



**PEC**  
PROFESSIONAL  
ENGINEERING  
CONSULTANTS  
CORPORATION

433 Metairie Road, Suite 313  
Metairie, LA 70005

P: 504.309.5360  
tarikol@pecla.com  
pecla.com

## JEFFERSON PARISH REQUEST FOR QUALIFICATIONS

### SOQ 21-008 PROFESSIONAL ENGINEERING SERVICES - DESIGN FOR THE REHABILITATION OF THE TRANSCONTINENTAL & BELLE LIFT STATION (E8-1)



**RES. NO. 137449**

PREPARED FOR

**JEFFERSON  
PARISH GOVERNMENT**



**MAY 26, 2021**



## TEC Professional Services Questionnaire

**A. Project Name and Advertisement Resolution Number:**

**SOQ 21-008 Professional Engineering Services - Design for the  
Rehabilitation of the Transcontinental & Belle Lift Station (E8-1)**

**Resolution No. 137449**

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



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433 Metairie Road, Suite 313  
Metairie, LA 70005  
504.309.5360

**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:**

**Tony Arikol, P.E., President**      **License No. 23244**  
**Ph: 504.309.5360**  
[tarikol@pecla.com](mailto:tarikol@pecla.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.**

**John H. Shires, P.E., Project Manager**      **License No. 26865**  
**504.309.5360**  
[jshires@pecla.com](mailto:jshires@pecla.com)

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

<u>4</u> Administrative	<u>      </u> Estimators	<u>      </u> Specification Writers
<u>      </u> Architects (Licensed)	<u>      </u> Geologists	<u>      </u> Structural Engineers
<u>      </u> Chemical Engineers	<u>      </u> Geotechnical Engineers	<u>      </u> Graduate Engineers
<u>7</u> Civil Engineers	<u>      </u> Interior Designers	<u>2</u> Project Managers
<u>10</u> Construction Inspectors	<u>      </u> Landscape Architects	<u>2</u> Clerical
<u>      </u> Ecologists	<u>      </u> Land Surveyor	<u>1</u> Grant/Funding Specialist
<u>      </u> Electrical Engineers	<u>      </u> Mechanical Engineers	<u>1</u> Sanitary Engineers
<u>3</u> Engineer Intern	<u>      </u> Environmental Engineers	
<u>      </u> Professional Land Surveyors		<b><u>30</u> TOTAL</b>

**F. Is this submittal by a JOINT-VENTURE? Please check YES        NO X**

**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.  
**Not Applicable**

2.  
**Not Applicable**

**H. Has this JOINT-VENTURE previously worked together? Please check:**  
YES \_\_\_\_\_ NO   X  

**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. All South Consulting Engineers 652 Papworth Avenue Metairie, LA 70005	Surveying	Yes
2. Gulf South Engineering and Testing, Inc. 15 Veterans Memorial Blvd. Kenner, LA 70062	Geotechnical	Yes
3. Pivotal Engineering, LLC 3925 N. I-10 Service Road West, Suite 109R Metairie, LA 70002	Electrical	Yes

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

  14

## 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 (ie. 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**

**Tony Arikol, P.E.**  
President

**Project Assignment:**

**Principal In Charge/Project Engineer**

**Name of Firm with which associated:**



**Professional Engineering  
Consultants Corporation**

**Year' experience with this Firm:**

31 Years

**Education: Degree(s)/Year/Specialization:**

B.S./1984/Civil Engineering

**Active registration: Year first registered/discipline:**

1989/Civil Engineering

**Other experience and qualifications relevant to the proposed Project:**

Mr. Arikol has over 30 years of design and project management experience in all aspects of civil and environmental engineering. He has led the detailed design of numerous wastewater projects even as the President of the company. He has performed studies and detailed design for over 75 (new or rehabilitated) wastewater pumping stations, both small and large treatment plants, force mains from 2 to 48 inches, and numerous (new and rehabilitated) collection lines ranging in size from 6 to 108 inches.

#### **RELEVANT PROJECT EXPERIENCE:**

- Principal in Charge, Design Engineer for the consolidation of **two existing pump stations (F8-4,F8-5) for Jefferson Parish, LA**. Project included complex traffic control, variable speed drive pumps and odor control due to proximity to neighborhood.
- Principal in Charge, Design Engineer for **14 mgd main wastewater pump station rehabilitation in. St. John Parish, LA**. Project included installation of **6 – 100hp variable speed drive pumps**.

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Tony Arikol, PE (continued)*

- Principal in Charge involved with two of the Baton Rouge Pump Station Upgrade Projects, which included the **rehabilitation of Pump Station Nos. 11, 99, 122, 138, 158, 169, 202, 210, and 254**. Also part of the scope of one of these Projects was the development of design standards for City/Parish pump stations.
- Project Manager and Principal in Charge responsible for the design and preparation of plans and specifications for the North Plant Wastewater Pump station Rehabilitation in Plaquemine, LA. **Project consisted of the mechanical and electrical rehabilitation for two 40 hp centrifugal dry pit pumps.**
- Principal in Charge and Project Manager responsible for the design of the rehabilitation of **three submersible lift Stations** for the City of Mandeville. Construction includes the replacement of electrical service and control panels, discharge piping between pumps and valve pit, pumps, motors and piping.
- Principal in Charge of complete engineering design, plans, specifications and construction administration for new force main network redirecting wastewater from Tallow Creek WWTP and Timber Branch No. 2 WWTP in St. Tammany Parish, LA to the existing treatment facility. The new force main network consolidated the discharges from five existing pump stations. As a result of discharging into a new force main network all five stations were rehabilitated including new electrical controls, pumps and piping and two treatment plants can be removed from service.
- Principal in Charge and Project Manager responsible for providing plans and specifications for an 8 mgd sewage effluent pump station for the City of Plaquemine. The station consisted of **three 250 hp vertical close coupled variable speed pumps.**
- Principal in Charge for Sewer Pump Station Rehabilitation for the City of Zachary. Comprised of the rehabilitation and upgrade of 14 sewer pump stations throughout the City's collection system.
- Principal and lead design engineer for a project that will provide a sewer collection system for an unsewered area on East Baton Rouge Parish's SSO Program (Hooper Road/ Sullivan sewer Capacity improvements). Mr. Arikol led the preliminary and final engineering of over 20,000 L.F. of force mains from 8" to 42". Specifically in scope are approximately 16,000 L.F. of 24" and 42" force mains to be installed along Hooper Road. Project had 4 directional drill line segments with the largest directional drill at 42" to the smallest at 8". Mr. Arikol worked closely with DPW officials to ensure timely and efficient new FM tie-ins to existing Booster pump lift stations along this route.
- Project Manager and Principal Design Engineer over four phases of wastewater system improvements for the City of St. Gabriel, Louisiana. Projects consisted of 3 new tertiary treatment facilities, new gravity sewer lines from 8 to 12 inches, over 25 new pump stations at a cost of over 10 million dollars. Phase I included funding jointly by RUS and the LCDBG program. This program has essentially increased the sewered residents in the community from less than 10% to over 95%, thereby dramatically improving the area's overall public health and welfare.

## TEC Professional Services Questionnaire

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title**

**Bianca G. Hillhouse, P.E.**  
Senior Design Engineer/Project Manager

**Project Assignment:**

**Project Manager**

**Name of Firm with which associated:**

**Professional Engineering  
Consultants Corporation**

**Year' experience with this Firm:**

24 Years

**Education: Degree(s)/Year/Specialization:**

B.S./1996/Civil Engineering

**Active registration: Year first registered/discipline:**

2001/Civil Engineering

**Other experience and qualifications relevant to the proposed Project:**

Ms. Hillhouse has led the design of a variety of pump stations including submersibles, self-priming wet well/dry well, extended shaft and rehabilitation of existing wet wells and related station instrumentation and internal mechanical layout of pump station buildings.

