JEFFERSON PARISH GOVERNMENT

STATEMENT OF QUALIFICATIONS

ADVANCED METERING INFRASTRUCTURE SERVICES

RESOLUTION NO. 137055

ALL SOUTH CONSULTING ENGINEERS, LLC
652 PAPWORTH AVENUE
METAIRIE, LOUISIANA 70005
OFFICE: (504) 322-2783 | FAX: (504) 322-2787

March 16, 2021

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ To Provide Advanced Metering Infrastructure Services - Resolution 137055

B. Firm Name & Address where Project work will be performed:

All South Consulting Engineers

652 Papworth Avenue,
Metairie, Louisiana 70005

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Timothy P. Bonura, P.E.
Managing Partner
504-322-2783
tim@ascellc.com

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Timothy P. Bonura, P.E.
Managing Partner
504-322-2783
tim@ascellc.com

E. Please provide the number of employees whose primary function corresponds with each category:

5	Administrative	0	Estimators	1	Specification Writers
0	Architects (Licensed)	0	Geologists	3	Structural Engineers
0	Chemical Engineers	0	Geotechnical Engineers	1	Graduate Engineers
9	Civil Engineers	0	Interior Designers	3	Project Managers
9	Construction Inspectors	0	Landscape Architects	2	Clerical
0	Ecologists	0	Land Surveyor	6	Grant/Funding Specialist
0	Electrical Engineers	0	Mechanical Engineers	0	Sanitary Engineers
2	Engineer Intern	0	Environmental Engineers		
1	Professional Land Surveyor			51	**TOTAL**

F. Is this submittal by a JOINT-VENTURE? Please check: YES _____ NO ✓

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. NA

2.

H. Has this JOINT-VENTURE previously worked together? Please check:
YES _____ NO _____

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A		
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of this Project:

The All South team has the personnel and resources necessary to immediately adhere to the needs of Jefferson Parish in response to this solicitation. The **seven (7)** team members listed in this submittal are ready to begin work immediately upon notice to proceed. The remainder of the All South personnel and resources are available as called upon by the project team. This includes civil engineers, surveyors, CADD technicians, administrative support, and construction personnel.

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Timothy Bonura, P.E.
Managing Partner/ Principal in Charge

Project Assignment:

Principal in Charge

Name of Firm with which associated:

All South Consulting Engineers, LLC

Years' experience with this Firm:

17

Education: Degree(s)/Year/Specialization:

Bachelor of Science, 1994, Civil Engineering

Active registration: Year first registered/discipline:

2001, Civil, LA License No. 29351
2009, Civil, MS License No. 18974
2009, Civil, AL License No. 30479
2010, Civil, GA License No. 34769

Other experience and qualifications relevant to the proposed Project:

Timothy Bonura, P.E. began his career in 1994 after receiving his Bachelor of Science in Civil Engineering from the University of New Orleans. Having worked in the Civil Engineering business for 10 years, establishing a strong and solid reputation in the metro New Orleans area, Mr. Bonura decided to start his own engineering firm.

In 2004, Mr. Bonura co-founded All South Consulting Engineers, LLC. As Principal, Mr. Bonura is involved in every aspect of the daily operations, which includes designs, project management, business development, client relations, and personally ensures all contractual obligations are fulfilled timely. He is the point of contact for the project owners and ensures that adequate resources are available to all team members.

Over the course of his career, Mr. Bonura has worked with many local, state, and federal agencies and provided professional engineering and project management services on more than $1 billion worth of projects throughout Southeast Louisiana. Mr. Bonura is providing guidance, direction and staffing for current projects. As point of contact between the owner and staff engineers, he ensures the project design and results are compatible with the owners' requested service.

Grand Isle Automated Water Meter System *Grand Isle, Jefferson Parish Louisiana*

Mr. Bonura provided personnel and technical resources to evaluate a system that not only includes the ability to collect meter reading data remotely, but also provide features that will help reduce billing costs, improve customer service, limit water loss and better management of its operations and assets for Jefferson Parish. The project included identifying the size, type, and condition of every meter on Grand Isle. All South created a database that included all meters and the plan for installing the automation, most of which involved adding the automation to the existing meters.

During the evaluation phase of the project, All South looked at several types of AMI systems and providers including AMCO/Itron, Elster Evolution, Datamatic Mosale, Sensus Flex Net, Neptune/Hexagram Badger Orion and Badger Galaxy. In our analysis we worked closely with the Jefferson Parish Department of Water to determine what system would work best with the existing meters on Grand Isle and also the Jefferson Parish AS400 billing system. Badger Automated System was selected and worked with the existing parish billing system and was consistent with the types of meters the Jefferson Parish Department of Water installed on their system. During our evaluation and recommendation, the Parish determined they could order the meters through the existing Parish contract.

All South prepared bid documents for the contractor to install the AMI system. The All South Project Manager, Lead Engineer, and Resident Project Representative attended a training session held by Itron on the installation and set up of these automated meters. All South performed Resident Inspection and Construction Management duties for this project. The difficulties faced with the installation included difficulty coordinating with property owners since many properties in Grand Isle are weekend and summer homes. Also, many meters were extremely old and corrosive and required modifications to meter boxes and connections. To date, this is the only automated meter system in Jefferson Parish and the installation was on both residential and commercial properties.

Jefferson Parish AMI and Billing System – Parish Wide *Jefferson Parish, Louisiana*

Mr. Bonura was responsible for managing the All South portion of the analysis which included working with Digital Engineering on completing this project. All South's components consisted of the following tasks:

- Existing Meter Accuracy and Testing Review
- Historical Meter Data Comparison
- Automated Meter Reading Background Information
- Automated Metering Infrastructure Background Information
- Existing Meter Quantities and Type Database
- Existing Billing System Capability
- Procurement Options
- Implementation options

This project involved working with the Jefferson Parish Water Department in identifying meters to remove, and an analysis to determine the loss rates of older meters. This was done to estimate the savings of installing new meters and the effectiveness of the automated meters in determining water loss. Data analysis was performed to determine the amount, sizes and types of meters currently being used in order to better establish a replacement cost for new automated meters and to determine if some meters would just require adding automation.

Our team looked into the Water Department's billing system and identified systems that would incorporate into the existing system, as well as new standalone systems. All South researched funding and grant opportunities which included both state and federal funding eligibilities. Based on the analysis utilizing the meter data compiled and water consumption, it is estimated that the Parish will see increased revenue from the automated meters of approximately $161,545.37 in water revenue and $247,386.18 in additional sewer revenue since the sewer rates are based on water consumption.

Bayou Country Sports Park *Houma, Louisiana*

Mr. Bonura led a team tasked with the development of the Bayou Country Sports Park, a 140-acre park site in Terrebonne Parish. This development included ball fields, soccer fields, concession stands, and other amenities. Improvements included in the infrastructure project included drainage, sewer, water, and roadway improvements. Water System included installation of metering system and backflow prevention.

TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Jens J. Nielsen, Jr., P.E.
Partner/ Principal in Charge

Project Assignment:

Principal

Name of Firm with which associated:

All South Consulting Engineers, LLC

Years' experience with this Firm:

17

Education: Degree(s)/Year/Specialization:

Bachelor of Science, 1992, Civil Engineering

Active registration: Year first registered/discipline:

1996, Civil, LA License No. 27096
1999, Civil, Mississippi License No. 19001

Other experience and qualifications relevant to the proposed Project:

Jens J. Nielsen Jr., P.E. began his career in 1992 after receiving his Bachelor of Science in Civil Engineering from Louisiana State University. Upon graduating, he worked for 12 years with three multi-disciplinary civil engineering firms. During his tenure with these firms, Mr. Nielsen worked as design engineer and construction manager on engineering projects for municipal, private, and state projects.

