the Peace River/Manasota Regional Water Supply Authority's Regional Loop System Phases 1 and 3B projects, both of which are designed and permitted and waiting to enter construction. With design of those two projects completed, Tom has availability to manage the design of the City's project.

Availability of Our Technical Staff

Our managers maintain workload projections for each department's staff so that they can properly predict staffing needs for the upcoming weeks. Staff reports are reviewed weekly to schedule deadlines and work assignments. These projections allow us to compare upcoming work versus the availability of key staff to ensure that we have adequate manpower available for our projects. King's

PROJECTED KEY TEAM AVAILABILITY OVER THE NEXT ONE YEAR PERIOD												
PROJECTS	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Christopher Kuzler, PE	30%	30%	35%	40%	45%	45%	50%	50%	55%	55%	55%	55%
Loc Truong, PE	50%	52%	58%	60%	65%	65%	65%	70%	72%	75%	75%	75%
Chris Sharek, PE, BCEE, PMP	20%	20%	30%	40%	50%	50%	60%	60%	70%	70%	80%	80%
O. Denise Greer, PE, LEED	40%	40%	40%	40%	45%	45%	45%	50%	50%	50%	50%	50%
Ben Turnage, PE	25%	25%	25%	25%	30%	30%	30%	30%	30%	40%	40%	40%
Tom Traina, PE	30%	30%	30%	30%	30%	30%	30%	30%	30%	35%	40%	40%
Patience Anastasio, PE	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	60%	60%
Ricardo Maristany, PE	20%	20%	20%	25%	25%	25%	25%	25%	25%	25%	30%	30%
Sharmeela Khemlani, EI	40%	40%	40%	40%	40%	40%	40%	40%	40%	55%	55%	55%
David Greer, PSM	25%	25%	30%	30%	35%	35%	40%	40%	40%	40%	40%	40%
Chris Hutton	30%	30%	30%	40%	45%	45%	45%	45%	45%	45%	45%	45%
Greg Baksis, PSM	30%	35%	35%	35%	40%	40%	45%	45%	50%	50%	55%	55%
Orlando Serrano, Jr.	50%	50%	50%	55%	55%	55%	55%	55%	70%	75%	75%	80%
Brett Meyer	40%	40%	40%	40%	40%	40%	40%	50%	50%	50%	50%	50%
Doug Jennings	35%	35%	35%	35%	35%	40%	40%	40%	40%	55%	60%	70%
Paul Carastro, PE	45%	35%	55%	55%	55%	60%	60%	60%	60%	60%	60%	60%
Jaime Driggers, PE	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Shannon Wright	55%	55%	55%	55%	55%	55%	55%	55%	55%	55%	55%	55%
Pete Bottone, PWS, CERP	30%	30%	30%	30%	30%	35%	35%	35%	35%	35%	35%	35%
Mark Brewer	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
John Sobczak, PE	30%	30%	50%	50%	50%	60%	60%	60%	60%	60%	60%	60%
Diane Jones, MPA, APR	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
Arlena Dominick	10%	5%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%

typical utilization averages between 60-65% annually. By doing so we are able to properly serve our clients and maintain a high level of personal service.

The Department Managers also anticipate future contracts and work orders in their projections to ensure continued access and availability of selected staff and resources. The chart below depicts our team's availability for the next year. Projected workloads decrease as projects become completed, increasing staff's availability over time and providing ample resources for King to commit to projects assigned under this contract. Note that Construction Field Representatives are all currently assigned to projects that are scheduled to be completed before or near the time the City's projects will be ready to enter construction and will be re-assigned as required.

DEMONSTRATED ABILITY TO PERFORM SERVICES SIMULTANEOUSLY AND EFFECTIVELY

ABUNDANCE OF RELEVANT EXPERIENCE WITH THE CITY OF VENICE AND NEIGHBORING COMMUNITIES. Upon review of the project experience of the Team and our references, you will note that we have established and maintained a highly personal and quality level of service to multiple clients. A majority of our work is issued through continuing contracts we hold with the 22 Florida governments and agencies. These contracts include many of the City of Venice's neighboring communities including: the City of Sarasota, Sarasota County, Peace River Manasota Regional Water Supply Authority, and the Englewood Water District and for the cities of Clearwater, Tampa, Largo, Dunedin, and Pinellas and Hillsborough counties. We have maintained many of these contracts for over 20 years! This is a true testament of our ability to effectively work on multiple projects simultaneously and our dedication to our client's projects.

BACK UP STAFFING. King has a total of 350+ professionals, technicians and support staff to draw upon for this contract, 100 of which work from our Sarasota and Tampa offices. Although we don't anticipate needing to do so, we can call on qualified personnel at our other offices located in Florida, Texas, the Carolina's, New York and California. Our business model projects continued growth over the next few years, which will further increase our personnel resources.

CONTINUITY. To provide continuity and avoid having things "fall through the cracks", once a group of professionals has been assigned to a project, they will remain with the project until its completion, including construction. We will make no substitutions to key staff without the City's consent.



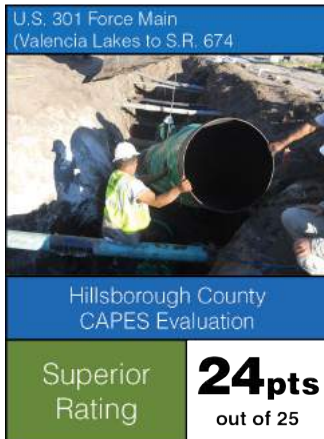
LOCATION. As a locally based, mid-sized firm and with our extensive experience working with the City, King is able to react faster, and more cost-effectively than other firms. We can "jump on" assignments and assist the City with unanticipated events rapidly and in a straightforward, uncomplicated manner.



TECHNICAL EXPERTISE. The King Team's comprehensive relevant project experience, longevity and our experience working with the City of Venice and other local communities enables us to perform the required services effectively and efficiently.

DAILY PROJECT MONITORING. For each project assignment, a critical path schedule will be developed concurrent with the Scope of Services to assist with planning of the required tasks and assigning personnel. The schedule will be reviewed on a daily basis to anticipate upcoming tasks and evaluate "who should be doing what". By doing so, proper manpower is planned for and assigned to the project.

OUR CLIENTS SAY IT BEST!



“ [King] has been providing us with professional engineering services since 1992. King has consistently worked diligently to meet the City's needs and we continue to be pleased with their performance.

- City of Dunedin
Douglas Hutchens - Director

”

PEACE RIVER MANASOTA REGIONAL WATER SUPPLY AUTHORITY

HON. CHRISTOPHER G. CONSTANCE
CHARLOTTE COUNTY

HON. ELTON A. LANGFORD
DE SOTO COUNTY

HON. JOHN R. CHAPPE
MANATEE COUNTY

HON. NORA PATTERSON
SARASOTA COUNTY

PATRICK J. LEHMAN, P.E., EXECUTIVE DIRECTOR

June 3, 2013

Lindsay Jaime, Contract Specialist
Department of the Navy
Naval Facilities Engineering Command, NAVFAC Southeast
Building 903 Yorktown Avenue
Jacksonville, Florida 32212-0030

Re: Letter of Reference
King Engineering Associates, Inc.

Dear Ms. Jaime:

King Engineering Associates, Inc. (King) has been contracted by the Peace River Manasota Regional Water Supply Authority (Authority) to provide engineering design and construction services on our Regional Loop Phase 2 Interconnect Project. Under this contract, they have performed hydraulic modeling of our regional potable water transmission system, evaluated service connections and proposed interconnects, sized transmission pipelines, completed a design, permitting, bidding and construction services. The project was successfully placed in-service in September 2012 within schedule and significantly below budget.

The quality of work provided by King demonstrated an understanding for both the technical and financial aspects. The quality of work was excellent and the project completed below budget as a result of project cost control by King. Contractual obligation by the Authority required specific project completion timeframes and King maintained compliance with the performance schedule for this project.

We have been very pleased with King's services and have always found them to be knowledgeable, responsive and professional with all tasks requested of them.

Please feel free to contact me if you need any additional information.

Sincerely,


Patrick J. Lehman, P.E.
Executive Director

cc: King Engineering

9415 TOWN CENTER PKWY ♦ LAKEWOOD RANCH, FLORIDA 34202 ♦ TEL (941) 316-1776 ♦ FAX (941) 316-1772 ♦ WWW.REGIONALWATER.ORG

♻️ printed on recycled paper



September 4, 2018

To Whom it May Concern,

King Engineering is the engineer of record for the City's Water Reclamation Facility Headworks and Filter Improvements Project. This project consists of constructing a new headworks channel with a new automatic bar screen and retrofitting two of the existing traveling bed filters with Aqua Diamond cloth media filters. Flow-thru capacity of these proposed improvements are about 12 MGD. Construction has just commenced using the Construction Manager at Risk (CMAR) contract process. King's knowledgeable staff and attention to detail through design has resulted in a complete work product, balanced pricing, timely permit approvals and is expected to generate minimum changes and result in minimal impacts to existing operations. I appreciate King's efforts on this project

Warm regards,

Seton Katz, PE

Capital Projects Manager

Department of Utilities • 1750 12th Street • Sarasota, Florida 34236 • (941) 955-2325 • FAX (941) 365-4840

5. Additional considerations

Section 5

OTHER CONSIDERATIONS

The services the City of Venice is seeking are identical to those we have been providing to you and your neighboring communities for many years. This experience, combined with our knowledge of the City's people and processes, our local project team, our commitment to the City and our outstanding working relationship with the Peace River/Manasota Regional Water Supply Authority, will ensure this success on all assignments.

In this section, we would like present our typical project approach, with special emphasis on the lessons learned working on yours and others' similar projects. These lessons learned will demonstrate that the King team is ready to hit the ground running and, unlike our competitors, will have no need to learn as we go! What does that mean to you? It means:

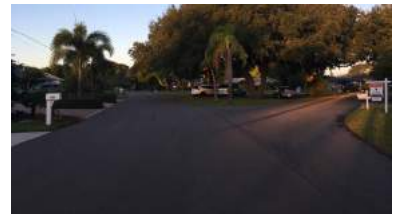
- A more streamlined completion of design and permitting;
- More cost effective scopes and fees;
- More complete drawings and specifications;
- Better bid pricing due to less unknowns;
- Less surprises during construction, and;
- HAPPIER RESIDENTS!

**OUR GOALS ARE TO BE AN
EXTENSION OF YOUR STAFF,
COMPLETE YOUR PROJECTS
SUCCESSFULLY AND MAKE
YOUR LIFE EASIER!**

King has visited and driven the proposed project sites to evaluate the projects and determine if there are any areas of special concern. The streets associated with **Water Main Replacement Phase 7** are much like those residential areas encountered on other phases of the program, although this area of the island is highly landscaped, well maintained and contains many large oaks trees. On the Phase 6 project, the City has expressed a desire to use horizontal directional drilling as much as possible to reduce impacts to residents, streets and trees and it appears that that approach will be valid and good approach for Phase 7.