Ms. Hillhouse has proven herself as an excellent wastewater Project Manager as she has served in that capacity for PEC over the last 10 plus years on projects ranging in costs from hundreds of thousands to millions of dollars of construction.

## TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

*Bianca G. Hillhouse, PE (continued)*

### RELEVANT PROJECT EXPERIENCE:

- Design Engineer for a **6.5 MGD pump station and parallel 24-inch and 12-inch force mains extending 18,500 L.F.** to convey wastewater treatment plant effluent to a power generating facility approximately 3.5 miles away in the Washington Parish area.
- Design Engineer for the preparation of Facility Plan; survey of system; permitting; final design and plan preparation for construction of improvements to the City of Bogalusa's wastewater collection and treatment system including rehabilitation of **50 pump stations throughout the City, a 15 mgd pump station at the treatment plant, a 3.5 mile long 24-inch force main**, collection system rehabilitation, and a major expansion of the wastewater treatment plant. The 24 inch force main had several jack and bores of major street intersections and railroad crossings.
- Design Engineer (and Project Manager during Construction) for the East Baton Rouge City/Parish Pump Station 430 (Copper Mill) and 16" Force Main, which was constructed through a City of Zachary and City/Parish joint endeavor at a present capacity of 1.3 mgd. This pump station at its future capacity of **4.3 mgd will represent one of the major conveyance structures to deliver wastewater** from that upper part of the Parish to the North Wastewater Treatment Plant. Unique characteristics of this project involved design challenges associated with pumping into a City/Parish force main network.
- Project Manager/Design Engineer for Sewer Pump Station Rehabilitation for the City of Zachary. This project is currently under design and comprises the rehabilitation and upgrade of **14 sewer pump stations** throughout the City's collection system.
- Design Engineer involved with two of the East Baton Rouge City/Parish Pump Station Upgrade Projects, which included the rehabilitation of Pump Station Nos. 11, 99, 122, 138, 158, 169, 202, 210, and 254. Also part of the scope of one of these Projects was the development of design standards for City/Parish pump stations, through which Ms. Hillhouse gained valuable knowledge on City/Parish's design criteria development and application.
- Design Engineer for 8 submersible type pump stations for Phase III Wastewater System Improvements for the City of St. Gabriel. Unique challenges of this design included modeling a force main network for all the pump stations.
- Project Manager and Principal Design Engineer for the rehabilitation of 6 submersible type pump stations for the St. Martin Parish Water & Sewer Commission No. 1. This project included removal and replacement of existing electrical and mechanical equipment.
- Design Engineer and Project Manager for Sewer Pump Station Rehabilitation in St. Francisville, Louisiana. Ms. Hillhouse was responsible for the rehabilitation of 4 sewer pump stations (including pump replacement, wet well coating, installing bypass pumping box, and miscellaneous mechanical, civil, and electrical improvements).

## TEC Professional Services Questionnaire

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title**

**John H. Shires, P.E.**  
Senior Project Manager

**Project Assignment:**

**Project Engineer/Parish Liaison**

**Name of Firm with which associated:**

**Professional Engineering  
Consultants Corporation**

**Year' experience with this Firm:**

11 Years

**Education: Degree(s)/Year/Specialization:**

B.S./1991/Civil Engineering

**Active registration: Year first registered/discipline:**

1996/Civil Engineering

**Other experience and qualifications relevant to the proposed Project:**

Mr. Shires has over 25 years' experience planning, designing and managing infrastructure programs and individual projects. He has served as both a consultant and the Owner in the development of capital improvement programs and understands both perspectives in undertaking a program or project to meet the community's needs. Most recently he has served as the Project Manager for several wastewater improvement projects for the Cities of Mandeville, Kenner, New Orleans and St Tammany Parish.

Previously, as the Engineering Director of Public Works for St. Tammany Parish and the Public Works Director of the City of New Orleans, he directed the implementation of projects, monitored project estimates and budgets, coordinated consultants on infrastructure projects and managed multimillion dollar infrastructure programs to minimize the impact on the residents of the community and also stayed within the dollars budgeted for the program or project.

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*John H. Shires, PE (continued)*

As a consulting engineer, he was responsible for assisting in the overall design, construction and management of the City of Kenner's \$20 million Project Blueprint program which overhauled major thoroughfares and residential streets in the City. Project Blueprint project included major upgrades and rehabilitation to the submersible and self-priming sewer lift stations.

Mr. Shires' project management experience for Professional Engineering Consultants Corporation includes various projects as follows:

- **Consolidation of F8-4, F8-5 Lift Stations, Jefferson Parish, LA.** Project manager and design engineer in consolidating F8-4 and F8-5 sewer lift stations with re-design and build of new replacements to increase capacity. Includes traffic re-route during work, as well as gravity line re-location street panel demo and replace.
- **Rehabilitation of Lift Stations No. 22, 23, 33, City of Mandeville, LA.** Project Manager responsible for the rehabilitation of three existing wastewater pumping stations including all new mechanical and electrical components including wet well restoration and a bypass pumping plan in order to provide uninterrupted sewer flow during construction.
- **Wastewater Treatment System Consolidation Inter-Connections Phase 10, St. Tammany Parish Government.** Project Manager responsible for providing complete engineering design, plans and specifications, and construction administration to develop a new force main network redirecting wastewater from the Tallow Creek Wastewater Treatment Plant and Timber Branch No. 2 Wastewater Treatment Plant to the existing treatment facility currently owned and operated by Utilities, Inc. of Louisiana (UIL). The new force main network design consolidated the discharges from five existing pump stations.
- **Wastewater Treatment Plant Improvements; Treatment Tank #1, City of Covington, LA.** Project Manager responsible for the restoration and repairs of the Treatment Tank #1 at the City of Covington Wastewater Treatment Plant (WWTP), built in the 1990s. Scope of work included rehabilitation/replacement of various structural and mechanical parts of the tank. A construction sequence was developed in order to keep plant operational during construction. A major element of proposed work was developing a procedure for cleaning and removal of bio solids. Removal and transport to an approved DEQ disposal site was a prerequisite of the program as identified in the specifications.
- **Airline Park Blvd Rehabilitation and Drainage, Jefferson Parish, LA.** Project Manager and Design Engineer responsible for preparing plans and specifications for the construction of improvements to Airline Park Boulevard (500 Ft. North of Camphor to West Napoleon Ave). Major tasks of the project consist of the following items: removal of existing concrete roadway, re-grading of existing base material with additional base material, as necessary, replacement of concrete roadway, replacement of concrete aprons, installation of ADA ramps, adjustments to existing manholes, replacement of catch basins & laterals, replacement of a mainline drainage trunk line, and installation of a new 120 CFS pump station at the West Napoleon Avenue canal.

## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

#### Name & Title

**David A. Colson, P.E.**  
Senior Design Engineer/Project Manager

#### Project Assignment:

**Design Engineer**

#### Name of Firm with which associated:



**Professional Engineering  
Consultants Corporation**

#### Year' experience with this Firm:

29 Years

#### Education: Degree(s)/Year/Specialization:

B.S./1987/Civil Engineering

#### Active registration: Year first registered/discipline:

1995/Civil Engineering

#### Other experience and qualifications relevant to the proposed Project:

Mr. Colson has over 25 years of varied engineering experience with emphasis on wastewater collection, pumping and treatment systems design. He has led PEC's project efforts as either the Project Manager in charge or Lead Design Engineer for numerous wastewater improvement projects. Mr. Colson is also an experienced structural designer for both stormwater and wastewater pump stations. He is currently working alongside proposed Project Manager John Shires on three Jefferson Parish projects.