After establishing his reputation as an experienced and trusted civil engineer in Southeast Louisiana, Mr. Nielsen was prompted to enhance his career even further. In 2004, Mr. Nielsen co-founded All South Consulting Engineers, LLC. As Principal, he manages the daily operations of the firm, overseeing designs and project management, ensuring time and budgetary commitments are upheld, and maintaining key client relations. Mr. Nielsen has provided QA/QC over the projects that All South Consulting Engineers has designed. He has additionally provided QA/QC services for the designs of other consultants as project manager of FEMA related projects after Hurricane Katrina for various municipalities.

Jefferson Parish Water Meter Reading Analysis *Jefferson Parish, Louisiana*
Mr. Nielsen was the Principal Engineer responsible for a Parish Wide evaluation in Jefferson Parish for the installation of an Automated Water Meter System. As part of this work, Mr. Nielsen provided an update to the 2008 feasibility study to evaluate the deployment of a 2012 Advanced Metering Infrastructure (AMI) system for Jefferson Parish, LA.

All South provided a report of the different types of AMI systems and how each system functions and provided a recommendation to the Parish. The methodology used to select the best product consisted of an analysis of 10 vendors. All South evaluated these vendors for their Transmitter, Collector, Server & Software, Billing System Integration, Support

Services Options and Issues and Concerns. The evaluations were tabulated with the appropriated scores, and a recommendation was submitted to the Parish. As a result of this evaluation, the Parish decided to direct its efforts to Grand Isle, alone, to test the Advanced Meter Reading Systems before moving forward with installation parish wide.

Grand Isle Automated Water Meter System *Grand Isle, Jefferson Parish Louisiana*
Mr. Nielsen provided personnel and technical resource to evaluate a system that not only includes the ability to collect meter reading data remotely, but also provide features that will help reduce billing costs, improve customer service, limit water loss and better management of its operations and assets for Jefferson Parish. His responsibilities included ensuring that All South provided all phases of project development on time and within budget. He provided clarification and presented project findings and reviewed all submittals for accuracy and implementation.

The project included identifying the size, type, and condition of every meter on Grand Isle. All South created a database that included all meters and the plan for installing the automation, most of which involved adding the automation to the existing meters. During the evaluation phase of the project, All South looked at several types of AMI systems and providers including AMCO/Itron, Elster Evolution, Datamatic Mosale, Sensus Flex Net, Neptune/Hexagram Badger Orion and Badger Galaxy. All South prepared bid documents for the contractor to install the AMI system. The All South Project Manager, Lead Engineer, and Resident Project Representative attended a training session held by Itron on the installation and set up of these automated meters. All South performed Resident Inspection and Construction Management duties for this project.

The results of this project in Grand Isle have shown proven efficiency and cost savings associated with a more advanced system. Based on these results, Jefferson Parish seeks to expand this metering technology parish wide.

Jefferson Parish AMI and Billing System – Parish Wide *Jefferson Parish, Louisiana*
Mr. Nielsen provided project management and oversight for an evaluation of an Automated Metering and Billing System for Water Services in Jefferson Parish as part of a team with Digital Engineering and Imaging, Inc. Based on the results of this study, All South was able to provide recommendations to upgrade Jefferson Parish's current water meter system to an Advanced Metering Infrastructure (AMI), which includes the ability to collect meter readings remotely and also provide features that can aid in reduced billings expenses, improvements to customer service and improvements to meter reading management operations. Mr. Nielsen and the All South team looked into the Water Department's billing system and identified systems that would incorporate into the existing system, as well as new standalone systems. Based on the analysis utilizing the meter data compiled and water consumption, it is estimated that the Parish will see increased revenue from the automated meters of approximately $161,545.37 in water revenue and $247,386.18 in additional sewer revenue since the sewer rates are based on water consumption.

Port of New Orleans Cross Connection Control Program
This project included design and installation of approximately 290 backflow preventors throughout all Port of New Orleans facilities. Water systems protected by this project including both domestic water and fire protection systems. This project brought the Port of New Orleans water system into cross connection compliance with the EPA and DHH. Mr. Nielsen was the principle in charge and coordinated with all engineers working on the project and the Port of New Orleans. Mr. Nielsen also performed construction administration on the project.

Crown Point to Lafitte Waterline *Jefferson Parish, Louisiana*
Mr. Nielsen was responsible for the engineering design, construction administration, and inspection of 2.2 miles of 24" waterline, the last phase of the connection of the Jefferson Parish Water Plant to the Town of Grand Isle. The work included permitting with the LaDOTD, DEQ, USFW, and Corps of Engineers, engineering design of polyethylene pipe via direct burial, jack and bore, and directional drilling, construction administration and resident inspection of the project.

Hydrant and Valve Maintenance Program *East Bank, Jefferson Parish, Louisiana*
Mr. Nielsen was responsible for the development of a program to exercise and replace failing water valves and hydrants at 150 locations. The work also included the full-time resident inspection, construction administration, and contractor management of the entire project.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Stephen Bourg, P.E.
Senior Vice President

Project Assignment:

Senior Project Manager

Name of Firm with which associated:

All South Consulting Engineers, LLC

Years' experience with this Firm:

15

Education: Degree(s)/Year/Specialization:

Bachelor of Science, Civil Engineering, 1994
Post-Graduate Studies – Structural Engineering, 1994-1996

Active registration: Year first registered/discipline:

1998, Civil, Louisiana License No. 28240

Other experience and qualifications relevant to the proposed Project:

Stephen Bourg, P.E. joined All South Consulting Engineers in 2005, and is currently Senior Vice President managing both the design and disaster management divisions. His responsibilities include oversight of all design projects and grant programs. Mr. Bourg manages a staff of over 40 individuals including professional engineers, program/construction managers and other design/supporting professionals. Mr. Bourg has over 23 years of civil structural design experience and over 12 years of PA, HMGP, Debris & PDA experience on 7 federally declared disasters. He has overseen design, program, and construction management of over 2 billion dollars of projects which include: schools, theme parks, roads, bridges, locks, drainage infrastructure, public utilities, pump stations, coastal restoration, levees, floodwalls, hotels, fire houses, high rise condos, community centers, and numerous commercial buildings.

Grand Isle Water Itron Water Meter Installation – Jefferson Parish Water Department
Mr. Bourg provided design and administration oversight for the construction of new Itron sensors (automated readers) and water meters to over 2400 residential and commercial service lines on Grand Isle. This project involved project management, resident inspection, and quality control services for Jefferson Parish. The project consisted of installing RF transmitters attached to each water meter in Grand Isle. A preliminary trial was conducted to test the viability of the RF transmitters in a coastal environment. The goal was to limit the need for traditional meter reading practices. Using the transmitters coupled with a handheld scanner, a Jefferson Parish employee could drive down any street and collect the meter data without having to exit the vehicle. This method was tested successfully for over a year with a small portion of meters installed throughout Grand Isle. Once the trial phase was completed the Parish issued a request for bid for the larger installation encompassing the entirety of Grand Isle.

Grand Isle Water System Improvements *Jefferson Parish, Louisiana*
Mr. Bourg provided design and administration oversight for the construction of new chlorine and ammonia feed, chemical feed buildings, and process equipment at both the East Island ground storage tank and at the Cheniere ground storage tank. This project involved construction of a new booster pump station centrally located on Grand Isle to maintain pressure in the line during periods of high use and to maintain pressure in the line while filling the Cheniere ground storage tank from the East Island pump station.