Phase 8 of the Program would entail replacement mains along Tarpon Center Drive, which is mostly commercial and multi-family units – much like Phase 5 of the program, which was designed by King. This Phase will require additional analysis based on the recommendations of the City's Water Master Plan to determine the extent of the water main replacements.

Bay Indies is a well-manicured and densely laid out 55+ manufactured home community that will present many challenges including congested utilities behind the homes, narrow streets and a very active homeowner's association. Given that installation of the gravity sewer system will require excavation in front of the homes, it is likely that most of the new water mains will be installed by open cut concurrent with the sewer, making it very similar to the Idlewild/The Mall Sanitary Sewer system designed by King for the City of Clearwater. Where possible,



Armada Rd. N. Looking West



**Tarpon Center Dr.
Looking North**



Bay Indies Behind Homes



Bay Indies in Front of Homes

installing the new sewers and water mains in the grass areas in front of the lots will be pursued in order to reduce restoration costs. Care will need to be taken not to damage existing private utilities as well as irrigation systems, reclaimed water mains and City force mains. During preliminary design, reducing the number of lift stations will be evaluated based on feedback from the City and the condition of the existing lift stations.

Eastgate is a residential community not unlike the communities King has worked in under the Water Main Replacement Program. Phases 2 and 3 are divided by Hatchett Creek, however it does not appear that utilities will need to cross the creek. Except for segments of sewer behind the lots between Pinelands Avenue and Gulf Coast Boulevard, most of the sewers in the Phase 2 area are already in the road rights-of-way. Therefore, not all of the streets will need to be open cut and most of the water mains can be installed via horizontal directional drill to reduce asphalt restoration requirements. Most of the water and sewer mains in the Phase 3 area are behind the lots, therefore open cut construction for the sewer installation will be required in the front of the lots and, where possible, installing the new sewers and water mains in the grass areas in front of the lots will be pursued in order to reduce restoration costs unless the City wants to include reconstruction of the roadways in the project.



Pineland Avenue and 1st Street Looking East

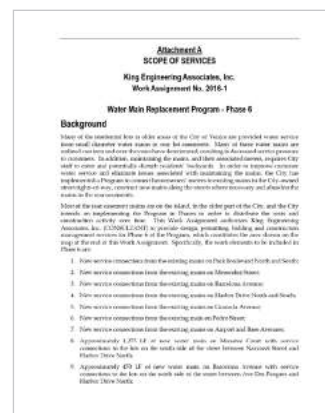
It's our understanding that the City has purchased a parcel at the east end of Gene Green Road and the southwest portion of the parcel is the designated location for the proposed **ground storage tank and booster pump station**. The land is currently zoned as Planned Industrial Development and would need to be re-zoned for public/government use. The tank would be filled from an interconnect/metering station with the Peace River/Manasota Regional Water Supply Authority's Phase 3A Regional Transmission main along Laurel Road. Two new pipes would need to be constructed within an easement parallel to Mestre Place: 1) roughly 6,500 LF of 12-inch main from the Authority's main on Laurel Road to the site and 2) roughly 4,700 LF of 12-inch main from the booster pump station discharge to the existing 12" water main already in this easement and terminating at Padova Way in the Venetian Golf and River Club. Automatic valves provided between the fill line and the discharge line would allow the tank to normally fill from the City's distribution system during off-peak hours, with the added ability to fill the tank from the Authority's regional main in an emergency. Providing additional automated valves and designing the metering systems in the interconnect to be capable of measuring flows in two directions would also provide the City the ability to pump into and supply the regional system in an emergency. This may also be required to make the project eligible for SWFWMD funding.



PROJECT SCOPE, SCHEDULE AND BUDGET DEVELOPMENT

Upon notice of selection, Mr. Kuzler and appropriate team members will meet with the City to identify and confirm the goals and objectives of each project awarded. We will then prepare well-defined Scopes of Services for execution of the projects. **Emphasis will be on ensuring that all efforts required to meet the City's needs are identified and that no extraneous efforts are included which will unnecessarily increase the time or budget for the projects.** It is anticipated that the Scopes of Services will be typical in format and will include the same sections as the scopes prepared under our current contract for Engineering Services for, Water, Wastewater and Reclaimed Water Systems.

Lessons learned through our experience with the Water Main Replacement Program is to verify:



WM Replacement Phase 6 Scope of Services

1. Which existing mains are proposed to be taken out of service;
2. Which lots are fed from those mains and the locations of their meters, and;
3. Which lots will need new water services.
4. That the valves that need to be closed to isolate mains for tie-ins and abandonments are in operating condition. In some cases, existing valves are inoperable, requiring a different design approach.

The City had a study done prior to Phase 1 of the Water Main Replacement Program identifying mains that needed to be replaced and the affected lots that will need new water services. Results were illustrated on an overall map dividing the Program into phases, and then individual maps for each phase. Since that time, experience has shown that the maps did not include all the affected lots, plus changes have been made to the system, pipes have been replaced, and new meters have been installed over time due to ongoing construction and development activities. Therefore, using the City's Utilities GIS and working with City staff, we will confirm the four items above to make sure that a means to feed all of the affected lots will be provided and that the correct locations and lengths for new water mains are included in the Scope.



As part of developing the Scopes of Services, we will also review the Water Master Plan being developed by Black and Veatch and the report developed by Arcadis regarding the proposed ground storage tank and booster pump station.

With a draft Scope defined, an initial critical path schedule will be developed using Microsoft Project, Primavera or Suretrack.

The schedule will take into account funding and other imposed deadlines in order to make sure that those deadlines are not forgotten and that all the other project tasks do not create issues with meeting those deadlines. A project fee budget will be developed by identifying team members' hourly rates and assigning estimated labor hours to each of the tasks identified in the Scope of Services. In this way, the City will be able to see the expected level of effort for each task and the logical sequence adding up to the total budget.



WM Replacement Phase 1 Initial Schedule

The draft Scope, Schedule and Budget will then be submitted to the City for review and all three will be finalized via an iterative and collaborative process in order to make sure the City's goals and needs are being addressed. The final Scope, Fee and Schedule for each assigned project will then be presented to the City Council for approval along with our Contract.

Preliminary Engineering

We will begin preliminary engineering with field data collection and, in parallel and if necessary, hydraulic modeling and evaluations to confirm the project's design requirements such as pipe diameters, sewer depths and slopes, etc. For the neighborhood utilities projects, Preliminary Engineering will include:

- Development and distribution of door hangers informing residents and businesses of the impending survey and other field work and providing them with a phone number to call with questions. Door hangers will be hand delivered to commercial establishments and businesses to ensure receipt.
- Topographic survey along the affected streets with proposed new mains.
- For projects involving sewer relocations, we will physically locate and survey the sanitary lateral on each affected lot. This is important in order to determine the route for the new sanitary lateral, but even more important, to ensure that the new sanitary sewer is designed with adequate depth to allow every lot to flow to



Door Hanger

the sewer by gravity. As part of our sanitary sewer projects for the City of Clearwater, we have developed a tried and true method for completing this by working with a plumbing company that has provided these services on every sewer project in existing neighborhoods that we have completed. The step-by-step process involves:

1. The plumber visits each lot and, via discussions with the property owner, visual observations of the lot and the vent on the building roof, and using probing rods, locates the existing sewer lateral. In difficult cases, a camera is dropped down the vent on the roof to locate the sewer lateral.
2. The plumber potholes the sewer lateral to get a depth to the top of the pipe and a pipe diameter and material. The hole is then backfilled with a metal disk buried ~4" below the surface and a flag and paint mark at the surface. The metal disk allows our surveyors to find the pothole location in the event the flag or paint mark are removed. Typically, King's surveyors coordinate with the plumbing company and follow behind the plumbing company within several days.
3. King's surveyors record a ground elevation at the lateral location and record the building finished floor elevation.

With the ground elevation at the lateral, the depth to the lateral and the pipe diameter, King's engineers can calculate a lateral invert elevation and using minimum slope requirements, determine the minimum required sewer depth to ensure that the lot can flow into the sewer system via gravity. This procedure is carried out using a spreadsheet so that the information for each lot is readily available and can be provided to the contractor.



The above procedure would be used in the Eastgate community. A more simplified approach will be used in the Bay Indies community since, in most cases, the sewer lateral from mobile homes can be visually located by looking in the crawl space under the home.

- Field visit and walkthrough of each property where water service and/or sanitary lateral relocation will take place to verify the existing meter, backflow device (if applicable) and water service connection locations, location for the new meter, and to select an initial route for the new water service and sanitary lateral. As part of this walkthrough, private property restoration requirements will be determined and quantified. The information will be recorded on standard GIS based forms developed for each lot and entered via mobile devices to be imported into the GIS database described below. This information will then be coordinated with sketches and agreements provided by Arlena Dominick to make sure the new services are designed in the location agreed upon with the property owner.
- We will call in a Florida One Call Design Ticket and send draft plans to the existing utilities to obtain the location of their existing facilities. This information will be combined with the visual observation of markings placed by utilities prior to the geotechnical field effort and utility information obtained as part of the surveying effort.
- If necessary, we will model the potable water system in the area to confirm the pipe sizes required to maintain pressures during peak hourly demands, maximum daily demands and fire flow conditions. Available pressures will be confirmed by performing fire hydrant flow tests on the mains feeding the area. Demands can be confirmed using historical water meter data. At a minimum, fire hydrant spacing will be confirmed to ensure that the maximum spacing between fire hydrants is in conformance with the City's codes.
- Similarly, if necessary, we will model the proposed sanitary sewer system to confirm required sewer diameters and lift station capacities. Flows will be estimated using historical water meter data and pump station run time/drawdown test data.

[illegible]

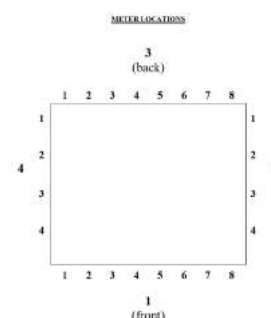
Lot Data Collection Form

If the City so desires, results of the preliminary engineering evaluations will be presented in a Basis of Design memorandum that will serve as the guideline for the project design. The memorandum will discuss the findings of the evaluations, project alternatives and preliminary Engineer's Opinions of Probable Cost. Once the elements of the project are determined, enough information will be available to conduct the first public meeting to inform the residents of the proposed work, obtain their initial feedback, and provide them with information regarding potential agreements that may be necessary to work on their property or in the rear lot easements.