#### RELEVANT PROJECT EXPERIENCE:

- Design Engineer for the consolidation of **two existing pump stations (F8-4,F8-5) for Jefferson Parish, LA**. Project included complex traffic control, variable speed drive pumps and odor control due to proximity to neighborhood.
- Project Manager/Design Engineer for the Raw Water Pump Station in Amelia, LA. Mr. Colson was responsible for the design of **(3) new submersible centrifugal wastewater pumps (20 HP, 1200 gpm @ 45 ft. TDH each)**, new wet well with access hatch, new valve pit with access hatch, new station piping, new valves, new bypass connection, new fittings, maintenance of existing bypass pumping, new electrical service, and new pump control panels. Also included in the project are the connection of two existing force mains (10" dia. each) and an existing 12" dia. gravity sanity sewer main to the new wet well as well as the connection of the new station discharge to an existing force main (10" dia.).

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*David A. Colson, PE (continued)*

- SSO Program Central Consolidated Pump Stations-Lead Design engineer for PEC on **9 pump stations** and detailed mechanical, civil, structural design and quantity estimation, and permit coordination efforts for those stations that PEC was responsible for.
- Sewer Collection Line and Pump Station for East Baton Rouge Parish. Completed work on 5 major projects as prime or subconsultant estimated at over \$100 million dollars.
- The design of Phase I Wastewater System Improvements for the City of St. Gabriel. These improvements included a new wastewater treatment plant, collection system, and pumping stations.
- The design of Phase I Wastewater System Improvements for the Town of Maringouin. These improvements included upgrading the existing wastewater treatment plant, new collection system and new pumping stations.
- The design of Phase II Improvements to the Town of Maringouin Wastewater Collection System including new pumping stations and collection lines.
- Project Manager/Design Engineer for SSO North Gravity Basin Collection System Upgrade which included gravity upgrade of approximately 27,183 L.F. of new 8" dia. through 48" dia. gravity wastewater collection main for the City of Baton Rouge/Parish of East Baton Rouge. Included in the work are major FM tie-ins to existing pump stations 42 and 59, bypass pumping, and jack and bores of 27" and 48" diameter mains.
- Project Manager/Design Engineer for the O'Neal Lane City/Parish Gravity/Force Main Sewer Upgrade Improvements which includes the removal and replacement of over 30,000 L.F. of existing gravity sewer main with new 8" dia. through 24" diameter gravity sewer main and over 75,800 L.F. of 6 through 42 inch force main in highly urbanized areas of City. Mr. Colson is leading preparation of final plans and specifications.
- Drainage Engineer for the Airline Park Blvd. Rehabilitation in Jefferson Parish. Responsible for preparing plans and specifications for the construction of improvements to Airline Park Boulevard (500 Ft. North of Camphor to West Napoleon Ave). Major tasks of the project consist of the following items: removal of existing concrete roadway, re-grading of existing base material with additional base material, as necessary, replacement of concrete roadway, replacement of concrete aprons, installation of ADA ramps, adjustments to existing manholes, replacement of catch basins & laterals, replacement of a mainline drainage trunk line, and installation of a new 120 CFS pump station at the West Napoleon Avenue canal.
- Drainage Engineer for the Westwego No. 1 Pump Station in Jefferson Parish. Responsible for improvements to Westwego No. 1 pump station. Project requirements are to demolish and remove old pump station building, salvage old pump and drive engine, demolish and remove the pump operator building to foundation slab, vertical fuel tanks and ancillary piping, demolish and replace bar screens at bridge deck, install 100 cfs. Vertical axial flow/propeller pump, motor, and generator with fuel tank and connect station to Parish SCADA System, install pump discharge pipe to connect with existing and elevated walkway to access all generators.

## TEC Professional Services Questionnaire

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title**

**Kevin A. Gravois, P.E.**  
Senior Vice President

**Project Assignment:**

**Senior Project Engineer: Design and Utility Relocation**

**Name of Firm with which associated:**

**Professional Engineering  
Consultants Corporation**

**Year' experience with this Firm:**

39 Years

**Education: Degree(s)/Year/Specialization:**

B.S./1981/Agricultural Engineering

**Active registration: Year first registered/discipline:**

1987/Agricultural Engineering, 1993/Civil Engineering, 1993/Environmental Engineering

**Other experience and qualifications relevant to the proposed Project:**

Mr. Gravois has been employed with PEC for the past 39 years. He performs civil engineering project management and design for municipal clients. Mr. Gravois has experience in many infrastructure project areas with specific expertise in utilities design. His expertise does include excellent knowledge in the design of sanitary collection sewers, sewer pump stations and force mains.

Mr. Gravois has also been involved with many utility relocation projects and the project management of projects during construction which has equipped him with a vast knowledge of practical constructability issues for large underground construction in urban areas.

## TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

*Kevin A. Gravois, PE (continued)*

### RELEVANT PROJECT EXPERIENCE:

- **West Baton Rouge Parish – Lyndale Sewer Improvements.** Project Manager for the design of an 8" PVC gravity wastewater collection system including 6" PVC service lines, clean outs, connections to residential sewer service and abandonment of existing low pressure simplex pumps and low pressure force main network for residences.
- **West Baton Rouge Parish- LCDBG Sewer Improvements to Red Eye and Red Hat Lane.** Project Manager/Design Engineer responsible for project design, plan preparation and construction administration for the improvements to the sewer collection system which included 2 new pump stations and a new 8" gravity sewer main.
- **West Baton Rouge Parish – Lobdell Sewer Improvements.** Project Engineer responsible for the design of an 8", 10" and 12" gravity sewer system with 48" diameter concrete manholes, 6" wyes and service lines, roadway replacement, two (2) self-priming pumping stations, and the abandonment of existing septic tanks.
- **Town of Livonia – New Collection System.** Principal in Charge and Lead Design Engineer for wastewater collection system to serve Richfield Subdivision. Projects included 8" gravity collection lines and a new pump station and six inch force main.
- **Pointe Coupee Parish Police Jury – LA Hwy. 10 Utility Relocation.** Project Manager for the installation of a new 2" steel gas main and connections to an existing 2" steel gas main for the new LA Hwy 10 intersection at the new Mississippi River Bridge. Work also included the installation of a 4" PVC force main and the abandonment of a 4" and 10" force main.
- **City of Baker- Groom Road Utility Relocation.** Principal in Charge/Project Engineer responsible for relocating water and gas lines to the new ROW due to the widening of Groom road.
- **City of Baker- Hwy. 964 Utility Relocation (US Hwy-61 to Heck Young Road).** Principal in Charge/Project Engineer responsible for the installation of new water and gas system and the abandonment and or/ removal and disposal of existing water and gas systems in conjunction with DOTD roadway improvements along LA Hwy. No. 964.
- **Town of St. Francisville – US Hwy. 61 Gas, Water & Sewer Utility Relocation.** Principal in Charge/Project Engineer responsible for the design and plan preparation for the relocation of approximately 6 miles of water and gas lines.