Grand Isle Water Valve Platform Evaluation *Jefferson Parish, Louisiana*
Mr. Bourg provided design oversight to staff engineers for the evaluation of 27 existing valve platforms between Lafitte and Grand Isle. Structural, mechanical, and subsurface evaluation was conducted to develop a repair scope to get these structures back to original installed condition. Alternative repair scopes / phasing was investigated to provide the Parish options in regarding to their budget.

St. Bernard Raw Waterline Replacement *St. Bernard Parish, Louisiana*
Mr. Bourg provided design oversight to staff engineers for the design of a 3 new 8" diameter water lines in St. Bernard Parish. This project consisted of design of over 10,000 linear feet of 8" PVC C-900 lines on three different streets. It included abandonment of the existing mains and service connections. The new water was off set to minimize the disturbance of the adjacent new roadways and to avoid other utilities. Additionally, the project included the directionally drilling of ½ of the service lines under the existing roadways.

St. Bernard Raw Water Intake *St. Bernard Parish, Louisiana*
Mr. Bourg provided design oversight to staff engineers for the design of a new raw water intake line to the Mississippi River to feed St. Bernard's water treatment plant. The water intake line was designed as a 48" HDPE 1000' long horizontal directional drill under the river batture into the Mississippi River. Additionally, the project consisted of a drilling and receiving pit cofferdam in the Mississippi river and adjacent to the USACE river levee. Both cofferdams were designed to the USACE standards. Coastal use and USACE permits were acquired for this project. Alternative installation options were investigated during the design phase.

State of Louisiana
Jefferson Parish

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Jarret Bauer, P.E.
Vice President, Civil Engineer

Project Assignment:

Civil Engineer

Name of Firm with which associated:

All South Consulting Engineers, LLC

Years' experience with this Firm:

15

Education: Degree(s)/Year/Specialization:

Bachelor of Science, 200, Civil Engineering

Active registration: Year first registered/discipline:

2011/ Civil PE Louisiana License No. 36720

Other experience and qualifications relevant to the proposed Project:

Jarret Bauer is a graduate of Loyola University in New Orleans and Louisiana State University, achieving a B.S. in Civil Engineering and a B.A. in Business Administration from Loyola University in May 2005. Mr. Bauer has been with All South for 13 years and has substantial experience with projects of various scope and size.

Parish-Wide Water Infrastructure Repairs and Replacements, *Plaquemines Parish, Louisiana*
Mr. Bauer provided design and construction oversight and grant management for Parish-wide water infrastructure repairs completed after Hurricane Katrina. These repairs included water line point repairs, valve repairs, and hydrant repairs. Mr. Bauer was required to review repair purchase orders accuracy based on required field repairs as part of the grant closeout.

Parish-Wide Fire Hydrant Repairs and Replacements, *Plaquemines Parish, Louisiana*
Mr. Bauer assisted with a Parish-wide effort to repair or replace fire hydrants and associated supply lines after Hurricane Katrina. As part of this effort, the contractor completed onsite evaluations and repairs while All South was able to develop additional purchase orders and maintain progress ahead of the contractor.

Blahut Road Water System Improvements (Phase II), *Livingston Parish, Louisiana*
Mr. Bauer assisted with site specific data collection and provided project oversight on the project. Mr. Bauer oversaw design of the project, which included a waterline extension for approximately 2900 feet. The project was planned and designed in a manner to allow for future connectivity as additional grant funding allows.

Davant Water Tank, *Plaquemines Parish, Louisiana*

Mr. Bauer assisted managing the design, construction, and inspection program of a 30,000-gallon water tank elevated 30' above grade to supply water pressure to a rural community center's fire sprinkler system. Mr. Bauer worked daily with construction inspection personnel to ensure the tank construction and operation was coordinated with opening of the facility. Mr. Bauer provided direct coordination with Owner on the project.

Diamond Booster Station, *Plaquemines Parish, Louisiana*

Mr. Bauer provided project management of the repair of the Diamond Booster Station, including replacement of pump motors and associated waterlines, the relocation of the Motor Control Center ("MCC") electrical equipment to an exterior, elevated building on concrete piles for future flood protection, and the replacement of SCADA capabilities to the station. The project includes recovery grant and hazard mitigation grant elements for which Mr. Bauer provided all management efforts.

Port Eads Marina Water Tank, *Plaquemines Parish, Louisiana*

Mr. Bauer assisted with management of the design, construction, and inspection program of a 60,000-gallon water tank elevated 11' on a concrete platform on South Pass just miles from the mouth of the Mississippi River. Mr. Bauer provided onsite presence during month inspections and daily interaction with the contractor to ensure scheduling and project efficiencies. Mr. Bauer also directly handled the grant process.

Port Sulphur Water Treatment Plant, *Plaquemines Parish, Louisiana*

Mr. Bauer provided oversight of design activities associated with the Port Sulphur Water Treatment Plant project. This site is being converted into a water booster station with residual chlorine treatment at the site. Mr. Bauer worked with the Owner to ensure needs and requirements were met to achieve upcoming DHH water quality standards of design.

State of Louisiana
Jefferson Parish

TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Brandon Arceneaux, P.E.
Civil Engineer

Project Assignment:

Project Engineer

Name of Firm with which associated:

All South Consulting Engineers, LLC

Years' experience with this Firm:

3

Education: Degree(s)/Year/Specialization:

Bachelor of Science, Civil Engineering, 2002

Active registration: Year first registered/discipline:

2009, Civil, Louisiana License No. 34301

Other experience and qualifications relevant to the proposed Project:

Mr. Arceneaux joined All South Consulting Engineers, LLC in September 2018. Since receiving his Bachelor of Science in Civil Engineering from the University of Louisiana at Lafayette in 2002, Mr. Arceneaux has acquired substantial knowledge and experience in Civil Engineering and Project Management. He is a versatile, value-driven engineer/project manager with experience leading multiple types of projects from conceptual to plan to build to close out/operation stage.

In his experience as Project Manager, Mr. Arceneaux has provided project management services for various types of projects and acted as in-house professional engineer. As a Civil Engineer, he has led teams through development, engineering, design and permitting in all phases of site development and infrastructure improvement from requirements gathering through build, test phases, QA, launch and support.

Jefferson Parish Automated Metering and Billing System Evaluation for Water Service *Jefferson Parish, Louisiana*
Mr. Arceneaux was responsible for providing an evaluation of an Automated Metering and Billing System for Water Services in Jefferson Parish. He analyzed data provided by the owner and determined consumption lost relevant to meter sizes and age. Based on the results of this study, Mr. Arceneaux was able to provide recommendations to upgrade Jefferson Parish's current water meter system to an Advanced Metering Infrastructure (AMI), which includes the ability to collect meter readings remotely and also provide features that can aid in reduced billings expenses, improvements to customer service and improvements to meter reading management operations.

Bayou Country Sports Park *Houma, Louisiana*
Mr. Arceneaux was part of a team tasked with the development of the Bayou Country Sport Park, a 140-acre park site in Terrebonne Parish. This development included baseball fields, soccer fields, concession stands, and other amenities. This site was developed to be consistent with regional storm water and green space plans; he developed parking spaces utilizing fiber reinforced grass instead of solid pavements, and the retention ponds are not only utilized for recreation activities, but also as storage for runoff. Mr. Arceneaux oversaw engineering design, preparation of plans and specifications, project representation, and contract administration for various aspects of this project.