PROPERTY OWNER AGREEMENT PROCESS/WORK ON PRIVATE PROPERTY

Performing work on private property introduces an entirely different level of complexity on a public utilities project. Thankfully, King has extensive experience with projects involving work on private property and has developed a streamlined approach to data collection, obtaining and coordinating agreements with property owners and then integrating the information into the design documents. Patience Anastasio, PE, has provided engineering services related to private property coordination on three of the City's Water Main Replacement projects and, in the course of working on those projects, has developed tools and a efficient approach as well as a great working relationship with Arlena Dominick, our Property Owner Agreement subconsultant. Patience will lead that effort on our assigned utility projects so that the City can benefit from her experience. In summary, the private property agreement process and its integration into the design involves the following tasks:

1. King obtains the City's Meter and Service Exchange Spreadsheet and confirms the lots for which agreements will be necessary. In some instances, although the new service line appears to be on private property, the City has a prescriptive easement due to the long-term existence of public water mains and meters on the properties and agreements are not required.
2. King performs the preliminary walkthrough described above and fills in the Lot Data Collection forms for each lot.
3. King provides the Meter and Service Exchange Spreadsheet, Lot Data Collection Forms and preliminary drawing sheets to Arlena Dominick, who begins her record collection.
4. Arlena researches and confirms property ownership information, contacts and meets with the owner at the lot to confirm the water service connection locations and quantity, the number of meters, presence of irrigation meters and backflow devices, the proposed new meter location and the proposed new water service and, if applicable, sewer lateral routes.
5. Arlena provides King with a marked up aerial sketch confirming water service connection locations and the routes for new services/laterals agreed to with the owner, along with any other special owner requests. King then transfers this information to the project drawings.
6. Arlena prepares the agreements and works with owners to have them executed. Following execution of the agreement, Arlena sends each property owner a thank you letter and continues to reply to property owner questions. Executed agreements are sent to the City Clerk to be recorded.
7. Arlena compiles all agreements, an updated Meter and Service Exchange Spreadsheet, sketches and other related information for each property in a binder that is provided to the City and ultimately to the contractor.
8. The contractor and the licensed plumber coordinate with the property owner, install and test the new service on private property, install the new meter and connect the lot to the new main.



Meter Location Grid



Property Owner Coordination



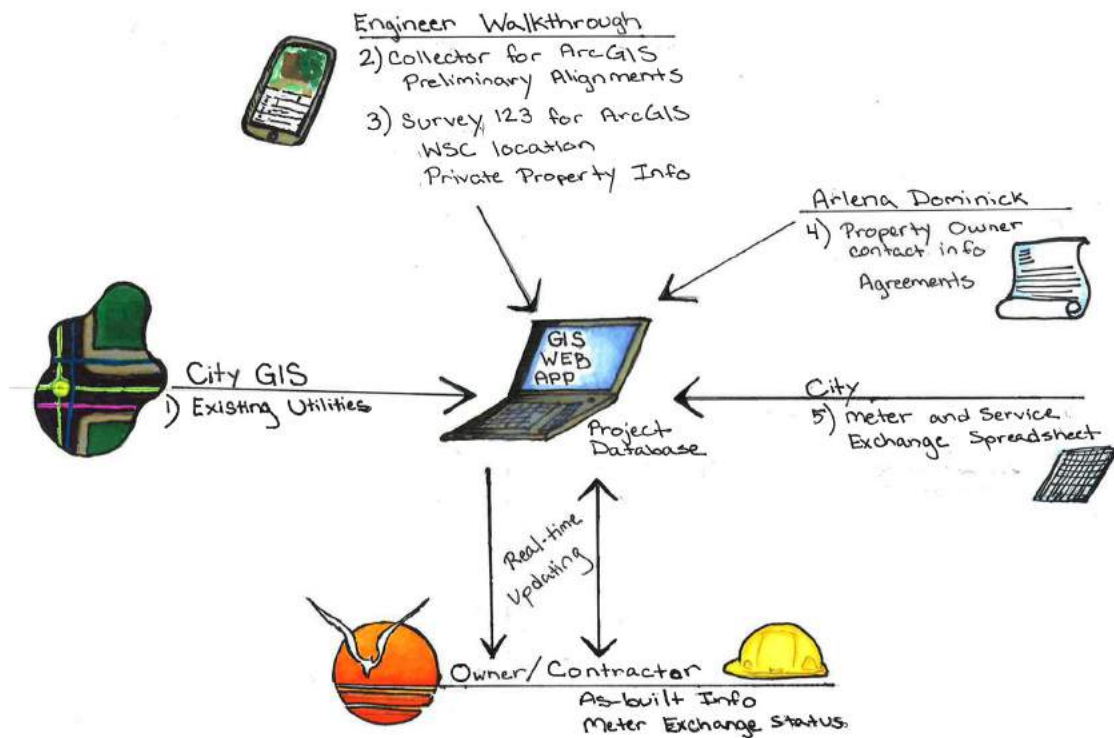
GIS Database

As part of Miami-Dade Water and Sewer Department's Consumer Line Relocation Program, King developed a means of tracking the relocation of 2,730 water services from rear-lot water mains to water mains in the right-of-way using an interactive GIS database. **Use of the tools developed as part of that program will greatly simplify the private service relocation efforts on the City's proposed projects.**

There are two GIS applications that will be used for the preliminary data collection effort, when King personnel walk each property. *Collector for ArcGIS* allows the user to collect, and edit features from any mobile device. Using *Collector*, the engineer can use a tablet or cell phone to draw preliminary alignments directly into GIS (on an aerial), which will already contain the City's existing utility information. This preliminary alignment can then be easily transferred into the AutoCAD design drawings.

The second application, *Survey 123 for ArcGIS*, allows a custom private property form to be filled out for each property, and geo-referenced, on the user's phone or other mobile device. The data and photos are immediately uploaded to the GIS database which will be created specifically for each project.

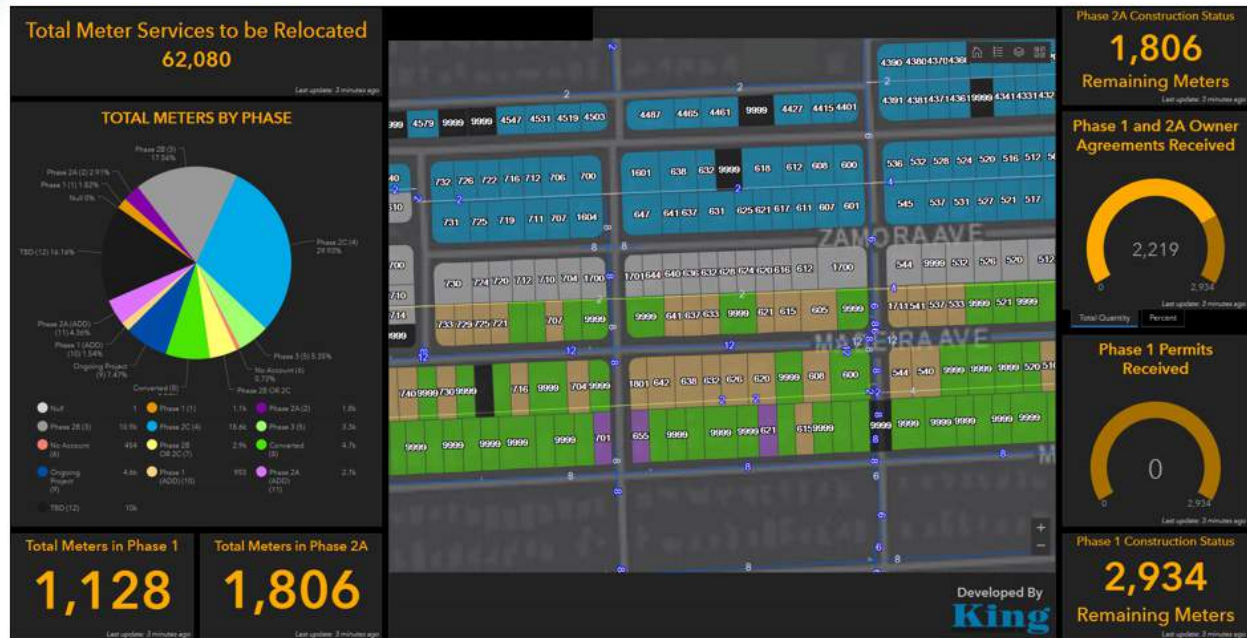
Arlena Dominick will also have access to these applications (as will the City) and can record field data directly into the GIS database, which will then allow King to see comments and changes in real time, this streamlining the design and coordination process.



GIS Workflow

The database is a custom enterprise application, viewable on ArcGIS Online or the local network, which allows anyone with access to view all of the relevant information about a property by clicking on it on a live platform. Therefore, during design, any of the stakeholders could view the GIS web application at any time and see all of the available information on a given property including a property sketch, agreement, owner's contact information, and existing water meter information provided by the City. This greatly aids in the decision-making and documentation of such decisions by providing one database to manage all of the data in an easy to navigate format.

Part of the efficiency of the web-application lies in the custom dashboards that can be created in order to monitor the progress of the private property investigations and service relocations. As shown in the example dashboard image below from the Miami project, running counts of the agreements obtained, meters to be relocated, or any other desired status can be displayed on the main screen. These dashboard graphs and counts would be updated in real time as the changed or imported data.



Upon contract award, the Contractor and licensed plumber will be added to the web application as users. They will then have easy access to all of the private property information in the field and be able to add notes and update meter installation statuses in real time.

GROUND STORAGE TANK, BOOSTER PUMP STATION AND REGIONAL INTERCONNECT PRELIMINARY ENGINEERING

King is well positioned to design this facility and the associated pipelines given our extensive recent experience with booster pump stations and our ongoing working relationship with the Peace River/Manasota Regional Water Supply Authority. As part of our Phase 3B Regional Loop Integrated System project with the Authority, which is ready to enter construction and ties into the Phase 3A transmission main north of Knights Trail Road, we researched available properties and performed preliminary engineering for a ground storage tank and booster pump system proposed to be filled from the Regional System and feed into Sarasota County's water system. Preliminary engineering for the City's facility has already been conducted, but as part of our design King will perform or finalize the following:

- Hydraulic modeling and calculations to determine the required pump capacities;
- Pump selection;
- Chemical feed requirements and sizing;
- Determine pump station ancillary equipment requirements, including piping and valves, metering, variable speed drives and pump controls;
- Prepare floor plan layout of pump station building, including space for utility and standby power distribution, chemical storage and feed facilities, space for operations and maintenance;
- Prepare a site plan that incorporates the first of two (2) 2 MG ground storage tanks (with room for the second), site piping, access, chemical unloading, parking, other City-requested facilities and property setbacks/buffers consistent with development in the area.
- Prepare a layout of the interconnect and metering station, in accordance with City and Authority requirements;
- Determine instrumentation and control requirements both for the booster station and for the interconnect and other automated valving systems;
- Investigate existing utilities along Gene Green Road and Knights Trail Road and determine alignments for the new pipelines.

Results of the preliminary engineering efforts involving analyses and alternatives evaluations for the utility projects, and any additional analyses required for the booster pump station project, will be summarized in a Basis of Design Report, which will become the guideline for subsequent design efforts.

DESIGN

Topographic and aerial surveying of the project area will take place concurrent with the preliminary engineering effort to reduce the overall project schedule. Thirty percent drawings will be developed showing the base survey data and the general alignment/layout of the proposed improvements.