# 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:**

**Consolidation of F8-4, F8-5 lift stations**

Mr. Sid Trouard, P.E.  
Jefferson Parish (SCIP)  
Department of Sewerage  
1221 Elmwood Park Boulevard  
Suite 906 (Yenni Building)  
Jefferson, LA 70123  
504-736-638d

**Nature of Firm's Responsibility:**

Prepare preliminary engineering report, plans and specifications for project to increase capacity. Parish accepted recommended solution of consolidating existing F8-4 and F8-5 lift stations with a single replacement. Project included hydraulic analysis, new submersible duplex lift station, new structure, decommission and removal of old equipment, complex traffic re-route during work, odor control, as well as gravity line re-location, street panel demo and replacement, and variable speed drive pumps.

**Completion Date (Actual or estimated):**

May 2021 (E) Design

**Estimated Cost:**

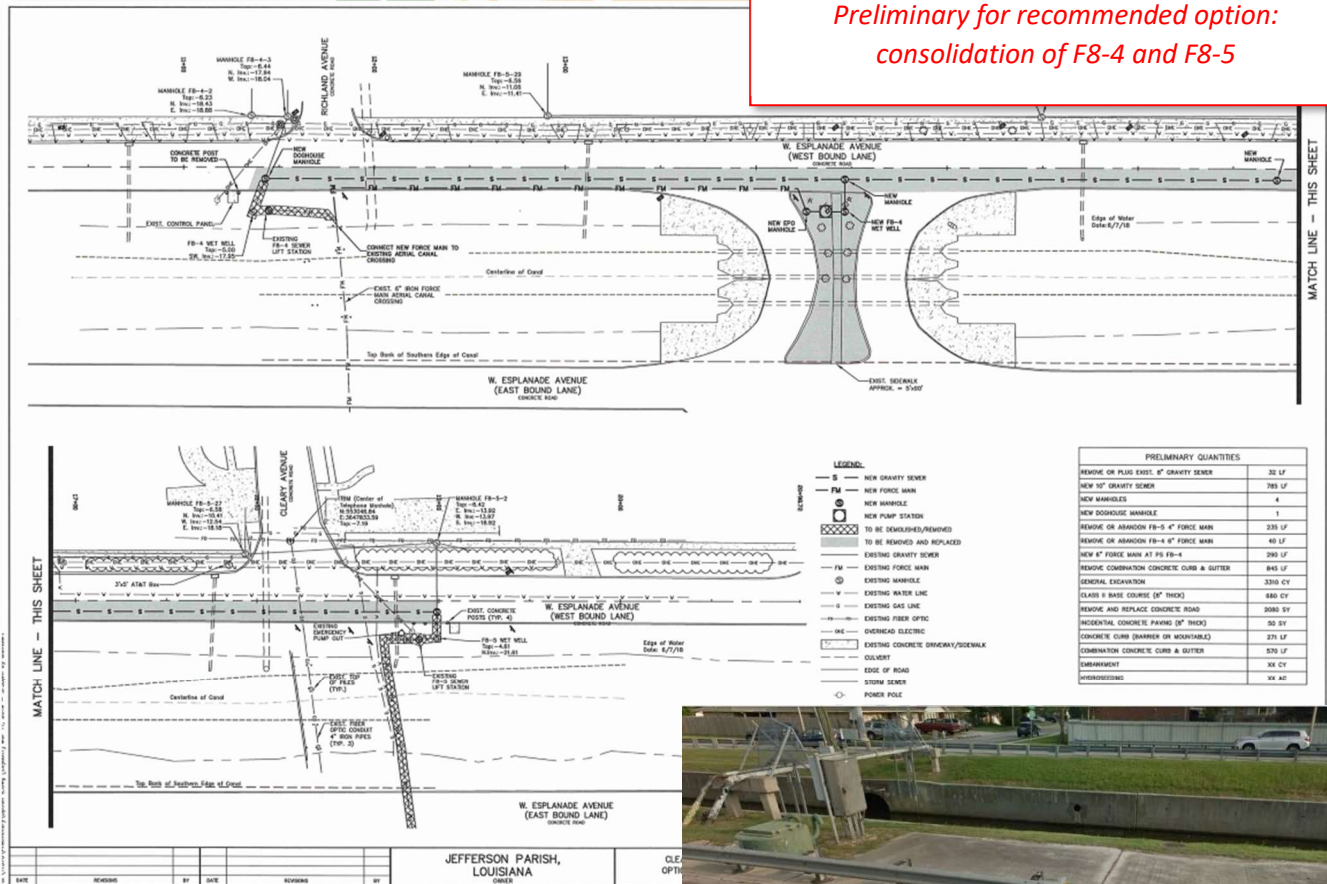
**Entire Project:**

\$2.4 Million Construction

**Work for which Firm was Responsible:**

90%

*Preliminary for recommended option:  
consolidation of F8-4 and F8-5*



## TEC Professional Services Questionnaire

### PROJECT NO. 2

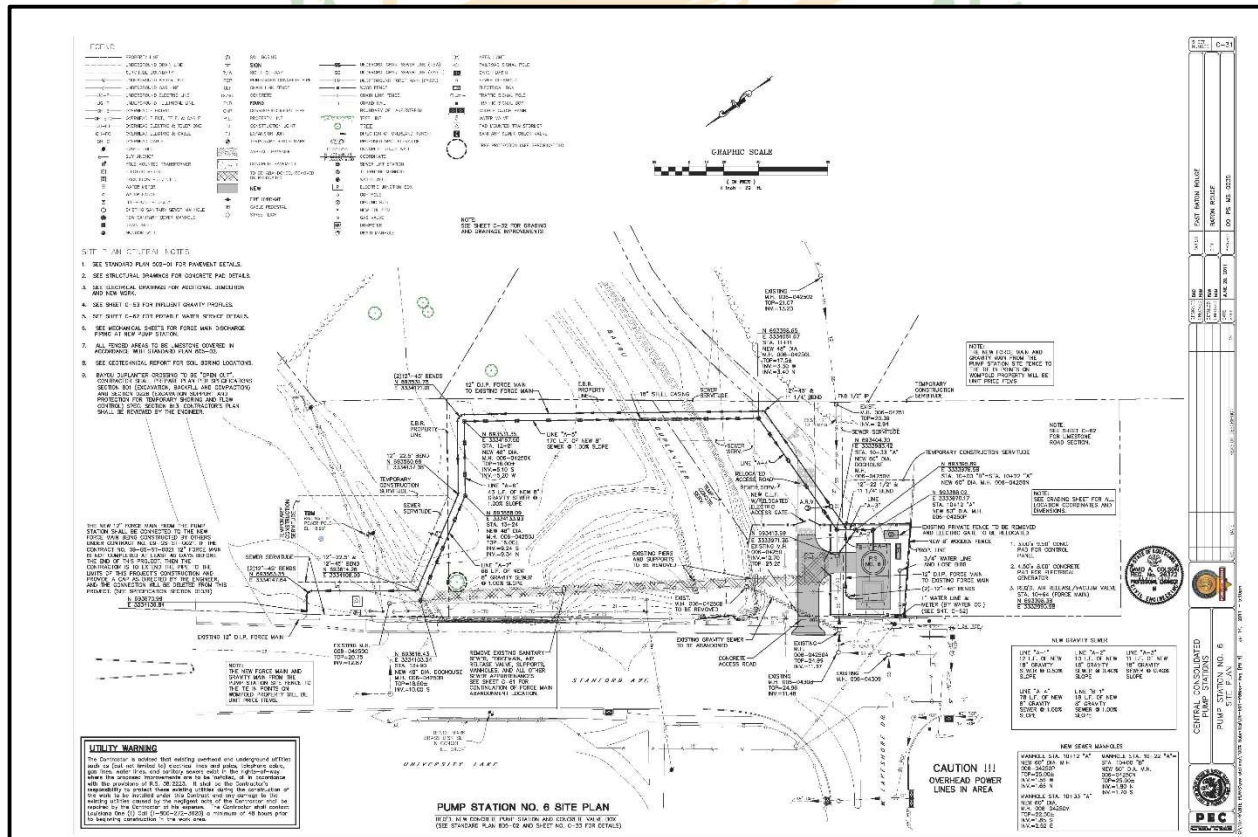
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Main Wastewater Pump Station Rehabilitation</b> <b>St. John Parish, LA</b>  Jaclyn Hotard, Parish President 1801 W. Airline Highway LaPlace, LA 70068 985.652.9569	PEC was retained by St. John the Baptist Parish to completely rehabilitate the main wastewater lift station. Including removing and replacing existing submersible and self-priming pumps with five new self-priming pumps each capable of pumping 2500 gpm. Project also included a sophisticated bypass plan, concrete rehabilitation and a variable frequency drive control system.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2020 (A)	\$1.2 Million	90%