CIS Gray Campus *Gray, Louisiana*
Mr. Arceneaux provided engineering services for the Cardiovascular Institute of the South, assisting in the master planning phase of a 24-acre tract medical campus. The scope included coordinating with multiple government agencies and utility providers to ensure compliance with sewer, water, drainage, gas, & concrete roadway regulations and zoning requirements.

Waterline Replacement Along Bayou Blue Road *Houma, Louisiana*
Mr. Arceneaux provided engineering services for the installation of a new 12" waterline along Bayou Blue Road in Terrebonne Parish. This new 5,000' line will replace and existing 4" line operated by the Terrebonne Consolidated Water District. The duties included topographic surveying, permitting, preliminary & final design, specifications, and construction administration.

Waterline Replacement Along W. 44th St., N. Oak St., 6th St., & Jay Drive *Lafourche Parish, Louisiana*
This project called for the replacement of existing waterlines and included topographic surveying, permitting, preliminary & final design, plans, specifications, and contract administration.

18" Waterline Cut Off to Larose *Lafourche Parish, Louisiana*
Mr. Arceneaux provided engineering services for the Lafourche Water District No. 1 for the 18" Water Line – Cut Off to Larose project. The project consisted of topographic surveying, permitting, preliminary and final design plans, specifications, and contract administration.

Waterline Replacement on West 26th St., Louis St., Ave. "A", & West 64th St. *Lafourche Parish, Louisiana*
Mr. Arceneaux provided engineering services for the Lafourche Water District No. 1 for the Water Line Replacement on West 26th St., Louis Street, Avenue "A", and West 64th Street project. The project consisted of topographic surveying, permitting, preliminary and final design plans, specifications, and contract administration.

Waterline Replacement along Richard St., Central St., Dupre St., & Shirley Lee St. *Lafourche Parish, Louisiana*
Mr. Arceneaux provided engineering services for the Lafourche Water District No. 1 for the Water Line Replacement along Richard Street, Central Street, Dupre Street, and Shirley Lee Street project. The project consisted of topographic surveying, permitting, preliminary and final design plans, specifications, and contract administration

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Jack Hingle, P.E.
Senior Civil Engineer

Project Assignment:

Senior Engineer

Name of Firm with which associated:

All South Consulting Engineers, LLC

Years' experience with this Firm:

6

Education: Degree(s)/Year/Specialization:

Bachelor of Science, 1979, Civil Engineering

Active registration: Year first registered/discipline:

1987/ Civil PE Louisiana License No. 22622

Other experience and qualifications relevant to the proposed Project:

Jack Hingle joined All South Consulting Engineers in 2014, bringing over 30 years of engineering experience. He has extensive drainage, sewage, water, and roadway experience performing such design for local parishes and the LaDOTD.

St. Bernard Parish DWRLF Water Replacement Project 2.2 *St. Bernard Parish, Louisiana*
This project consists of the design and construction/installation of new 8" diameter water distribution lines and abandonment of existing 2' through 6" diameter water lines along 6 residential streets (Lebeau St., Alexander Ave., Schnell Dr., Benjamin St., Rose St. and Karl Dr.) of an Arabi neighborhood. Mr. Hingle through the All South inhouse staff is/was responsible for the survey coordination, drafting and CAD coordination, and along with coordination with the St. Bernard Parish project engineer manager for development of the plans including plan-profile sheets, typical sections, quantities, special details, traffic plans, cost estimation and project specifications through bid and contract award phase to contractor and construction management throughout until final closeout and acceptance all in conjunction with the St. Bernard Parish Department of Public Works.

St. Bernard Parish Water Treatment Plant Raw Water Intake Retrofit *Chalmette, Louisiana*
This project involved the development, design, layout and final preparation of engineering plans necessary for the replacement of a damaged/obsolete raw water intake supply pipe with a larger pipe (48" HDPE) from the Mississippi River to the St. Bernard water treatment plant by Horizontal Directional Drill (HDD) and all necessary connections to make operable. Mr. Hingle has coordinated meetings with surveyor, USACE, several drill contractors, geotechnical consultant, St. Bernard Parish Public Works officials, etc. to gather sufficient information to develop final plans and details, cost estimate and specifications and coordinate with CAD staff to ultimately bid/construct project.

TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Dominick Monistere
Inspector

Project Assignment:

Project Inspector

Name of Firm with which associated:

All South Consulting Engineers, LLC

Years' experience with this Firm:

5

Education: Degree(s)/Year/Specialization:

Bachelor of Science, 2015, Industrial Technology Supervision / Automated Systems, minor in Construction Management

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

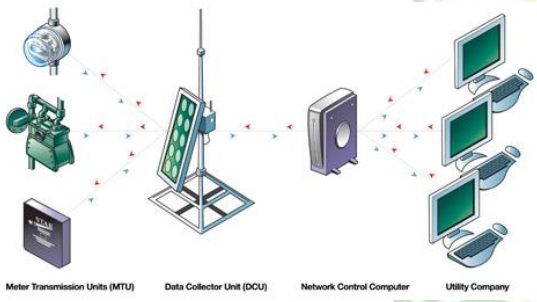
Dominick Monistere joined All South Consulting Engineers, LLC in early 2016 and has performed Resident Inspection services, as well as Disaster Recovery Management services. Mr. Monistere has conducted inspection work for All South, most notably for the Jefferson Parish, Grand Isle Automated Water Meter project. Additionally, he has assisted several clients with cost reconciliation, cost justification, closeout, and reimbursement for many different types of FEMA Public Assistance Grants. He has provided these services for grants totaling over $40 M in his time at All South.

Grand Isle Automated Water Meter Project *Jefferson Parish, Louisiana*
All South was hired to provide project management, resident inspection, and quality control services for Jefferson Parish. The project consisted of installing RF transmitters attached to each water meter in Grand Isle. A preliminary trial was conducted to test the viability of the RF transmitters in a coastal environment. The goal was to limit the need for traditional meter reading practices. Using the transmitters coupled with a handheld scanner, a Jefferson Parish employee could drive down any street and collect the meter data without having to exit the vehicle. This method was tested successfully for over a year with a small portion of meters installed throughout Grand Isle. Once the trial phase was completed the Parish issued a request for bid for the larger installation encompassing the entirety of Grand Isle. Mr. Monistere provided resident inspection and quality control practices for all meters installed in Grand Isle. The project duration was 3 months ending with thousands of successful installations. Each installation was photographed five times. A picture of the street, address, RF serial number, meter number, and completed installation was taken for all meters.