Once the alignment of the new utilities and the layout of the booster pump station are determined, geotechnical testing will be conducted and will be used for horizontal direction drilling calculations and structural foundation design. Subsurface Utility Engineering will also then be conducted at the locations of known or suspected conflicts that cannot be resolved from the survey data.

Design submittals will be made at the standard 30%, 60%, 90% and Bid Document levels, although it is possible to reduce the submittals on the neighborhood utilities projects to 50%, 90% and Bid Documents to shorten the design schedule and reduce the design fees. The City's comments on the submittals will be incorporated into the along with any special project requirements. Maintenance of Traffic plans will be developed to reduce impacts to the community during construction.

At approximately the 90% complete level, permit applications will be submitted to the appropriate agencies and the City will be provided signed and sealed documents required for the SRF loans.

BID SERVICES PHASE

Upon incorporation of the City's comments on the 90% documents, Bid Documents will be delivered to the City for advertisement. We will attend and moderate the pre-bid meeting, respond to contractors' questions through Addenda, attend the bid opening, review the bids for completeness and accuracy and provide a Recommendation of award.

CONSTRUCTION MANAGEMENT PHASE

The best design can become an unsuccessful project if the construction effort is not carefully monitored. **The King team will utilize the same individuals during the construction phase as performed the design.** This maximizes compliance with the design intent and minimizes review time. We will provide construction management and observation services at the level requested by the City and as necessary to certify the project at its completion.

An important part of the construction management phase is to ensure that the contractor complies with the requirements of the State Revolving Fund (SRF) loan requirements. This will include making sure that Shop Drawings include certifications that the materials of construction meet the requirements of the American Iron and Steel Act and that the contractor is in compliance with Davis-Bacon wage requirements. Also, all pay applications need to be submitted with an updated Contractor's Report of Disadvantaged Business Enterprise Participation Form. Typically, the contractor's compliance with the SRF loan requirements need to be carried out by an independent 3rd party, and team member Angie Brewer & Associates is more than experienced with and capable of working with the City's Grant Administrator to provide those services.

Following completion of the project, our in-house operators and engineers will continue to be available to assist the city with operation and maintenance of the improvements.

The Contract Documents will require that the contractor provide all As-Built data in GIS format, for inclusion in the City's GIS system. GIS data requirements will be those currently being used on the Water Main Replacement and Eastgate Phase 1 projects, modified as necessary based on the City's preferences.

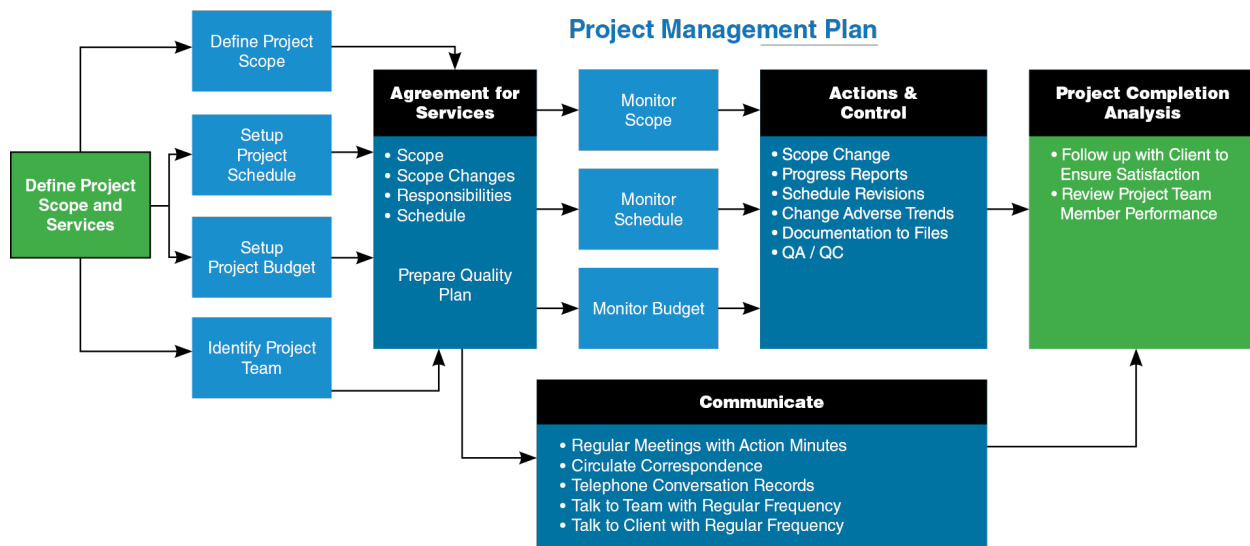
QUALITY & COST CONTROLS

King has a tried and true method for implementing projects that has proven itself successful in maintaining the project schedule and budget and the quality of our work products. The first step in this process is to populate our pre-existing tools to continually monitor our progress.

Project Management Plan – King’s role will be to facilitate a partnership such that the City’s expectations are consistently achieved through a process that produces a project that is completed on time, within or under budget, and with the required level of quality. This means not only satisfying City government, but also your residents. To achieve these criteria, the Project Manager will establish a project specific Project Management Plan (PMP) for the project that will serve as the project reference guide for use by the City, King and all subconsultants. In addition to the final scope, fee and budget, key elements of the PMP include:

- Identification of project goals and success factors (permitting, public outreach, minimization of impacts to residents, and businesses)
- Identification of each team member’s responsibilities
- A project communication plan for maintaining open and constant communications throughout the project
- Definition of deliverables
- Continual planning ahead, monitoring and adapting through King’s QA/QC process

Proper implementation and monitoring of the PMP results in forward thinking so that upcoming milestones are anticipated and potential problems are addressed BEFORE they exist.



Weekly and Monthly Project Review Meetings

At a fixed time each week, internal meetings will be held by King team members to discuss pertinent developments, deadlines, and technical or administrative concerns. These meetings will include subconsultants at critical project stages and the City, if necessary or as indicated in the Communications Plan.

King will also hold monthly review meetings with the City’s Project Manager and staff to review the project’s status, upcoming efforts and potential items of concern. Project status and prior monthly meeting minutes and updated schedule tracking will be provided at the monthly meeting and with monthly invoicing. In



addition to our attendance at the weekly and monthly meetings, King's project managers and appropriate staff will be present for all project decision meetings as dictated by the Project Contract.

Project Coordination and Communication

King's coordination and information exchange efforts begin immediately upon being notified of award of the project. After the Scope of Services has been defined and approved and the Project assigned, a Kick-off meeting will be held between the Project Team, the City's Project Manager, and appropriate City Staff and, if required, subconsultants.

At this meeting, a Project directory of the Project Team, including subconsultants and the City's assigned personnel, will be developed. The Contact list will then be distributed to all team members and the City's Project Manager and appropriate City Staff. Email addresses will be requested and listed to allow for efficient distribution of correspondence.



We return phone calls and respond to emails within 4 hours and have staff availability to meet with our Clients within 24 hours of a request.

Quality Control

As part of our PMP, King will implement our Quality Control Program for the project. The primary goals of our Quality Control Program are to consistently achieve the high standards of technical excellence demanded by the City, reduce overall construction costs, and best meet the City's needs relative to the project. These goals can be attained through implementation of a consistent quality control program for each aspect of the project. Quality control includes not just review of work products, but also establishment of specific methods and procedures for executing the work consistent with proven techniques and corporate policy.

The Project Manager will establish a Quality Control Plan that will identify all Quality Control elements, the team member responsible for the element, and target dates. Once a QC element is completed, the actual completion date will be entered into the Quality Control Plan. Typical elements of a Quality Control Plan are listed below.

- Peer review of the project throughout design;
- Review of calculations, drawings, specifications and permitting requirements by a senior level person not directly involved with the project;
- Review of Property Owner Agreements and sketches to confirm information shown on the drawings;
- Operability / Maintainability review by King's licensed water and wastewater operators;
- A Constructability review by a King survey manager and, if necessary due to anticipated difficulties, an outside contractor;
- A Construction Cost Estimate review; and
- Review of all deliverables by the Principle-in-Charge, Quality Assurance / Quality Control Officer and the Project Manager.

These QA/QC reviews involve not only constructability and quality reviews, but also include that QA/QC checklists be filled in by the reviewer. The QA/QC checklists include standard items that are sometimes over looked (i.e., do the match lines from sheet to sheet match? Are detail callouts correct?) plus confirming that the design is in accordance with the Owner's standards and that previous review comments are addressed. In this way, we assure that all applicable standards and review comments have been addressed.

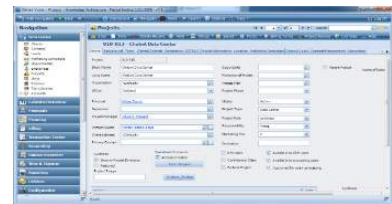
There are many goals of the Quality Control Plan, one of which is to certainly never provide the City with an undesirable or unacceptable work product. To avoid undesirable design elements, we will:

- Review work products and specifications with respect to City design standards;

- Confirm changes in the City's preferences for materials of construction and materials manufacturers and models;
- Maintain constant communication with the City's Project Manager;
- Review pipeline alignments and profiles with the City prior to proceeding with the design;
- Bring unexpected complications with the project to the City Project Manager's attention to discuss preferences for solution (for example, an unexpected need to increase depth or add horizontal offsets to avoid conflicts).

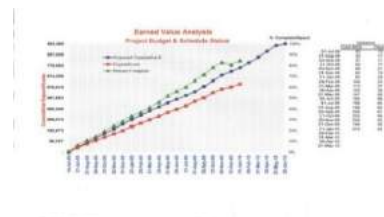
Tools to Control Design Expenditures and Schedule

Project Management Software - Our in-house computer based Deltek Vision Project Management software provides real-time project data and produces reports that can be formatted as necessary to evaluate the project budget. Hours and expenses can be sorted to produce a budgeted/actual cost accounting for a specific task/phase or for an entire project at any point in time.



Deltek Project Management

On a monthly basis, **Earned Value Analysis** will also be used to monitor the schedule and budget for each project. Actual expenditures and actual percent complete (Earned Value) are compared with a projection of how the project fees should be expended over time in order to determine if the project is ahead or behind schedule and below or under budget. This analysis allows us to see if a project's budget is trending toward overrunning and allows us to take corrective actions early, before the budget is exceeded. The only time we will ever approach the City for additional fees is if we are required to do additional work that is not included in our scope of services. Otherwise, we signed an Agreement with the City to complete our scope for a certain fee and we are bound to do so without compromising the quality of the work produced. In the instance where a task is determined to not be required during the course of the work, we will not bill for that task.