# TEC Professional Services Questionnaire

## PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Central Consolidation Pump Stations</b>  <b>Pump Stations 2,3,4,5,6,7,10 and 91 (South Downs)</b>  <b>East Baton Rouge Parish, LA</b></p> <p>East Baton Rouge Parish  P.O. Box 1471  Baton Rouge, LA 70821  225.389.3000</p>	<p>As a sub-consultant, PEC was responsible for project design, plan preparation and construction administration for the replacement of 8 existing dry pit and submersible sewer pump stations and one new sewer pump station with pump stations ranging in size from 1.7 MGD to 46 MGD including new standby generators. All but 1 station had variable speed motors and 4 stations included electrical control buildings. Project includes 2,075 lf of sewer force main, 12" to 36" diameter with over 1,100 lf of directional drill of 12" sewer force main.</p> <p>One of the key elements of the project was the abandonment, closure and removal of the existing pump stations at 9 of these sites. The team had to keep existing stations in operation as flows were transferred to the new stations. Most of the existing stations had pump station structures, pumps and electrical controls that were abandoned, removed or salvaged.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
January 2015 (A) Construction	Entire Project:	Work for which Firm was Responsible:
	\$13 Million Construction	100%



## TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Delta and Carville Wastewater Treatment Plant New Effluent Force Main and Pump Station</b> <b>St. Gabriel, LA</b>  Bianca Hillhouse, P.E.  City of St. Gabriel Lionel Johnson, Jr. 225.642.9600	<p><b>Project:</b> Bring the City of St. Gabriel's Carville and Delta Wastewater Treatment Plants into compliance with updated DEQ requirements.</p> <p><b>Design Considerations (Delta):</b> Improvements of the Delta WWTP required new, 800 gpm capacity submersible <b>effluent pump station</b> and approximately 6,625 L.F. (8" Dia. PVC/10" Dia. HDPE) force main to tie into Hunt Correctional's existing 12" Sewer Effluent Force Main discharging to the Mississippi River.</p> <p><b>Specific site issue:</b> Increased head conditions at the Hunt Pump Station required coordination with the State Department of Corrections, and the design and construction of an upgrade to their self-primer, 1,000 gpm effluent pump station.</p> <p>Cost of this portion of the project, including the modifications to Hunt's pump station, the new force main, and the effluent pump station is \$1.7 million</p> <p><b>Design Considerations (Carville):</b> Improvement to the Carville WWTP required design and construction of a new 600 gpm capacity submersible <b>effluent pump station</b> and approximately 9,050 L.F. (8" Dia. PVC/10" Dia. HDPE) force main. The FM then tied into Olin Chlor Alkali Product's existing 20" Force Main discharging to the Mississippi River.</p> <p>Cost for this portion of the project, including the new force main, and the effluent pump station is \$1.3 million.</p> <p>We also coordinated and assisted the City of St Gabriel in securing a Louisiana Department of Environmental Quality State Revolving Loan to fund the project.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Dec 2020 (A) (construction)	\$ 3 Million (E) Construction	80 %



Location of Carville Force Main, one of two WWTP's in this upgrade project, St. Gabriel

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>  <b>Rehabilitation of Lift Station No. 22, Lift Station No. 23 and Lift Station No. 33</b> <b>Mandeville, LA</b>  Courtney Dickerson, P.E. City of Mandeville 1011 N. Causeway Blvd., Suite 19 Mandeville, LA 70471 985.624.5001	<b>Nature of Firm's Responsibility:</b>  The City of Mandeville contracted PEC to design the rehabilitation of three lift stations. (Lift Station No. 22, Lift Station No. 23, and Lift Station No. 33). Construction included the replacement of electrical service and control panels; discharge piping between pumps and valve pit, pumps, motors, and suction piping. Construction will also include new wet well coating, new pumps, rails, structural modifications, controls, bypass pumping, tie-in to existing force main, and site restoration. Work was designed so that flows would be uninterrupted during construction.	
<b>Completion Date (Actual or estimated):</b>  April 2016 (A) Construction	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>  \$680,000	<b>Work for which Firm was Responsible:</b>  100%



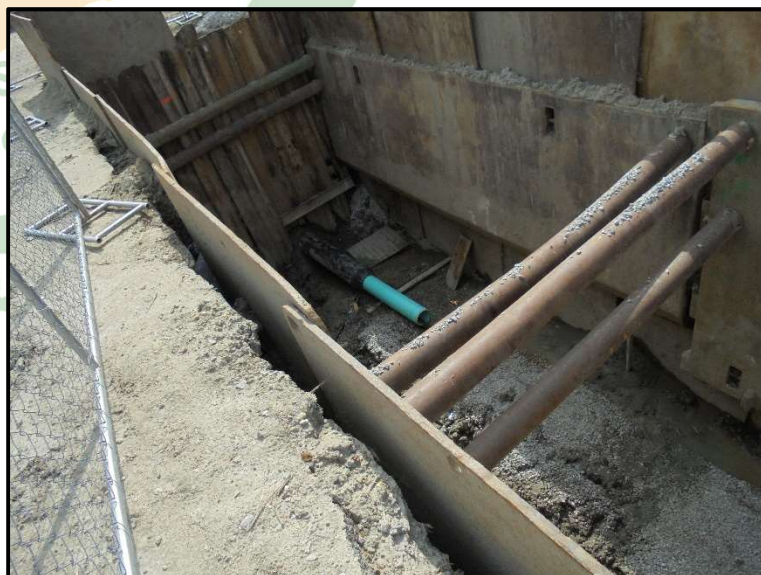
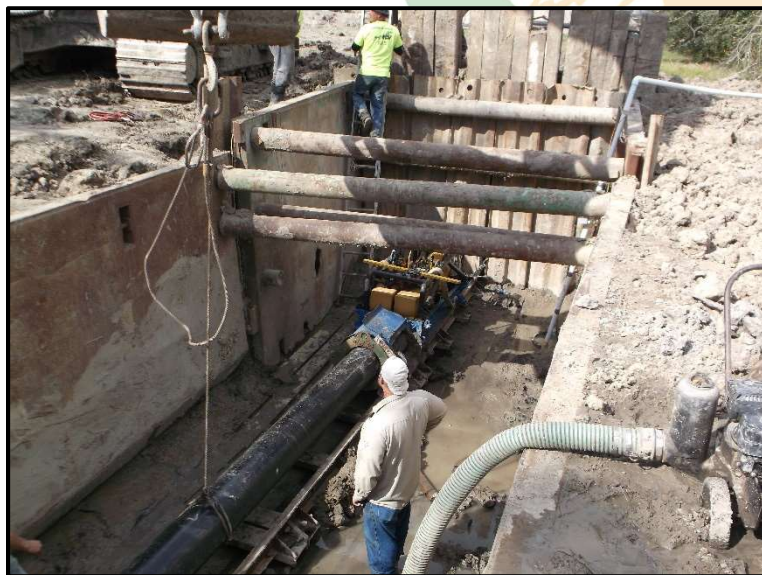
## TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Sanitary Sewer Collection Improvements- Sewer Pump Station Rehabilitation Zachary, LA</b>  City of Zachary P.O. Box 310 Zachary, LA 70791 225.654.0287	<p>PEC was retained to prepare a Sewer Master Plan and Environmental Information Document (EID) for the City to assist in the future planning requirements and based on the recommendations of the plan has prepared design documents to upgrade and rehabilitate the entire wastewater collection system.</p> <p>One of the initial key tasks performed was to evaluate existing wastewater pump stations and key sewer line facilities in the City to determine available capacity and the ability to meet current and anticipated future flow conditions. The projects were designed as Contracts 1-7.</p> <p>Contract 7 of the overall sewer rehabilitation program, which is currently under construction comprises the rehabilitation <b>and upgrade of 14 sewer pump stations</b> throughout the City's collection system.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 (A)	\$1,300,000	100%