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
Jefferson Parish Meter Reading Analysis *Jefferson Parish, Louisiana* Jefferson Parish Government Water Department Thomas West, Director 1221 Elmwood Park Blvd. Jefferson, Louisiana 70123 (504) 736-6500  	All South Consulting Engineers was selected by Jefferson Parish Government to prepare an Advanced Metering Infrastructure report on different types of automated meter reading systems and the associated costs for installation throughout the Parish. All South worked with Triton AMI to develop the report. Once completed, All South was tasked to evaluate, recommend, and implement the installation of an Automated Water Meter System in Grand Isle. Grand Isle was going to be the Parish's test system for AMI. This contract was to review the different type of Automated Systems and determine how they could incorporate into the Department of Waters existing system. Prior to this contract, Grand Isle operated and managed their own system, which was consistent with the Jefferson Parish system. *Set one included All South providing an update to the 2008 feasibility study to evaluate the deployment of a 2012 Advanced Metering Infrastructure system for Jefferson Parish. The original report was broad in scope and focused primarily on the existing system and did not include the difficulties in operating a system in remote locations like Grand Isle or Lafitte.* All South provided a report of the different types of AMI/AMR systems, how each system functions, how each system would work in Grand Isle, and provided a recommendation to the Parish on what systems would function best with the existing water technology. The methodology used to select the best product consisted of an analysis of 10 vendors which All South evaluated for their Transmitter, Collector, Server & Software, Billing System Integration, Support Services Options, and Issues & Concerns. All South tabulated the evaluations and provided a recommendation to the Parish. The report provided to the parish outlines that Automatic Meter Reading (AMR) is the technology of automatically collecting consumption, diagnostic, and status data from water meter devices and transferring the data to a central database for billing, troubleshooting, and analyzing. The report showed different types of AMR systems including: Touch-based AMR – a handheld data collection device that collects the readings from a meter by placing the probe in close proximity to the touchpad; and Radio Frequency which uses radio signals to transmit data across devices and can take many forms, such as handheld, mobile, satellite, and fixed network solutions. Advanced Metering Infrastructure (AMI) system implements a fixed network reader which allows a utility company to remotely collect data from a fixed location by transmitting the readings to a water facilities office. AMI systems can detect leaks and/or backflow in a water system, as well as meter tampering which allows the utility to remotely turn off water flow with a special type of meter. The AMR system has similar capabilities in regard to leak detection, however, the detected leaks would not be known until the meter is read as opposed to being immediately alerted. AMR systems also do not have the capability to remotely turn off meters. *For Grand Isle it was determined that the Mobile or "drive-by" meter reading would best serve the needs of the Parish. This system requires a reading device is installed in a vehicle and the meter reader drives the vehicle while the reading device automatically collects the meter readings. All readings can be received by driving down LA1.*

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	**Work for which Firm was Responsible:**
03/2013	$83,164	$100,164

TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Grand Isle Meter Reading Study *Jefferson Parish, Louisiana* Jefferson Parish Government Water Department Thomas West, Director 1221 Elmwood Park Blvd. Jefferson, Louisiana 70123 (504) 736-6500	All South Consulting Engineers, LLC was selected to provide an evaluation and meter identification survey of the Grad Isle Water system. Around 2005 the Jefferson Praish Water Department incorporated the assest of the Grand Isle water system into the parish system. The Parish did not have any billing records or as built drawings to identify the assets of the Grand Isle system and therefore, contracted with All South to survey the entire Grand Isle Water Syetem and identify the assets. The Jefferson Parish Water Department was also trying to reduce costs and improve efficiency of the water system. One proposal was to implement automated water systems throughout Jefferson Parish. The Parish first asked All South to assess and inventory the existing meters on the island. All South provided a survey of the existing water distribution system to locate existing meters and residential taps. Being that Grand Isle floods every few years, made this task very difficult to first locate all the existing meters, then dig and identify equipment. Another dificult component in the meter identification was determining which meters serviced what locations. Several had more than one tap and with many residences being vacation or summer homes so residents were not on site. Identification of billing locations in some instances involved shutting meters off and awaiting complaints. This process identified several new customers and involved installing new meters. All South provided an assement to help reconcile billing and finance for the Parish based on the following factors: • meter sizes • number of meters • manufacture types • residential addresses • residential taps Based on the results of the assessment, All South was able to provide the Parish with recommendations to update the meter reading system. From these recommendations, the Parish decided to provide the water meters and used the battery-operated units. The Parish decided to use a drive by meter reading system and chose a labor/installation contract for their system.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
04/2015	$139,000	$139,000

TEC Professional Services Questionnaire

PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
Grand Isle Water Meter Implementation *Jefferson Parish, Louisiana* Jefferson Parish Government Water Department Thomas West, Director 1221 Elmwood Park Blvd. Jefferson, Louisiana 70123 (504) 736-6500	All South was selected to provide the Design and Construction Administration for installation of an Automated Metering System in Grand Isle. This system conforms to recommendations made by a parish wide Automated Meter Reading Study prepared by All South Consulting Engineers and the Director of the Jefferson Parish Department of Water. The Parish asked All South to assist in planning and installing the battery operated drive by meter reading system. Based on the field data collection, All South prepared plans and specifications for the installation of over 2400 meters in Grand Isle. All South provided civil and structural design including construction administration and resident inspection for this project. In 2016, the water system on Grand Isle was converted from a manual meter reading system to an AMR system. All South provided resident inspection services for the removal of the existing water meters and the installation of new meters along with incidental work such as replacing necessary meter boxes, lids, fittings, appurtenances, etc. The AMR meters installed were equipped with Itron 100W+ERT-1300-402 transmitters. Due to proprietary licensing requirements for the equipment and software, All South sub contracted Itron prior to installation to provide training for proper installation and troubleshooting techniques of transmitter modules, and to incorporate the new system into the Jefferson Parish Water electronic system. Following the installation, All South provided leak testing which indicated that issues could be avoided by setting the threshold higher at the time of installation. The size, quantity, and model of meters installed on Grand Isle are summarized in the following table: SIZE / QUANTITY / MODEL 5/8"x3/4" / 2,214 / Badger Model 25 1" / 38 / Badger Model 70 2" / 22 / Badger Model 170 3" / 2 / Badger Model RT-0300 4" / 5 / Badger Model RT-0400 To date, this system is working well but requires the parish to perform a drive by once a month to collect the data. All South provided Jefferson Parish with a recommendation and transfer options if the Parish choses to move forward with AMI and include Grand Isle.

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	**Work for which Firm was Responsible:**
06/2017	$178,000	$178,000

TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Jefferson Parish Water Meter Removal and Installation (Digital Study) *Jefferson Parish, Louisiana* Jefferson Parish Government Water Department Thomas West, Director 1221 Elmwood Park Blvd. Jefferson, Louisiana 70123 (504) 736-6500	All South Consulting Engineers, LLC was selected by Jefferson Parish Government to work with Digital Engineering and Imaging, Inc to provide an evaluation of an Automated Metering and Billing System for Water Services in Jefferson Parish. The following tasks were required to complete the feasibility study: - Task 1: Existing Meter Accuracy Testing Review - Task 2: Historical Meter Data Comparison - Task 3: Automated Meter Reading Background and Information - Task 4: Automated Metering Infrastructure Background & Info - Task 5: Existing Meter Quantities and Types - Task 6: Existing Water Meter Boxes - Task 7: Existing Billing System Compatibility - Task 8: Billing Cycles Current and Future - Task 9: Procurement Options - Task 10: Implementation Options - Task 11: Prepare Report and Presentation Materials - Task 12: Kickoff Meeting and Workshops The water metering system currently in place for Jefferson Parish is physically reading each water meter, with the exception of Grand Isle. Based on the results of this study, All South was able to provide recommendations to upgrade Jefferson Parish's current water meter system to an Advanced Metering Infrastructure (AMI), which includes the ability to collect meter readings remotely and also provide features that can aid in reduced billings expenses, improvements to customer service and improvements to meter reading management operations. Utilizing an Automated Metering Infrastructure parish wide gives Jefferson Parish the ability to reduce the cost of meter reading and increase efficiency in collecting water meter information. Our team looked into the Water Department's billing system and identified systems that would incorporate into the existing system, as well as new standalone systems. Based on the analysis utilizing the meter data compiled and water consumption, it is estimated that the Parish will see increased revenue from the automated meters of approximately $161,545.37 in water revenue and $247,386.18 in additional sewer revenue since the sewer rates are based on water consumption. All South was previously involved in a similar process in Grand Isle which has resulted in proven efficiency and cost savings associated with a more advanced system. Based on these results, Jefferson Parish seeks to expand this metering technology parish wide.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
09/2019	$260,000	$79,978