Earned Value Analysis

SAVING OUR CLIENTS MONEY

King constantly strives to save our clients money and complete their projects on schedule without compromising quality standards or performance. Recent relevant examples of how we have saved clients money include:



**Idlewild Sanitary
Sewer Expansion**

For the City of Clearwater's Idlewild "The Mall" Sanitary Sewer System project, King performed design, permitting and construction administration services for 20,000 LF of gravity sewer main. By implementing innovating approaches, the project was completed \$1,006,096 million under budget. These same services were performed for the C.R. 193 project which was completed \$750,000 under budget.



US 301 FM

For Hillsborough City's US 301 Force Main, King recommended that then County obtain easements on private property in order to allow 5,700 LF of a 30-inch force main to be removed from the FDOT right-of-way to avoid major conflicts and costly FDOT requirements. The County purchased the easements and the net result was a savings of \$2 million and acceleration of the project schedule by 2 months.



**Peace River
42-inch TM**

Peace River Manasota Regional Water Authority Interconnect Phase 2 – This 7 mile 42-inch transmission main for the Authority's Regional Integrated Loop System Phase 2 Interconnect Project was completed 6% under the \$10.9 million budget and on time. One key element that resulted in significant cost savings was the inclusion of provisions to allow the Contractor to recirculate flushing and disinfection water back into the Authority's Reservoir No. 1. This eliminated the contractor's costs for a flushing water dissipation and disposal system and saved the Authority roughly 60 - 80 million gallons of raw water.



6. Required Forms, Certificate of Insurance, Certifications

**SEALED REQUEST FOR QUALIFICATIONS
CITY OF VENICE, FLORIDA**

QUALIFICATIONS STATEMENT

The undersigned certifies under oath the truth and correctness of all statements and all answers to questions made hereinafter:

SUBMITTED TO:

CITY OF VENICE
Procurement- Finance Department
401 W. Venice Avenue Room # 204
Venice, Florida 34285

CHECK ONE:

- ☒ Corporation
☐ Partnership
☐ Individual
☐ Joint Venture
☐ Other

SUBMITTED BY:

NAME: King Engineering Associates, Inc.
ADDRESS: 2930 University Parkway, Sarasota, FL 34243
PRINCIPLE OFFICE: 4921 Memorial Highway, Suite 300, Tampa, FL 33634

1. State the true, exact, correct and complete legal name of the partnership, corporation, trade or fictitious name under which you do business and the address of the place of business.

The correct name of the Proposer is:

King Engineering Associates, Inc.

The address of the principal place of business is:

4921 Memorial Highway, Suite 300, Tampa, FL 33634

2. If the Proposer is a corporation, answer the following:

- a. Date of Incorporation: December 19, 1977
- b. State of Incorporation: Florida
- c. President's Name: Ernesto Aguilar, PE
- d. Vice President's Name: Christopher F. Kuzler, PE - Sr. VP; Michael E. Ross, PE - VP; Ryan Thorpe - Sr. VP; Christopher Lee - Sr. VP;
- e. Secretary's Name: Michael E. Ross, PE
- f. Treasurer's Name: Jeffrey R. Mistarz
- g. Name and address of Resident Agent: 4921 Memorial Highway, Suite 300, Tampa, FL 33634

3. If Proposer is an individual or partnership, answer the following:

a. Date of Organization: N/A

b. Name, address and ownership units of all partners:

N/A

c. State whether general or limited partnership: N/A

4. If Proposer is other than an individual, corporation, partnership, describe the organization and give the name and address of principals:

5. If Proposer is operating under fictitious name, submit evidence of compliance with the Florida Fictitious Name Statute.

6. How many years has your organization been in business under its present business name?
38 years

a. Under what other former names has your organization operated?

November 29, 1977 - K.L. King & Associates, Inc.

January 29, 1979 - King & Associates, Inc.

June 27, 1979 - King, Doughty & Associates, Inc.

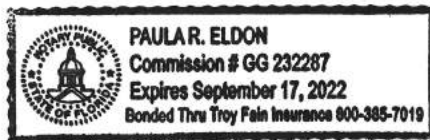
March 24, 1980 King Engineering Associates, Inc.

ACKNOWLEDGEMENT

State of Florida }
County of Hillsborough } SS.

On this the 15th day of November, 2018, before me, the undersigned Notary Public of the State of Florida, personally appeared Christopher F. Kuzler and (Names of individual(s) who appeared before Notary) whose name(s) in/are Subscribed to within instrument, and he/she/they acknowledge that he/she/they executed it.

NOTARY PUBLIC
SEAL OF OFFICE:



Paula R. Eldon
NOTARY PUBLIC, STATE OF FLORIDA

Paula R. Eldon

(Name of Notary Public: Print, stamp, or type as commissioned)

☒ Personally known to me, or ☐ Produced Identification: _____ ☐ DID take an oath, or ☒ DID NOT take an oath

PROJECT TEAM

TEAM NAME: King Engineering Associates, Inc. - Project 1: Bay Indies Relocations, Phases 1 and 2

FEDERAL ID No.: 59-1782900

Prime Role	Name & City of Residence of Individual Assigned to the Project	No. of Years Experience	Education, Degree(s)	Florida Active Registration Nos.
Principle-in-Charge & Client Manager	Christopher F. Kuzler, PE Oldsmar, FL	33	MBA; BS, Mechanical Eng.	PE 45532
Project Manager	Loc Truong, PE Riverview, FL	17	BS, Chemical Eng.	PE 65709
Project Architect (or Engineer)	Benjamin Turnage, PE Land O'Lakes, FL	17	BS, Physics; BS Biological Eng.	PE 64055
Project Construction Administrator				
Project Engineer Utilities & Lift Stations	Matthew Davis, PE Tampa, FL	6	BS, Mechanical Eng.	PE 83410
Project Engineer Utilities & Lift Stations	David Weber, PE St. Petersburg, FL	44	MS, Env. Eng. BS Civil Eng.	PE 29323
Sub-consultant Role	Company Name and Address of Office Handling this Project		Projected % of Overall Work on the Entire Project	Name of Individual Assigned to Project
Architecture	N/A			
Mechanical Engineering	N/A			
Electrical Engineering	Carastro & Associates, Inc., 2609 W. De Leon St. Tampa, FL 33609		3%	Paul Carastro, PE
Structural Engineering	N/A			
Civil Engineering	N/A			
Landscape Architecture	N/A			
Geotechnical Engineer	Driggers Engineering Services, Inc. 6185 Danner Drive, Sarasota, FL 34240		5%	F. Jaime Driggers, PE
Other Key Member SUE	Omni Communications, LLC 8509 Benjamin Road, Suite E, Tampa, FL 33634		3%	Shannon Wright
Other Key Member Public Outreach	DJ Public Relations Inc. 3030 Starkey Blvd., Suite 208, Trinity, FL 34655		7%	Diane Jones, MPA, APR
Other Key Member SRF/Grant Funding	Angie Brewer and Associates, LLC 9104 58th Dr. E, Bradenton, FL 34202		4%	Mark Brewer

PROJECT TEAM

TEAM NAME: King Engineering Associates, Inc. - Project 1: Bay Indies Relocations , Ph 1 & 2 - CONTINUED

FEDERAL ID No.: 59-1782900

Prime Role	Name & City of Residence of Individual Assigned to the Project	No. of Years Experience	Education, Degree(s)	Florida Active Registration Nos.
Construction/Field Rep	Orlando Serrano, Jr. Tampa, FL	31	AS, Engineering Technology	
Project Engineer Private Property Agreement Coordination	Patience Anastasio, PE Bradenton, FL	11	BS, Civil Eng. AA, Chemistry	PE 75402
Project Engineer Utilities & Lift Stations	Kaitlin Dulaney, EI Clearwater, FL	2	BS, Civil Engineering	
Project Engineer Utilities & Lift Stations	Mariana Evora, EI Miami, FL	4		
Project Engineer Utilities & Lift Stations	Cristina Lacorazza Tampa, FL	8	BS, Env. Engineering	
Project Engineer-Civil/ Stormwater	O. Denise Greer, PE, LEED Parrish, FL	30	BS, Civil Engineering	PE 47679
Project Engineer Civil/MOT	Ricardo Maristany, PE Davie, FL	10	BS, Civil Engineering	PE 76068
Other Key Member Survey Manager	David Greer, PSM Parrish, FL	45		PSM LS 5189
Other Key Member Project Surveyor	Greg Baksis, PSM Largo, FL	15	BS, Geomatics	PSM 6956
Other Key Member GIS Specialist	Christopher Hutton Riverview, FL	11	AS, Computer Drafting & Design	
Other Key Member Ecologist	Peter Bottone, PWS, CERP Tampa, FL	36	BA, Biology	PWS 2919; CERP 0199
Sub-consultant Role	Company Name and Address of Office Handling this Project		Projected % of Overall Work on the Entire Project	Name of Individual Assigned to Project
Other Key Member Private Property Agreements	Arlena Dominick, 825 S. Osprey Ave., #305 Sarasota, FL 34236		5%	Arlena Dominick
Other Key Member QA-QC	Sharek Solutions, Inc. 4080 Middlesex Place Sarasota, FL 34241		7.5%	Chris Sharek, PE

PROJECT TEAM

TEAM NAME: King Engineering Associates, Inc. Project 3: Water System Improvements Phase 1

FEDERAL ID No.: 59-1782900

Prime Role	Name & City of Residence of Individual Assigned to the Project	No. of Years Experience	Education, Degree(s)	Florida Active Registration Nos.
Principle-in-Charge & Client Manager	Christopher F. Kuzler, PE Oldsmar, FL	33	MBA; BS, Mechanical Eng.	PE 45532
Project Manager	Thomas Traina, PE Odessa, FL	40	BS, Civil Eng.	PE 42871
Project Architect (or Engineer) - Booster St.	Loc Truong, PE Riverview, FL	17	BS, Chemical Eng.	PE 65709
Project Construction Administrator				
Project Engineer Booster St./Interconnect	Lizeth Mora, EI Tampa, FL	4	MS, Env. Eng. BS, Env. Eng.	
Project Engineer Booster St./Interconnect	David Weber, PE St. Petersburg, FL	44	MS, Env. Eng. BS, Civil Eng.	PE 29323
Sub-consultant Role	Company Name and Address of Office Handling this Project		Projected % of Overall Work on the Entire Project	Name of Individual Assigned to Project
Architecture	N/A			
Mechanical Engineering	N/A			
Electrical Engineering	Carastro & Associates, Inc. 2609 W. De Leon Street Tampa, FL 33609		6%	Paul Carastro, PE
Structural Engineering	Wekiva Engineering, LLC, 7111 N. Orange Ave., Suite A, Winter Park, FL 32789		6%	John Sobczak, PE
Civil Engineering	N/A			
Landscape Architecture	N/A			
Geotechnical Engineer	Driggers Engineering Services, Inc. 6185 Danner Drive, Sarasota, FL 34240		2%	F. Jaime Driggers, PE
Other Key Member SUE	Omni Communications, LLC 8509 Benjamin Road, Suite E, Tampa, FL 33634		2%	Shannon Wright
Other Key Member Public Outreach	DJ Public Relations Inc. 3030 Starkey Blvd., Suite 208, Trinity, FL 34655		5%	Diane Jones, MPA, APR
Other Key Member SRF/Grant Funding	Angie Brewer and Associates, LLC 9104 58th Dr. E, Bradenton, FL 34202		5%	Mark Brewer