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>South Wastewater Treatment Plant Raw Water Pump Station Conversion Plaquemine, LA</b>  City of Plaquemine P.O. Box 675 Plaquemine, LA 70765 225.687.3116	<p>PEC was contracted to prepare plans and specifications and provided construction administration services for the upgrade of an existing 8 mgd sewage pump station. The design entailed innovative complete electrical and mechanical replacement using existing tankage resulting in a significant cost savings. The new station consists of three 250 hp and one 35 hp vertical close coupled pumps operated by vfds. The station discharges thru a 4 mile long 20 inch diameter force main. Project was designed in order to maintain flow at all times.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 (A) (Construction)	\$1,200,000	100%

## TEC Professional Services Questionnaire

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Lobdell Sewer Improvements</b> <b>West Baton Rouge Parish, LA</b>  Riley Berthelot, Parish President West Baton Rouge Parish 880 North Alexander Avenue Port Allen, LA 70767 225.383.4755	PEC was retained to design 8", 10" and 12" gravity sewer system with 48" diameter concrete manholes, 6" wyes and service lines, roadway replacement, two (2) self-priming pumping stations, the abandonment of existing septic tanks, connection to house sewer piping and includes all associated appurtenances.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Oct. 2017 (A) Construction	\$3.7 Million Construction	100%



*Construction of Lobdell Sewer Improvements*

## TEC Professional Services Questionnaire

### PROJECT NO. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Raw Wastewater Pump Station Amelia, LA</b>  St. Mary Water and Sewer Commission No. 1 P.O. Box 309 Amelia, LA 70360	The St. Mary Parish Water & Sewer Commission contracted PEC to design a new triplex submersible wastewater treatment facility influent pump station to replace an existing pump station made inoperable due to a wet well structural collapse. The design and construction includes three (3) new submersible centrifugal wastewater pumps (20 HP, 1200 gpm @ 45 ft. TDH each), new wet well with access hatch, new valve pit with access hatch, new station piping, new valves, new bypass connection, new fittings, maintenance of existing bypass pumping, new electrical service, and new pump control panels. Also included in the project are the connection of two existing force mains (10" dia. each) and an existing 12" dia. gravity sanitary sewer main to the new wet well as well as the connection of the new station discharge to an existing force main (10" dia.). Construction of the new pump station is made difficult due to its vicinity to the existing damaged pump station and a deep surface water impoundment.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016 (A) (Construction	\$332,500 (Construction)	100%



## TEC Professional Services Questionnaire

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>  <b>North Wastewater Treatment Plant Pump Station Rehabilitation</b> <b>Plaquemine, LA</b>  City of Plaquemine P.O. Box 675 Plaquemine, LA 70765 225.687.3116	<b>Nature of Firm's Responsibility:</b>  Firm was responsible for preparing plans and specifications, bidding and performing construction administration services for the mechanical and electrical rehabilitation for two 40 hp centrifuged dry pit pumps which serve as the influent station to the wastewater treatment plant.  As the main pump station into the plant the station rehabilitation had to be designed in order to maintain an uninterrupted flow during construction.	
<b>Completion Date (Actual or estimated):</b>  2015 (A)	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>  \$80,000	<b>Work for which Firm was Responsible:</b>  100%



## TEC Professional Services Questionnaire

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

<b>Parties:</b>		<b>Status/Result of Case</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
1.  NONE	  NONE	  NONE
2.		
3.		
4.		



## TEC Professional Services Questionnaire

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

For more than 50 years, Professional Engineering Consultants Corporation (PEC), has provided wastewater design services to both small and large communities.

**PEC has outstanding experience in the rehabilitation and replacement of existing pump stations similar to the requirements of this project.**

**In the last eight years, PEC has been involved in the design of over 100 wastewater pump station replacements or rehabilitations.**

PEC will be assisted by three subconsultants with extensive experience in Jefferson Parish in their fields of expertise. Subconsultants include: All South Consulting Engineers for surveying, Gulf Coast Engineering and Testing for geotechnical services and Pivotal Engineering for electrical engineering services.



### **1. PROFESSIONAL TRAINING AND EXPERIENCE**

Scopes of work similar to this project's requirements involved:

- **Replacement of existing pumps, motors, instrumentation and control panels** for constant, multi speed and variable speed dry pit and submersible pumps for duplex, triplex, and quadraplex which included equipment evaluation, sizing and analysis reports, manufacturer coordination, assistance in startup and operator training.
- **Hydraulic Analysis of Existing Pump Station Flows** to determine required upgrades to eliminate sanitary sewer overflows, whereas forming hydraulic calculations included field measurements, analyzing flow monitoring and sanitary sewer evaluation & survey (SSES) data.
- **Force Main Routing & Hydraulic Analysis** for a variety of system conditions which required system curve calculations & pump curve selections to best fit the project.
- **Construction Administration and inspection services during the installation and construction of a diversity of pump station types**, configurations, and environmental conditions including coordination with the Owner and Contractor in specifications for maintenance of operations during the construction process, proper contractor close out and acceptance of completed station for its completeness and operability.

As stated, one of PEC's core competences is wastewater planning and design services. **Our firm uses the same engineering staff to focus and specialize on the elements of wastewater design** so our key personnel are totally knowledgeable of the latest technology and equipment available for wastewater facilities. Key strengths of our wastewater team are:

- PEC staff for this project has a long history of providing wastewater pumping design services-including but not limited to, civil site, pump station tie-in's, mechanical piping layouts in pump stations, pump selection and design, utility relocations, coordination with local utilities, impact on existing community and services, surveying and property plat preparation, and necessary permits for constructions, with key agencies such as DOTD, DEQ, EPA, COE, etc.
- The staff's expertise in wastewater pump station design hydraulics focuses on optimizing the most cost effective design to ensure the least capital and O&M costs for the proposed station.
- John Shires, PE, will serve as the Parish Liaison on this project. He will be supported by PEC's appropriate planning and design personnel for this specific project. Mr. Shires has led and managed numerous public works projects in his former roles as DPW and Chief Engineer for the City of New Orleans and St. Tammany Parish. He will ensure the Parish staff is aware of all activities and progress on this project.
- Tony Arikol, PE, who is to be the PEC Principal In Charge, has been involved in rehabilitation and hydraulic design projects of both small submersible stations and large dry pit stations such as a 73 mgd Station (210 mgd ultimate capacity) which was 72 feet deep with a 108 inch influent line.