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
St. Bernard Water Meters Installation Project *St. Bernard Parish, Louisiana* St. Bernard Parish Government Department of Public Works 1125 E. St. Bernard Highway Chalmette, Louisiana 70043 (504) 278-4300	All South provides disaster recovery project management services to St. Bernard Parish Government as a subconsultant for the Hurricane Katrina FEMA-funded Recovery Program. All water meters owned, serviced, and operated by St. Bernard Parish Government were damaged beyond repair as a result of Hurricane Katrina. All South worked directly with FEMA to quantify the estimated number and sizes of damaged meters based on pre-storm water billing records for all residential, commercial, and institutional customers, in order to get a Project Worksheet written to fund the Parish's meter system. Eligibility was ultimately granted to replace and install 25,725 meters and meter boxes, as needed, with an automatic meter reading system, or AMRS. The Parish decided to use a drive by meter reading system (specifically, a Badger Meter ORION AMR system) for which All South managed the labor/installation contracts. As the contractor replaced a meter and transmitter, the new meter number and AMR transmitter number were recorded to replace the old meter number based on the property address. GPS coordinates of the new meter were also recorded. This information was submitted to the Parish on a weekly basis so their water board records and GIS system could be updated accordingly. In total, 19,000 meters and 15,000 meter boxes were replaced throughout St. Bernard Parish. 	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
12/2013	$3,041,735	$3,041,735

TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Plaquemines Parish Wide Water Meter Program *Plaquemines Parish, Louisiana* Plaquemines Parish Government Ken Dugas, Parish Engineer 333 F. Edward Hebert Blvd, Bldg. 500 Belle Chasse, LA 70037 (504) 934-6115	Plaquemines Parish sustained significant damages following Hurricane Katrina. In particular, the water infrastructure system was severely damaged, and many displaced residents were unable to return. Plaquemines Parish was allocated over $3 million for water meter repairs and replacement following the storm event through FEMA's Disaster relief program. All South assisted Plaquemines Parish in labor, material, and equipment invoicing reviews for the installation of over 3,000 water meters totaling over $1,400,000. The meters ranged in size from ¾", 1", 1.5", and 2" meters. All South provided a system assessment to include a review of population densities before and after the storm event, as well as a review of existing infrastructure remaining following the event. This work was done in conjunction with the Parish's water system operator. The infrastructure review included an assessment of existing meters, as well as additional required meters, and the current demands and capabilities of the system. As a result, All South and Plaquemines Parish were able to determine that the remaining meters would not be required to do the condition of the water system infrastructure, and the reduce demands on the system. In lieu of forgoing the remaining funds, All South assisted Plaquemines Parish in declaring the remaining funds as eligible for an alternate purpose through FEMA's disaster relief program. The Parish was then able to utilize the funds for remaining needs as part of the overall rebuilding effort.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
05/2014	$3,326,886	$3,326,886

TEC Professional Services Questionnaire

<table>
<tr><th colspan="3">PROJECT NO. 7</th></tr>
<tr><th>Project Name, Location and Owner's contact information:</th><th colspan="2">Nature of Firm's Responsibility:</th></tr>
<tr><td>Plaquemines Parish Wide Waterline and Fire Hydrant Repair Program,
Plaquemines Parish, Louisiana

Plaquemines Parish Government
Ken Dugas, Parish Engineer
333 F. Edward Hebert Blvd, Bldg. 500
Belle Chasse, LA 70037
(504) 934-6115</td><td colspan="2">All South Consulting Engineers completed a 175-unit fire hydrant and valve assembly replacement project for Plaquemines Parish after Hurricane Katrina. This project spanned locations Parish-wide on both the Westbank and Eastbank of the Parish. The Parish issued Purchase Orders direct to the contractor to complete the project's scope of work. All South's responsibility was to diagnose issues in the field and generate Work Orders for the contractor, which the Parish then used to generate each Purchase Order. The Work Orders required All South to monitor and track the contractor's progress while identifying repairs necessary ahead of the contractor's progress. Hydrant types included flange hydrants, mechanical joint hydrants, push on hydrants, and lead joint hydrants. All South coordinated this effort through field and office engineers, visually identifying damages, and proposed repair scopes. At the same time, field inspection staff were monitoring contractor progress on the existing scope of work and reporting all details to central office staff for work order generation and approval.

This project required real-time troubleshooting and problem identification of each hydrant and valve assembly, as well as the ability to generate in-line tap repair scopes for damaged line segments. All South's field staff maintained on-time reporting from the field and office staff maintained constant communication with the Parish to ensure the Parish was able to maintain progress ahead of the contractor.

All South's flexibility of both field and office personnel allowed Plaquemines Parish to generate an on-schedule, within budget project, complete with final project reports meeting Federal grant requirements.

  </td></tr>
<tr><td rowspan="2">Completion Date (Actual or estimated):</td><td colspan="2">Estimated Cost:</td></tr>
<tr><td>Entire Project:</td><td>Work for which Firm was Responsible:</td></tr>
<tr><td>04/2014</td><td>$775,000</td><td>$95,000</td></tr>
</table>

TEC Professional Services Questionnaire

PROJECT NO. 8

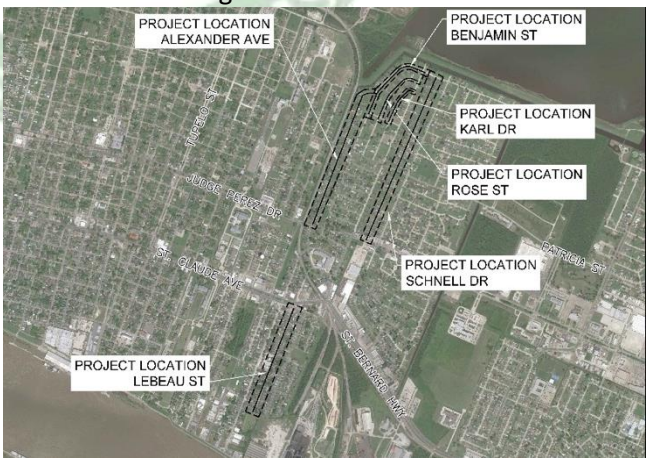
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
Port of New Orleans Backflow Prevention/ Cross Connection Control *New Orleans, Louisiana* Port of New Orleans Ryan Bylsma 1350 Port of New Orleans Pl New Orleans, LA 70130 (504) 528-3500  	All South Consulting Engineers, LLC conducted a study for the Port of New Orleans to prepare a hazard mitigation plan identifying the sizes and locations to install back flow prevention devices throughout the Port's water system. All South provided surveying, design, bidding, construction administration, and construction inspection for the development of the Cross Connection Control Program. The project involved the study of existing water systems to identify cross connection control hazards, develop solutions to address identified hazards, design, and implement those approved solutions. The Port of New Orleans has many water distribution systems that receive water from the New Orleans Sewerage and Water Board, including 8 systems designated as Public Water Systems by the Louisiana Department of Health and Hospitals (DHH). These systems often have cross connections within them that may create contamination and pressure hazards. All South conducted a survey of the existing systems to identify hazards that may exist due to these cross connections. This process involves a detailed study of existing maps, and a thorough understanding of water lines, valve operations, and backflow prevention. This study was performed in an effort to bring the Port of New Orleans' water system up to code compliance so that it meets the requirements of the Department of Health and Hospitals. The purpose of installing back flow preventers is to not only protect the Port's water system, but also to protect the City of New Orleans' water lines from hazardous materials such as chemicals and waste products should either system experience a decrease in pressure. In the event of a decrease in pressure within a water system, contaminants could potentially enter a potable water system. Back flow preventers mitigate the possibility of undesired materials entering into a water system that could potentially create a health hazard.