PROJECT TEAM

TEAM NAME: King Engineering Associates, Inc. – Project 3: Water System Improvements Phase 1 CONTINUED

FEDERAL ID No.: 59-1782900

Prime Role	Name & City of Residence of Individual Assigned to the Project	No. of Years Experience	Education, Degree(s)	Florida Active Registration Nos.
Other Key Member Construction/Field Rep	Brett Meyer Dunedin, FL	30	BS, Mechanical Engineering	
Project Engineer Booster Station/Interconnect	Sharmeela Khemlani, EI Tampa, FL	5	BS, Civil Engineering	
Project Engineer-Civil/ Stormwater	O. Denise Greer, PE, LEED Parrish, FL	30	BS, Civil Engineering	PE 47679
Project Engineer Civil/MOT	Ricardo Maristany, PE Davie, FL	10	BS, Civil Engineering	PE 76068
Other Key Member Survey Manager	David Greer, PSM Parrish, FL	45		PSM LS 5189
Other Key Member Project Surveyor	Greg Baksis, PSM Largo, FL	15	BS, Geomatics	PSM 6956
Other Key Member Rezoning	Cynthia Spidell, AICP Odessa, FL	13	MBA BA, Economics BA, German Language & Literature	
Other Key Member Ecologist	Peter Bottone, PWS, CERP Tampa, FL	36	BA, Biology	PWS 2919; CERP 0199
Sub-consultant Role	Company Name and Address of Office Handling this Project		Projected % of Overall Work on the Entire Project	Name of Individual Assigned to Project
QA-QC	Sharek Solutions, Inc. 4080 Middlesex Place Sarasota, FL 34241		5%	Chris Sharek, PE

PROJECT TEAM

TEAM NAME: King Engineering Associates, Inc. Project 4: Eastgate Utilities Relocation, Ph 2 & 3

FEDERAL ID No.: 59-1782900

Prime Role	Name & City of Residence of Individual Assigned to the Project	No. of Years Experience	Education, Degree(s)	Florida Active Registration Nos.
Principle-in-Charge & Client Manager	Christopher F. Kuzler, PE Oldsmar, FL	33	MBA; BS, Mechanical Eng.	PE 45532
Project Manager	Benjamin Turnage, PE Land O'Lakes, FL	17	BS, Physics; BS Biological Eng.	PE 64055
Project Architect (or Engineer) - Utilities	Loc Truong, PE Riverview, FL	17	BS, Chemical Eng.	PE 65709
Project Construction Administrator				
Project Engineer Utilities	Matthew Davis, PE Tampa, FL	6	BS, Mechanical Eng.	PE 83410
Project Engineer Utilities	Kaitlin Dulaney, EI Clearwater, FL	2	BS Civil Eng.	
Sub-consultant Role	Company Name and Address of Office Handling this Project		Projected % of Overall Work on the Entire Project	Name of Individual Assigned to Project
Architecture	N/A			
Mechanical Engineering	N/A			
Electrical Engineering	N/A			
Structural Engineering	N/A			
Civil Engineering	N/A			
Landscape Architecture	N/A			
Geotechnical Engineer	Driggers Engineering Services, Inc. 6185 Danner Drive, Sarasota, FL 34240		5%	F. Jaime Driggers, PE
Other Key Member SUE	Omni Communications, LLC 8509 Benjamin Road, Suite E, Tampa, FL 33634		3%	Shannon Wright
Other Key Member Public Outreach	DJ Public Relations Inc. 3030 Starkey Blvd., Suite 208, Trinity, FL 34655		7%	Diane Jones, MPA, APR
Other Key Member SRF/Grant Funding	Angie Brewer and Associates, LLC 9104 58th Dr. E, Bradenton, FL 34202		4%	Mark Brewer

PROJECT TEAM

TEAM NAME: King Engineering Associates, Inc. – Project 4: Eastgate Utilities Relocation, Ph 2 & 3 CONTINUED

FEDERAL ID No.: 59-1782900

Prime Role	Name & City of Residence of Individual Assigned to the Project	No. of Years Experience	Education, Degree(s)	Florida Active Registration Nos.
Other Key Member Construction/Field Rep	Doug Jennings St. Petersburg, FL	37	BS, Contracting & Construction Management	
Project Engineer Private Property Agreement Coordination	Patience Anastasio, PE Bradenton, FL	11	BS, Civil Eng. AA, Chemistry	PE 75402
Project Engineer-Civil/ Stormwater	O. Denise Greer, PE, LEED Parrish, FL	30	BS, Civil Engineering	PE 47679
Project Engineer Civil/MOT	Ricardo Maristany, PE Davie, FL	10	BS, Civil Engineering	PE 76068
Other Key Member Survey Manager	David Greer, PSM Parrish, FL	45		PSM LS 5189
Other Key Member Project Surveyor	Greg Baksis, PSM Largo, FL	15	BS, Geomatics	PSM 6956
Other Key Member GIS Specialist	Christopher Hutton Riverview, FL	11	AS, Computer Drafting & Design	
Other Key Member Ecologist	Peter Bottone, PWS, CERP Tampa, FL	36	BA, Biology	PWS 2919; CERP 0199
Sub-consultant Role	Company Name and Address of Office Handling this Project		Projected % of Overall Work on the Entire Project	Name of Individual Assigned to Project
Other Key Member Private Property Agreements	Arlena Dominick, 825 S. Osprey Ave., #305 Sarasota, FL 34236		15%	Arlena Dominick
Other Key Member QA-QC	Sharek Solutions, Inc. 4080 Middlesex Place Sarasota, FL 34241		5%	Chris Sharek, PE

PROJECT TEAM

TEAM NAME: King Engineering Associates, Inc. - Project 5: Water Main Replacement Ph. 7 & 8

FEDERAL ID No.: 59-1782900

Prime Role	Name & City of Residence of Individual Assigned to the Project	No. of Years Experience	Education, Degree(s)	Florida Active Registration Nos.
Principle-in-Charge & Client Manager	Christopher F. Kuzler, PE Oldsmar, FL	33	MBA; BS, Mechanical Eng.	PE 45532
Project Manager	Christopher F. Kuzler, PE Oldsmar, FL	33	MBA; BS, Mechanical Eng.	PE 45532
Project Architect (or Engineer) - Utilities	Benjamin Turnage, PE Land O'Lakes, FL	17	BS, Physics BS Biological Eng.	PE 64055
Project Construction Administrator				
Project Engineer Utilities	Matthew Davis, PE Tampa, FL	6	BS, Mechanical Eng.	PE 83410
Project Engineer Utilities	Kaitlin Dulaney, EI Clearwater, FL	2	BS Civil Eng.	
Sub-consultant Role	Company Name and Address of Office Handling this Project		Projected % of Overall Work on the Entire Project	Name of Individual Assigned to Project
Architecture	N/A			
Mechanical Engineering	N/A			
Electrical Engineering	N/A			
Structural Engineering	N/A			
Civil Engineering	N/A			
Landscape Architecture	N/A			
Geotechnical Engineer	Driggers Engineering Services, Inc. 6185 Danner Drive, Sarasota, FL 34240		3%	F. Jaime Driggers, PE
Other Key Member SUE	Omni Communications, LLC 8509 Benjamin Road, Suite E, Tampa, FL 33634		3%	Shannon Wright
Other Key Member Public Outreach	DJ Public Relations Inc. 3030 Starkey Blvd., Suite 208, Trinity, FL 34655		7%	Diane Jones, MPA, APR
Other Key Member SRF/Grant Funding	Angie Brewer and Associates, LLC 9104 58th Dr. E, Bradenton, FL 34202		4%	Mark Brewer

PROJECT TEAM

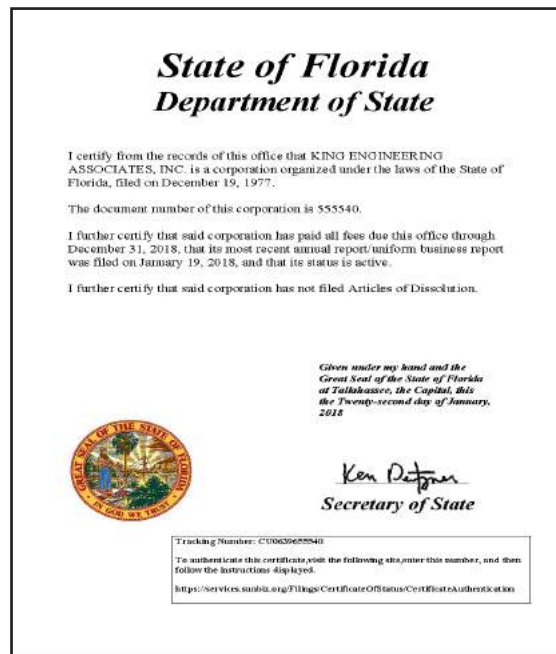
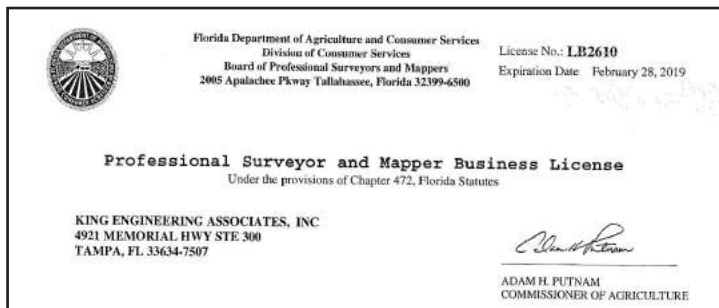
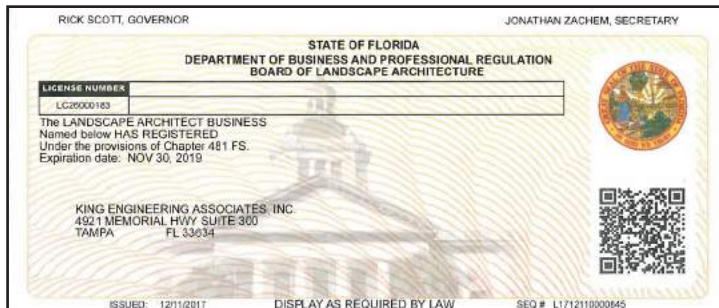
TEAM NAME: King Engineering Associates, Inc. – Project 5: Water Main Replacement Ph. 7 & 8 CONTINUED