## TEC Professional Services Questionnaire

### **N. continued.**

- Bianca Hillhouse, PE, the Project Manager and primary mechanical design engineer on this project, has been involved with over 20 major pump station designs and associated force main designs in the last five years.
- David Colson, PE, will be the assistant project design engineer. He has recently led the design of the replacement of 9 major pump stations in the East Baton Rouge Parish SSO program including all aspects of replacement design of the existing stations. He has in-depth experience in wastewater pump station design, and cost estimating related to existing pump station performance with respect to extremes of low flow and excessive peak flow conditions.

PEC has **averaged annually a minimum of 10-15 new wastewater projects** that met DHH Sewerage Standard requirements in order to be approved for construction. In the last 10 years this represents over 100 projects that met Louisiana DHH and Louisiana DEQ/EPA permitting and plan review requirements. The firm prepares all its wastewater plans and specifications to ensure its compliance with established Codes, procedures and policies, design criteria, and regulatory guidelines. Because of the volume of work PEC does in the wastewater field for its large base of municipal community clients, PEC wastewater Engineers have established a clear understanding of DHH, DEQ and EPA requirements for preparation of plans and specifications. Prior to our submission of plans to Louisiana DHH, a constructability review is also conducted along with a review of compliance with required design criteria, and potential conflicts with code compliance.



## **2. SIZE OF FIRM RELATED TO NUMBER OF PERSONNEL TO MEET PROJECT REQUIREMENTS**

An experienced multi-disciplined **project team will be assembled based on the size, time schedule, and scope of the project.** A project manager is assigned to be the point of contact with the Client and is the responsible individual to ensure the team meets milestones, scheduled completion dates, and the project's proposed design and construction budget.

The Project Manager is responsible for maintaining coordination and communication with the Client. Responsiveness and clear communications are the cornerstone of the PEC Project Manager's management approach.

PEC has the **necessary in-house personnel available** for undertaking and implementing this project as soon as the Parish authorizes it. We can commit whatever wastewater staff is necessary to ensure proper project evaluation, project design, drafting of technical plans, development of technical specifications & construction administration.

PEC has on staff 8 PE's, 3 EI's and numerous other support personnel with excellent wastewater credentials in pump stations and related pipeline interconnections. The same key senior design staff has been a wastewater project team for over 7 years together.

## **3.CAPACITY FOR THE TIMELY COMPLETION**

### Staffing Capacity/Current Workload

**PEC has the necessary in-house personnel available for undertaking and implementing this project as soon as the Parish authorizes it. We can commit whatever staff is necessary to ensure timely completion.**

- The firm's work load is at a level in which we have excellent capacity to complete this project in the requested timeframe.
- PEC and especially its key locally based staff for this project have a long history (over 30 years) of providing engineering and administrative services.
- PEC has a staff of over 25 technical and administrative personnel of which 8 are PE's and 3 are Engineering Interns. PEC has on staff a grant administrator who stays current on all guidelines and requirements and can assist the project engineers as needed on grant related projects.

# TEC Professional Services Questionnaire

### Quality Control/Meeting Deadlines

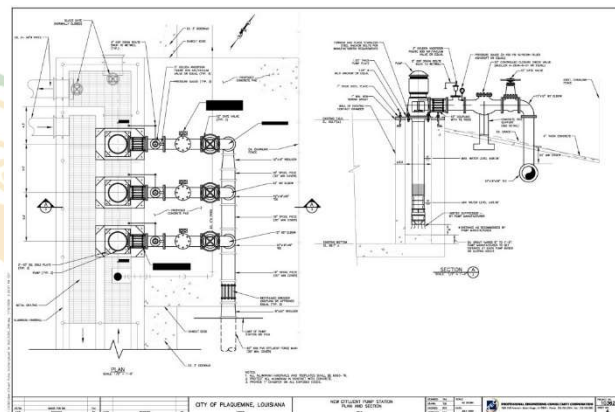
**Meeting deadlines and project milestones is one of the key reasons for PEC's high client retention.** A key to timely completion of work is having:

- experienced project managers that understand the tasks required
- enough technical and administrative resources available to meet the project requirements when key effort of completion is required
- coordination with the client to obtain critical background information and input related to the client's needs and project objectives.

**PEC has the professional, technical, and administrative staff and dedication to meet schedules and deadlines imposed by its clients or governmental agencies.** The firm has a bi-weekly staff meeting with key personnel to:

- check on project progress and meeting the contract deadline
- address need for additional resources
- review key design decisions or project concerns
- distribute appropriate work elements to appropriate staff

PEC makes a point to maintain **consistent communication with the client** to inform them of project status and any concerns related to meeting the project schedule both in design and in construction.



#### 4. PAST PERFORMANCE BY THE PERSONS AND FIRM ON SIMILAR PROJECTS

**Key Staff Personnel Experience with Similar or Other Projects Comparable to the Proposed Project**

Bianca Hillhouse, P.E., who is to be the **Project Manager and primary design engineer** on this project, **has led the design efforts on a diversity of pump stations of a range of sizes and complex force main routing.** As an example, she was the design engineer and project manager for the construction of the East Baton Parish's Pump Station 430 and a 16 inch force main extension (Coppermill Pump Station) and the recent City of Zachary pump station hydraulic relief program (3 pump stations-1560 gpm, 900 gpm and 550 gpm) which was coordinated with the SSO program and City Parish officials. Ms. Hillhouse has also worked on the rehabilitation of East Baton Rouge Parish pump station Nos. 11, 99, 122, 138, 158, 169, 202, 210, and 254 under separate contracts.

Tony Arikol, P.E. who is to be the **Principal in Charge on this project** is a hands on Principal that serves as a Project Manager and Project Engineer for the firm. He is very familiar with pump station design having been involved with the design and/or construction of over 75 wastewater pump stations in his career. He has excellent expertise and experience applicable to this project's design requirements.

Kevin Gravois, P.E. has been **involved with many utility relocation projects** and the **project management of projects during construction** which has equipped him with a vast knowledge of practical constructability issues for large underground construction in urban areas.

### ***Recent Firm Experience with Similar or Other Projects Comparable to the Proposed Project***

PEC has designed numerous pump stations for both large municipalities and small communities. Included in the scope of past pump station upgrade projects engineered by PEC, was a variety of pump station types and capacities (as large as 130 mgd) where PEC performed the structural design and supervised the Electrical and Instrumentation design. We are in the final stages of design and plan preparation for the F8-4, F8-5 consolidation for Jefferson Parish.

During the recent City of Zachary's major wastewater infrastructure program **PEC performed the process/mechanical, structural, civil, electrical, and instrumentation design on 14 pump stations with capacities from 200 gpm to over 1000 gpm which included capacity increases and pump station modifications to meet increased flow capacities or provided hydraulic relief to other pump stations in the system with the diversion of flows.** These projects had provisions for phasing the construction to keep the existing system working during construction.

## TEC Professional Services Questionnaire

### **N. continued.**

Additionally, PEC was one of the major participating firms in the East Baton Rouge Parish's last large wastewater infrastructure program. Its experience in that program included broad range projects such as large gravity interceptor design, major pump station rehabilitation, and offline storage tanks.