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	**Work for which Firm was Responsible:**
05/2020	$1,583,950	$283,950

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Blahut Road Water System Improvements (Phase II), *Livingston Parish, Louisiana* Livingston Parish Government Heather Crain, Grant Coordinator P.O. Box 1060 Livingston Parish, LA 70754 (225) 686-7280	All South Consulting Engineers provided professional design services, construction administration, and resident inspection for the Blahut Road Water System Improvements (Phase II) project. This project consisted of extending a waterline approximately 2900 feet. The extension included: • Boring a water line under the roadway in 3 different locations to connect houses to the system • Installing 2 fire hydrants • Installing water meter boxes and valves as necessary • Drainage ditch grading after the water line was installed under the ditch • Conducting water sampling • Terminating the line to allow for future expansion Construction Administration duties included preparation of construction documents including plans and specifications, assisting the Parish with bidding, and oversight of construction activities.  	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
10/2018	$109,982	$13,000

TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
St. Bernard DWRLF Waterline Replacement Project 2.2 *Arabi, Louisiana* St. Bernard Parish Government Department of Public Works Donald Bourgeois, Jr., Recovery 1125 E. St. Bernard Hwy. Chalmette, LA 70043 (504) 278-4313	The St. Bernard Waterline Project 2.2 scope involves performing topographic survey, design, development and implementation of plans and specifications for the construction/replacement of obsolete 6" diameter C.I. and/or AC water lines with new 8" diameter PVC/ductile iron water lines along the limits of LeBeau St., Alexander Ave., Schnell Dr., Benjamin St., Rose St. and Karl Dr. in Arabi, St. Bernard Parish. Following the topographic survey phase, the next task involved depicting the proposed 8" new water lines in the desired locations along those streets on engineering plans with proposed tie into existing lines at the end and intermediate crossing intersections. This entailed coordination with existing private utilities (gas, electric, telephone, etc.) in the ground and identifying any necessary relocations or conflicts with the new water line path between parish sewer and water utilities and resolution thereof to finalize the location and identify any existing crossing drainage structures that would require conflict box structure or relocation. The plans included providing new conduit sleeves by trenchless drilling method across existing streets to allow for easier connection of the new water service lines between each house system and new main line. Plans also included replacement of existing sidewalks, driveways, incidental pavement, or street pavement, etc. where necessary, along with all quantities, permitting and construction cost estimates to accommodate the new water line installation as required. This was done in conjunction with St. Bernard Parish engineering criteria and Digital Engineering to the public bid phase and construction management. 	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
10/2020	$2,708,841	$312,784

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	**Defendant:**	
1. IMC Construction	**Jefferson Parish**	**Jefferson Parish filed 3rd party demand to All South Consulting Engineers, LLC. Status is pending**
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

All South Consulting Engineers, LLC is a Limited Liability Corporation owned by Timothy Bonura, Jens J. Nielsen Jr., and Stephen Smith. Established in May 2004, All South is a multi-disciplinary firm that provides Civil and Structural Engineering, Program and Grant Management, Land and Hydrographic Surveying, Construction Management, and Disaster Management to federal, state, and municipal agencies, as well as, private clients throughout the Gulf Coast.

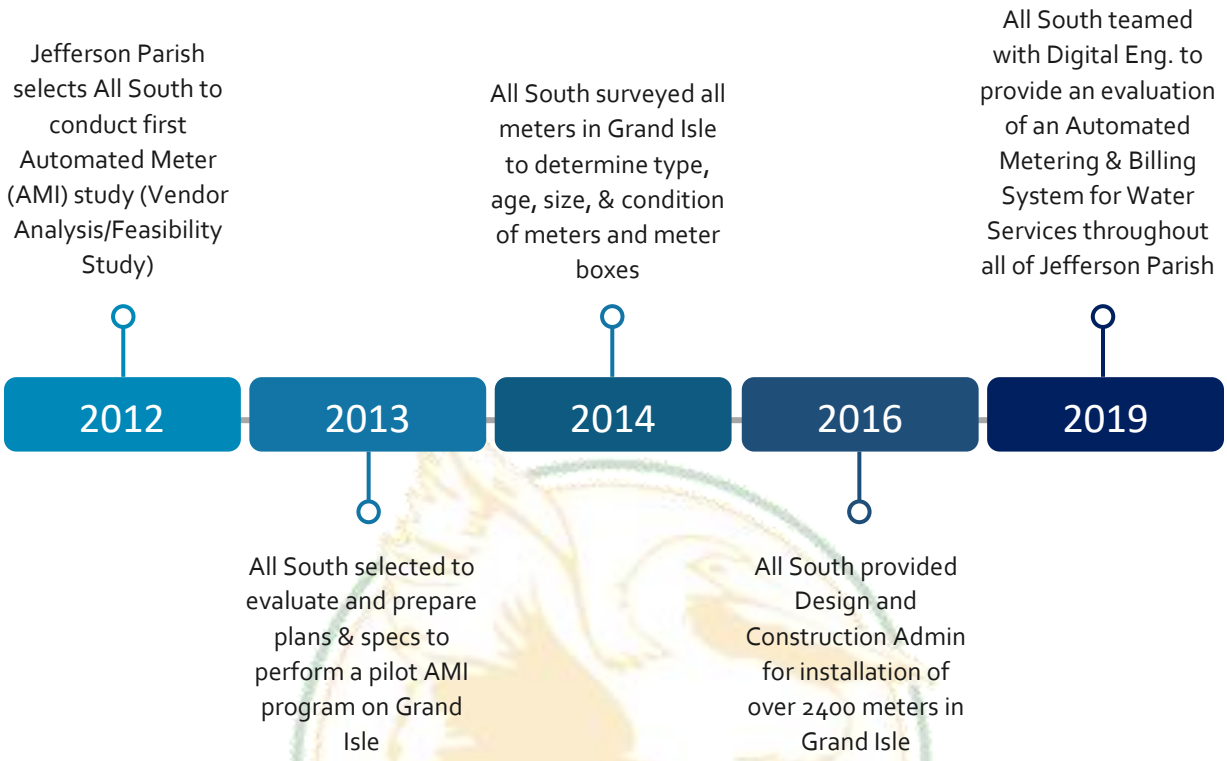
At All South, we design and supervise the construction of critical components of our local communities' infrastructure while keeping the environment in mind. Our experience, technology and resources yield the best, most efficient designs and our precise management ensures timely, cost-effective implementation. We understand the important role we play in each project and thus, uphold the highest standard of personal and professional integrity. We believe that clear and consistent communication is key to project success and have demonstrated this critical skill in a wide variety of projects.

PROFESSIONAL TRAINING AND EXPERIENCE

All South has substantial experience in the Civil Engineering, Project Management, and Land Surveying services pertinent to the scope of work outlined in the request for this proposal. This experience can be found in the resumes and project descriptions listed above.

All South's licensed professionals all obtain over 15 hours annually of continuing education along with several in house seminars. These courses are all designed to make sure our staff is up to date with all the latest construction materials and methods. All South maintains annual agreements with AutoCAD and Civil 3D to keep us up to date with the latest computer software. Each design professional researches the proper continuing education courses to help further their experience in the proper fields.