FEDERAL ID No.: 59-1782900

Prime Role	Name & City of Residence of Individual Assigned to the Project	No. of Years Experience	Education, Degree(s)	Florida Active Registration Nos.
Other Key Member Construction/Field Rep	Brett Meyer Dunedin, FL	30	BS, Mechanical Engineering	
Project Engineer Private Property Agreement Coordination	Patience Anastasio, PE Bradenton, FL	11	BS, Civil Eng. AA, Chemistry	PE 75402
Project Engineer-Civil/Stormwater	O. Denise Greer, PE, LEED Parrish, FL	30	BS, Civil Engineering	PE 47679
Project Engineer Utilities	Lisel Suarez Miami, FL	1.5	BS, Civil Engineering	
Project Engineer Civil/MOT	Ricardo Maristany, PE Davie, FL	10	BS, Civil Engineering	PE 76068
Other Key Member Survey Manager	David Greer, PSM Parrish, FL	45		PSM LS 5189
Other Key Member Project Surveyor	Greg Baksis, PSM Largo, FL	15	BS, Geomatics	PSM 6956
Other Key Member GIS Specialist	Christopher Hutton Riverview, FL	11	AS, Computer Drafting & Design	
Other Key Member Ecologist	Peter Bottone, PWS, CERP Tampa, FL	36	BA, Biology	PWS 2919; CERP 0199
Sub-consultant Role	Company Name and Address of Office Handling this Project		Projected % of Overall Work on the Entire Project	Name of Individual Assigned to Project
Other Key Member Private Property Agreements	Arlena Dominick, 825 S. Osprey Ave., #305 Sarasota, FL 34236		15%	Arlena Dominick
Other Key Member QA-QC	Sharek Solutions, Inc. 4080 Middlesex Place Sarasota, FL 34241		5%	Chris Sharek, PE

Licenses

► King Engineering Associates, Inc. Firm Licenses




► King Personnel Licenses

State of Florida
Board of Professional Engineers
Attests that
Christopher Frank Kuzler, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201904845 R

P.E. Lic. No: **45532**



State of Florida
Board of Professional Engineers
Attests that
Benjamin Carl Turnage, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201917231 R


P.E. Lic. No: **64055**



State of Florida
Board of Professional Engineers
Attests that
Loc P. Truong, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201908208 R


P.E. Lic. No: **65709**



State of Florida
Board of Professional Engineers
Attests that
Ooluva Denise Greer, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201904909 R


P.E. Lic. No: **47679**



State of Florida
Board of Professional Engineers
Attests that
David Anthony Weber, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201913033 R


P.E. Lic. No: **29323**



State of Florida
Board of Professional Engineers
Attests that
Patience S. Anastasio, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201917969 R


P.E. Lic. No: **75402**



State of Florida
Board of Professional Engineers
Attests that
Matthew William Davis, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201934615 I

P.E. Lic. No: **83410**



Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No.: **LS6956**
Expiration Date: February 28, 2019

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes

GREG BAKSIS
13617 SAN RAFAEL DR
LARGO, FL 33774-4640

Adam H. Putnam
ADAM H. PUTNAM
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No.: **LS5189**
Expiration Date: February 28, 2019

Professional Surveyor and Mapper License
Under the provisions of Chapter 472, Florida Statutes


JAMES DAVID GREER
16702 GOLF COURSE RD
PARRISH, FL 34219

Adam H. Putnam

State of Florida
Board of Professional Engineers
Attests that
Ricardo Agustin Maristany, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201912391 R


P.E. Lic. No: **76068**



State of Florida
Board of Professional Engineers
Attests that
Thomas A. Traina, P.E.

Is licensed as a Professional Engineer under Chapter 471, Florida Statutes
Expiration: 2/28/2019
Audit No: 228201909365 R

P.E. Lic. No: **42871**



Society of Wetland Scientists
Professional Certification Program, Inc.
grants the designation
Professional Wetland Scientist
For:
Peter J. Bottono

In recognition of all the professional requirements approved by the Society of Wetland Scientists Certification Program, Inc. and verified by the Society's Certification Review Panel on 2/23/2018. Professional Wetland Scientist number 2919. Due to recertify by 2/23/2023.

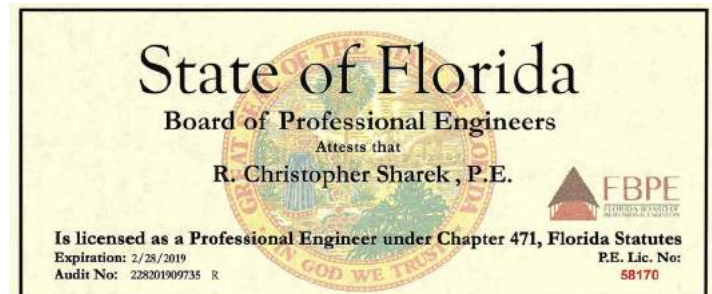
James E. Petty, Ph.D., PWS
James E. Petty, Ph.D., PWS
President

Robert D. Shuman, Ph.D., PWS
Robert D. Shuman, Ph.D., PWS
Executive/Board Chair

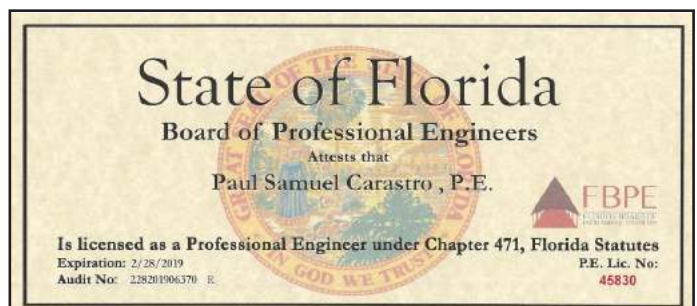
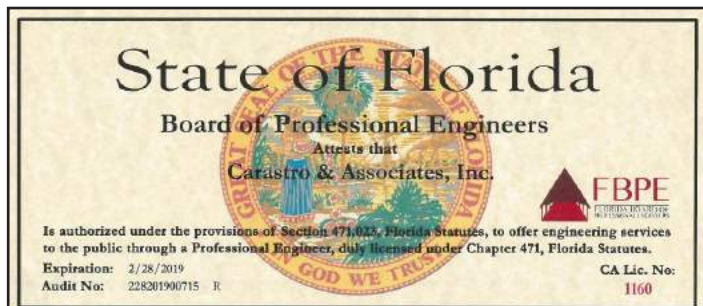


Subconsultant Licenses

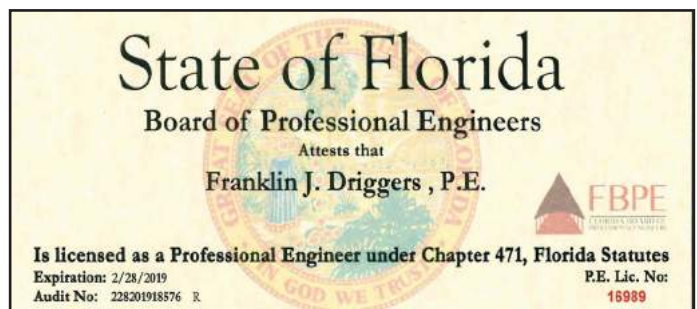
► Sharek Solutions, Inc.



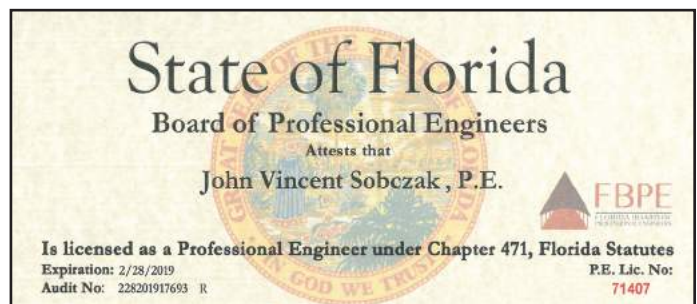
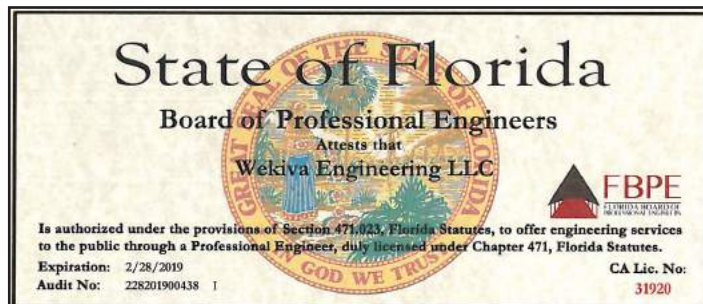
► Carastro & Associates, Inc.



► Driggers Engineering Services, Inc.



► Wekiva Engineering, LLC

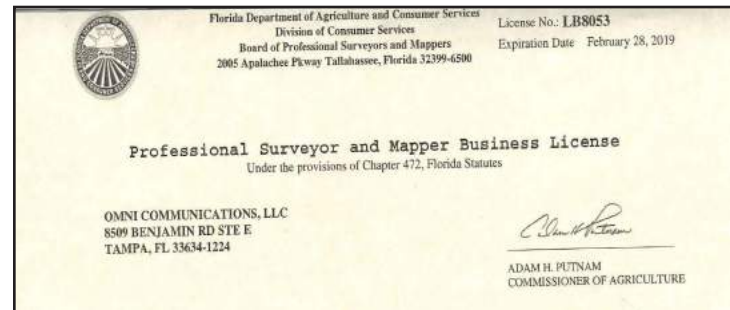


Subconsultant Licenses Cont.

► Dj Public Relations, Inc.



► Omni Communications, Inc.



► Angie Brewer and Associates, LLC



PUBLIC ENTITY CRIME INFORMATION

A person or affiliate who has been placed on the State of Florida's convicted vendor list following a conviction for a public entity crime may not submit an RFQ proposal on a contract to provide any goods or services to a public entity, may not submit a response on a contract with a public entity for services in 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, Sub-Contractor, or Contractor 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 2876.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.**

I, Christopher F. Kuzler, PE, being an authorized representative of the firm of King Engineering Associates, Inc., located at City: Tampa
State: Florida Zip: 33634, have read and understand the contents of the Public Entity Crime Information and of this formal RFQ package, hereby submit our proposal accordingly.

Signature: 
Phone: 813-880-8881
Federal ID#: 59-1782900

Date: November 19, 2018
Fax: 813-880-8882

DRUG FREE WORKPLACE

Preference shall be given to business with drug-free workplace programs. Whenever two or more RFQs, which are equal with qualifications and service, are received by the City for the procurement of commodities or contractual services, an RFQ received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. In order to have a drug-free workplace program, your firm shall:

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 action 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 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 an RFQ, 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 RFQ, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea 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 an employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

Concur X
November 19, 2018
Date

Variance

Contractor's Signature

INDEMNIFICATION/HOLD HARMLESS

The elected firm shall indemnify and hold harmless the City and its officers and employees from liabilities, damages, losses, and costs, including, but not limited to, reasonable attorneys' fees, to the extent caused by the negligence, recklessness, or intentionally wrongful conduct of the elected firm and other persons employed or utilized by the elected firm in the performance of the contract.

I, Christopher F. Kuzler, being an authorized representative of the firm of
King Engineering Associates, Inc. located at City Tampa, State
Florida, Zip Code 33634 Phone: 813-880-8881 Fax:
813-880-8882. Having read and understood the contents above, hereby submit
accordingly as of this Date, November 19,, 2018.

Christopher F. Kuzler, PE

Please Print Name


Signature

This signed document shall remain in effect for a period of one (1) year from the date of signature or for the contract period, whichever is longer.

**CERTIFICATION REGARDING DEBARMENTS, SUSPENSION, INELIGIBILITY AND
VOLUNTARY EXCLUSION-LOWER TIER FEDERALLY FUNDED TRANSACTIONS
STATE OF FLORIDA GRANT ASSISTANCE PURSUANT TO
AMERICAN RECOVERY AND REINVESTMENT ACT UNITED STATES
DEPARTMENT OF ENERGY AWARDS**

1. The undersigned hereby certifies that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
2. The undersigned also certifies that it and its principals:
 - a. Have not within a three-year period preceding this certification been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State anti-trust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
 - b. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 2.(a) of this Certification; and (b) Have not within a three-year period preceding this certification had one or more public transactions (Federal, State or Local) terminated for cause or default.
3. Where the undersigned is unable to certify to any of the statements in this certification, an explanation shall be attached to this certification.

Dated this 19 day of November, 2018.

By: 
Authorized Signature

Managing Principal

Typed Name of Title

King Engineering Associates, Inc.

Recipient's Firm Name

4921 Memorial Highway, Suite 300

Street Address

Tampa, FL 33634

City/State/Zip Code

CONFLICT/NON CONFLICT OF INTEREST AND LITIGATION STATEMENT

CHECK ONE

☒ To the best of our knowledge, the undersigned firm has no potential conflicts of interest due to any other clients, contracts, or property interest for this project.

OR

☐ The undersigned firm, by attachment to this form, submits information which may be a potential conflict of interest due to other clients, contracts, or property interest for this project.

LITIGATION STATEMENT

IN FLORIDA ONLY, JUDGMENTS AGAINST THE FIRM, AND SUITS AGAINST CITY OF VENICE. INCLUDE ACTIONS AGAINST THE FIRM BY OR AGAINST ANY LOCAL, STATE, OR FEDERAL REGULATORY AGENCY.


CHECK ONE

☒ The undersigned firm has had no litigation adjudicated against the firm on any projects in the last five (5) years and has filed no litigation against City of Venice in the last five (5) years.

OR

☐ The undersigned firm, BY ATTACHMENT TO THIS FORM, submits a summary and disposition of individual cases of litigation in Florida adjudicated against the firm during the past five (5) years; all legal actions against City of Venice during the past five (5) years; and actions by or against any Federal, State and local agency during the past five (5) years.

Company Name: King Engineering Associates, Inc.

Authorized Signature: 

Name (print or type): Christopher F. Kuzler, PE

Title: Managing Principal

Failure to check the appropriate blocks above may result in disqualification of your proposal. Failure to provide documentation of a possible conflict of interest, or a summary of past litigation, may result in disqualification of your proposal. Should additional information regarding the above items come to the attention of City of Venice after award, the awarded contract shall be subject to immediate termination.

NON-COLLUSION AFFIDAVITState of FloridaCounty of Hillsborough

} SS.

Christopher F. Kuzler

being first duly sworn, deposes and says that:

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

Signed, sealed and delivered
in the presence of:Mary G. Kuzler[Signature]

By:

[Signature]

Christopher F. Kuzler, PE

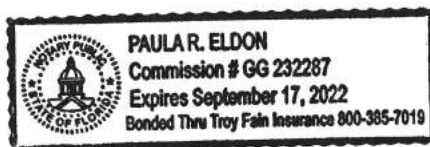
(Printed Name)

Managing Principal

(Title)

ACKNOWLEDGEMENTState of FloridaCounty of Hillsborough

On this the 15th day of November, 2018, before me, the undersigned Notary Public of the State of Florida, personally appeared Christopher F. Kuzler and (Names of individual(s) who appeared before Notary) whose name(s) in/are Subscribed to within instrument, and he/she/they acknowledge that he/she/they executed it.

NOTARY PUBLIC
SEAL OF OFFICE:Paula R. Eldon

NOTARY PUBLIC, STATE OF FLORIDA

PAULA R. Eldon

(Name of Notary Public: Print, stamp, or type as commissioned)

☒ Personally known to me, or ☐ Produced Identification: _____ ☐ DID take an oath, or ☒ DID NOT take an oath



KINGENG-01

NGONZALEZ

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

10/30/2018

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).

PRODUCER Ames & Gough 8300 Greensboro Drive Suite 980 McLean, VA 22102	CONTACT NAME: PHONE (A/C, No, Ext): (703) 827-2277 FAX (A/C, No): (703) 827-2279 E-MAIL ADDRESS: admin@amesgough.com
	INSURER(S) AFFORDING COVERAGE INSURER A: Continental Casualty Company (CNA) A, XV INSURER B: National Fire Insurance Company of Hartford A(XV) INSURER C: Continental Insurance Company A(XV) INSURER D: INSURER E: INSURER F:
INSURED King Engineering Associates, Inc. 4921 Memorial Hwy Ste 300 Tampa, FL 33634	NAIC # 20443 20478 35289

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractual Liab. GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			6056903005	01/01/2018	01/01/2019	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 15,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			6056902999	01/01/2018	01/01/2019	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			CUE 6056903022	01/01/2018	01/01/2019	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000
C	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N If yes, describe under DESCRIPTION OF OPERATIONS below N / A			WC 656903019	01/01/2018	01/01/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	<input checked="" type="checkbox"/> Professional			AEH591916165	01/01/2018	01/01/2019	Per Claim 2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Professional Liability Aggregate Limit: \$4,000,000

CERTIFICATE HOLDER

CANCELLATION

Evidence of Insurance

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

CITY OF VENICE PROCUREMENT- FINANCE DEPARTMENT
401 W. VENICE AVE. - ROOM # 204
VENICE, FL. 34285
(941) 486-2626
FAX (941) 486-2790
ADDENDUM NO. 2

Date: November 14, 2018

To: All Prospective Proposers

Re: RFQ #3092-18 Professional Engineering Services For Large Utilities Capital Projects

This addendum sets forth changes and/or information as referenced and is hereby made part of and should be attached to the subject Contract Documents. Receipt of this Addendum shall be acknowledged below and in the submitted proposal. It shall be the responsibility of each proposer, prior to submitting a proposal, to contact the City of Venice- Procurement- Finance Department to determine if addenda were issued and to make such addenda a part of their proposal.

The following questions were received in writing:

Question: The written description in Section 2 (Scope of Services) of the boundary of Project 4, Phase Two with the easterly boundary of Peach Street, as well as some of the verbiage of the Phase 3 description, is somewhat confusing. Can a graphic of the boundaries of Project 4 be provided for clarification?

Response: The Phase 2 area of Project 4 should have said, "...bounded on the west by US 41 and on the east by Hatchett Creek..." not on the east by Peach St. The rest of the description should remain the same.

Question: Pursuant to the responses for Q5 and Q6 from Addendum 1, if the exact same Organizational Chart and the same Personnel are proposed for multiple projects, can just one Organizational Chart and one Project Team/Resumes be included, provided it is made very clear that the same team/org chart is being proposed for the multiple listed projects?

Response: Yes, provided it is made very clear that the same team/org chart is being proposed for the multiple listed projects.

Question: Or, should the org chart, project team and resumes be included multiple times?

Response: No. that is not necessary.

Peter A. Boers
Procurement Department

Acknowledgment is requested even if you have elected not to respond to this bid. A designated management representative of your firm can sign the receipt for this addendum. Please acknowledge receipt of this addendum immediately by fax to (941) 486- 2790 or mail to the above noted address, if a fax is not possible.

Receipt Acknowledged:


Signature

King Engineering Associates, Inc.

Company

11/20/18

Date

A copy of this addendum (excluding attachments) is to be included with the proposal response.

CITY OF VENICE PROCUREMENT- FINANCE DEPARTMENT
401 W. VENICE AVE. - ROOM # 204
VENICE, FL. 34285
(941) 486-2626
FAX (941) 486-2790
ADDENDUM NO. 1

Date: November 5, 2018

To: All Prospective Proposers

Re: RFQ #3092-18 Professional Engineering Services For Large Utilities Capital Projects

This addendum sets forth changes and/or information as referenced and is hereby made part of and should be attached to the subject Contract Documents. Receipt of this Addendum shall be acknowledged below and in the submitted proposal. It shall be the responsibility of each proposer, prior to submitting a proposal, to contact the City of Venice- Procurement- Finance Department to determine if addenda were issued and to make such addenda a part of their proposal.

The following questions were received in writing:

Q1: We work with various subconsultants on projects. Do subconsultants need to be stated in the proposal?

If the sub-consultant is going to be performing a significant part of the work please provide their information. You can also provide information on any sub-consultant that you feel would be important for the City to consider in the evaluation of the qualifications.

Q2: Does the city have available asbuilts, record drawings of utilities, preliminary reports, or feasibility studies?

Yes, these will be provided to the selected firms to assist in developing the proposal cost estimate.

Q3: For the Water Main Replacement Phases 7 and 8 project, are we able to receive a copy of the preliminary assessment from Black & Veatch for this proposal?

This report is still in the draft stage. See response to Q2 above.

Q4: Water System Improvements: Phase 1 – Water Booster Station, GST, and Emergency Interconnection; and Phase 2, Second Stage RO System Project – Given that Phase 1 and Phase 2 of the Proposed Water System Improvements are two separate and distinct capital improvements, would the City allow the RFQ response to present these (and be evaluated) as two separate projects?

Yes, the respondent may propose to be evaluated on these two projects separately and, as such, may submit on one or the other if that is the desire. Please be clear in your submittal on what you are proposing.

Q5: If we pursue more than one of the five capital projects, do we provide an organizational chart for each project?

Yes

Q6: Similarly, do we provide a Project Team Form for each project?

Yes

Q7: Please clarify if Phase 2, Second Stage RO System of the Water System Improvements project only includes the preliminary design, including pilot testing. It is unclear if detailed design, permitting and construction administration/inspection services are also part of this phase.

This project will include preliminary design, final pilot testing, final design, permitting, and the construction phase of the project.

Peter A. Boers
Procurement Department

Acknowledgment is requested even if you have elected not to respond to this bid. A designated management representative of your firm can sign the receipt for this addendum. Please acknowledge receipt of this addendum immediately by fax to (941) 486- 2790 or mail to the above noted address, if a fax is not possible.

Receipt Acknowledged:


Signature

King Engineering Associates, Inc.

Company

11/20/18

Date

A copy of this addendum (excluding attachments) is to be included with the proposal response.



King
ENGINEERING ASSOCIATES, INC.

www.kingengineering.com