ALL SOUTH'S HISTORY WITH ADVANCED METERING INFRASTRUCTURE IN JEFFERSON PARISH



- In 2012, All South Consulting Engineers, LLC was selected to conduct the first Automated Meter (AMI) study for Jefferson Parish. The report outlined different types of automated meter reading systems and the associated costs for installation throughout the Parish. This report (Vendor Analysis/Feasibility Study) was completed in March of 2012.
- As a result of this report, the Parish contracted All South to evaluate and prepare plans and specifications to perform a pilot AMI program on Grand Isle. Since the Grand Isle system had recently been incorporated into the Jefferson Parish Department of Water's asset list, the Parish had very little as built or billing data on the Grand Isle water system. In 2013-2014, All South utilized the initial 2012 report to evaluate the Grand Isle system and identified the systems in the original report that would work in Grand Isle.
- At this time, All South also surveyed every meter in Grand Isle to determine the type, age, size, and condition of the meters and meter boxes. Once the survey was completed, a meter system was selected by Jefferson Parish, and through existing contracts, the Parish ordered the components for an automated system in Grand Isle.
- In 2016, All South prepared plans and specifications for the installation of this system. All South also provided construction administration and inspection services for the removal of the existing water meters and the installation of over 2400 meters in Grand Isle. Due to proprietary technology, All South contracted with ITRON to perform training for the contractor, Parish, and Construction Administrative personnel to meet the proprietary requirements. The project was constructed by June of 2017.
- In 2019, All South teamed with Digital Engineering and completed a study outlining the feasibility and benefits of a parish wide Automated Metering system. This report determined that utilizing an AMI system parish wide would reduce the cost of meter reading and increase efficiency in collecting water meter information.

FIRM CAPABILITIES

ENGINEERING DESIGN		
Water	**Coastal**	**Transportation**
• Water Modeling	• Land Development	• Traffic Counts
• Water Treatment	• Levees	• Traffic Impact Analysis
• Water Distribution Systems	• Wetland Development	• 3D Modeling
Drainage	• Marsh Re-creation	• Concrete Roadway
• Hydraulic/Hydrologic Studies	• Mitigation	• Asphalt Roadway
• Collection Systems	• Dredging	• Bridge Design
• Open Channels (Structural/Earthen)	**Flood Control**	**Recreational**
• Retention Ponds	• Embarkment Restoration	• Recreational Fields
• Detention Ponds	• Flood Gates	• Bicycle/ Pedestrian Paths
• Pump Stations	• T-Walls	• Master Plans
Sewer	• I-Walls	**Public Utilities Structural**
• Computer Modeling	• Earthen Levees	• Buildings
• Treatment Plants	• Structural Levees	• Retaining Walls
• Collection Systems	• Sheet Pile Structures	• Shallow and Deep Foundations
• Lift Stations	**Land Development**	• Existing Facility Structural Analysis
• Force Mains	• Civil Site Services	

SURVEYING	PROGRAM/ GRANT MANAGEMENT	CONSTRUCTION MANAGEMENT
• Boundary/ALTA-NSPS Survey	• Grant Writing and Management	• Bidding and Advertising
• Construction Survey	• Public Assistance	• Resident Project Representative
• Control Survey	• Application Development	• Document Control
• Data Processing	• Planning	• Cost Control
• Elevation Survey	• Cost Estimating	• Safety Review
• Expert Witness	• Reimbursements	• Field Engineering
• GIS Data Acquisition	• Scheduling	• Close Out Documentation
• HDS (High Definition) Laser Scanning	• Plan Review	• As Built Drawing Development
• Hydrographic Survey	• Document Control	
• Pipeline Survey	• Program Database Development	
• Topographic Survey	• Project Close Out	
• Right of Way	• Post Disaster Audits	

EQUIPMENT/SOFTWARE

- GPS (Global Positioning System)
- Leica GS-14 GPS Receivers
- AutoCAD Stations Civil 3D, Microstation, InRoads, CadConform
- 26’ Scully Aluminum Boat with Dual 150 h.p. motors
- 6’ Z-boat, remotely operated hydrographic survey boat
- Odom Hydrographic CV100 dual frequency Echosounder
- Getac X500 Laptop with Hypack Hydrographic Software
- Tritech Starfish 990F side scan sonar
- 14’ Aluminum Flat Boat
- G-882 Magnetometer
- Four wheel off road vehicles / marsh buggies
- Hypack – Hydrographic software
- LEICA Geo – GPS Software

SIZE OF FIRM

The All South staff includes 51 professionals driven to excellence and focused on our clients’ needs. We are made up of 12 Louisiana Licensed Professional Engineers, 2 Engineering Interns, 1 Professional Land Surveyor, and 2 former FEMA Public Assistance Program employees with substantial program and grant administration experience. Our staff also includes program managers, CADD technicians/draftsmen, grant specialist, field monitors and administrative support staff, all of which provide years of experience to help ensure that our work is exceptional.

CAPACITY FOR TIMELY COMPLETION

With 51 employees and ample resources, All South has more than enough capacity to meet any deadlines that the Parish requests. At All South, we understand the importance and value of time, and we take pride in completing our projects ahead of schedule. Our team is committed to and capable of meeting all schedules and deadlines that the Parish requests to ensure timely completion of all projects.

Additionally, we will utilize Team Gantt software for this project as a means of communication and accountability between consultants and Parish personnel. Team Gantt is an excellent project management tool designed to help create, manage, and finish projects on time and on budget. This software allows us to change start and end dates, reorder tasks, and adjust timelines seamlessly. It allows us to see every project update and document on a single page and quickly share them with both internal and external stakeholders. Team Gantt allows us to effectively manage resources, stay on budget, and ensure everyone is working but not overloaded. We can compare the original timeline projection with the actual timeline of the project with a baseline report. Parish personnel will be issued access to Team Gantt, so they can remain updated on the progress of the project at their own convenience.

PAST PERFORMANCE

Over the past 17 years, All South has developed an outstanding reputation as one of the Gulf South's leading Engineering and Surveying firms. Aside from our technical experience, All South stands out amongst competitors because of our unrivaled devotion to our clients and ability to meet their needs. All South has worked since inception on completing projects for Jefferson Parish including many projects similar to the one in this RFP. Our past performance within Jefferson Parish has given us a keen and nuanced understanding of the inner working of the various Parish departments, as well as the likings and needs of the Parish as a whole.

Our background has bred a sense of commitment, comradery, and the willingness to fight for our clients through every phase of a project. The satisfaction expressed by our clients can be directly accredited to not only our ability to deliver exceptional work that meets all contractual, time, and budgetary obligations, but also the genuine and lasting relationships we build throughout the process. As a direct result, our clients continue to choose All South. We believe this trend speaks very highly to our staff, our commitment, and our results. The staff members included in this proposal will employ these same levels of client devotion and satisfaction to Jefferson Parish.

LOCATION OF THE PRINCIPAL OFFICE

All South's home office is located at 652 Papworth Avenue, Metairie, Louisiana 70005.

ADVERSARIAL LEGAL PROCEEDINGS

Please refer to section M of this TEC Questionnaire.

PRIOR SUCCESSFUL COMPLETION

Please refer to the project descriptions listed above to see All South's prior successful completion of similar projects, as well as their respective verifiable references. All South has been working with the staff of Jefferson Parish since 2004 and has never received any negative comments or reviews from the staff. We have completed millions of dollars in construction of Jefferson Parish infrastructure and look forward to continuing this great relationship.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: _____ **Print Name:** Timothy P. Bonura, P.E.

Title: Managing Partner **Date:** March 16, 2021