#### **Capability to Complete Projects without having Major Construction Cost Escalations/Overruns**

PEC has a proven track record with its clients for completing projects without having major construction cost escalations or overruns. The **success of minimizing cost overruns and escalations starts with preparing complete designs that cover the necessary scope of work** from the initial bidding of the project throughout the project's construction.

PEC specializes in public **infrastructure design and is continuously in the process of preparing plans, specifications, construction documents and construction cost estimates** for public bid averaging from 75 to 150 bid openings per year.



#### **Quality of Projects Previously Undertaken**

It is PEC's striving for **excellence and dedication that guarantees quality projects**. PEC believes a quality project involves the following:

- **Understanding** the client's **needs** and intent
- Preparing a project that **meets the financial capabilities** and desires of the project.
- Providing **responsive and accurate information** to the owner during the project's development
- At completion of construction, the **project is what the client expected**.

### **5. LOCATION OF PRINCIPAL OFFICE WHERE WORK IS TO BE PERFORMED**

#### **Work Location:**

PEC will be performing the work for this project at its office located in Metairie, at 433 Metairie Road, Suite 313, Metairie, LA 70005. PEC also has offices in Baton Rouge (main office) and New Orleans, LA. John Shires, our proposed Parish Liaison for this project lives in the Metro New Orleans area. Mr. Shires will be available as necessary to discuss project progress and any concerns. Each of our subconsultants have offices either in Jefferson Parish or its immediate vicinity where services for this project will be performed.

#### **Local Knowledge:**

PEC currently has five projects with Jefferson Parish:

- 1.) Consolidation of F8-4, F8-5 Lift Stations
- 2.) Southbound Manhattan Blvd. Widening Project
- 3.) Nicolle Blvd. Bike Path and Recreational Pathway
- 4.) Leo Kerner Bike Path
- 5.) Destrehan Avenue Bike Path

PEC has also completed wastewater and water projects in several Jefferson Parish communities including Marrero and Kenner.

### **6. ADVERSARIAL LEGAL PROCEEDINGS WITH JEFFERSON PARISH**

On projects PEC has previously performed or is currently performing for the Parish, PEC has had no legal proceedings, time delays, cost overruns, or design inadequacies experienced with the Parish.

## TEC Professional Services Questionnaire

N. continued.

### 7. PRIOR SUCCESSFUL COMPLETION OF PROJECTS

PEC has an outstanding track record in the design of new or rehabilitated/modified pump stations and associated force mains that meet the needs of this RFQ. The firm has a diversity of experience in all types of wastewater pump stations of varying capacities as well as the design of complex force main network systems.

A successful project will meet the Owner's expectations on budget, time frame of completion, and quality of the final pump station operation and performance. PEC prides itself on repeat business and client retention. The firm is presently recognized by many of its public clients as their civil engineers of record or, one of its "go to" consultants. As a result of this dedication to quality, PEC has enjoyed a stable and continuous growth and has become recognized throughout the State of Louisiana for its expertise in all phases of public works planning and development.



**TEC Professional Services Questionnaire**

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

Signature: Tony Arikol Print Name: Tony Arikol, P.E.  
Title: President Date: 5/26/2021



*Professional Engineering Services Related to the Design for the Rehabilitation of the  
Transcontinental & Belle Lift Station (E8-1)  
(Resolution No. 137449)*

**SUBCONSULTANT:**

***ALL SOUTH CONSULTING  
ENGINEERS***

## TEC Professional Services Questionnaire

### A. Project Name and Advertisement Resolution Number:

SOQ to Provide Engineering Services for Rehabilitation of the Transcontinental & Belle Lift Station (E8-1) - Resolution 137449

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



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](mailto: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.

John Teegarden, P.L.S.  
Vice President, Survey Division Manager  
504-322-2783  
[jteegarden@ascellc.com](mailto:jteegarden@ascellc.com)

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

<u>5</u>	Administrative	<u>0</u>	Estimators	<u>1</u>	Specification Writers
<u>0</u>	Architects (Licensed)	<u>0</u>	Geologists	<u>3</u>	Structural Engineers
<u>0</u>	Chemical Engineers	<u>0</u>	Geotechnical Engineers	<u>1</u>	Graduate Engineers
<u>9</u>	Civil Engineers	<u>0</u>	Interior Designers	<u>3</u>	Project Managers
<u>9</u>	Construction Inspectors	<u>0</u>	Landscape Architects	<u>2</u>	Clerical
<u>0</u>	Ecologists	<u>0</u>	Land Surveyor	<u>6</u>	Grant/Funding Specialist
<u>0</u>	Electrical Engineers	<u>0</u>	Mechanical Engineers	<u>0</u>	Sanitary Engineers
<u>3</u>	Engineer Intern	<u>0</u>	Environmental Engineers		
<u>1</u>	Professional Land Surveyor			<u>54</u>	<b>TOTAL</b>

### 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.		
2.		
3.		

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

6 \_\_\_\_\_

## TEC Professional Services Questionnaire

<b>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.</b>
<b>PROFESSIONAL IN CHARGE OF PROJECT:</b>
<b>Name &amp; Title:</b>
John Teegarden, PLS Vice President, Survey Division Manager
<b>Project Assignment:</b>
Senior Professional Land Surveyor, Survey Project Manager
<b>Name of Firm with which associated:</b>
All South Consulting Engineers, LLC
<b>Years' experience with this Firm:</b>
6
<b>Education: Degree(s)/Year/Specialization:</b>
International Correspondence School, Surveying and Mapping Course (2-year course completed)
<b>Active registration: Year first registered/discipline:</b>
1990/ Professional Land Surveyor/ Louisiana License No. 4635 1999/ Professional Land Surveyor/ Mississippi License No. 2782
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>John S. Teegarden, PLS joined All South Consulting Engineers, LLC in 2014 as Vice President and Survey Division Manager. Mr. Teegarden has extensive experience in all aspects of land surveying including boundary, elevation, topographic, hydrographic, industrial, and construction projects.</p> <p>Over his 38-year career, he has participated in or directed surveys for a wide variety of clientele including local municipal and governmental agencies, state agencies, and federal agencies (including the U.S. Army Corps of Engineers). In his career, he has served as a Field Party Chief, Field Supervisor, CAD Technician, Project Manager, and Division Manager.</p> <p>Mr. Teegarden's varied project experience includes high precision survey control, single and multibeam hydrographic surveys, large boundary surveys, surveys for public right-of-way taking, topographic route surveys, mapping of subsurface utilities based on the markings provided by a subsurface utility engineering firm, coastal restoration projects, laser scanning surveys and GPS project surveys, to name just a few. This experience includes over 20 years' experience in directing and performing hydrographic surveys. He has executed and/or supervised hydrographic surveying projects throughout Coastal Louisiana, including Breton Sound, the Barataria Basin, and the lower Mississippi River area including Southeast Pass, Tiger Pass, and Baptiste Collette.</p> <p><b>Blimp Road Sewer Phases 1 &amp; 2 Houma Terrebonne Airport Commission, Houma, Louisiana</b>          Mr. Teegarden conducted a topographic survey of the route for a new gravity sewer line using GPS and robotic total station. He processed files for import into AutoCAD Civil 3D and used the data to create a topographic survey map.</p> <p><b>Silt and Debris Measurement in Jefferson Parish Canals Jefferson Parish, Louisiana</b></p>

## **TEC Professional Services Questionnaire**

Mr. Teegarden is providing topographic and bathymetric survey services for the Jefferson Parish Drainage Department. We are surveying canals to determine the amount of silt build up utilizing All South's Z-Boat, a six-foot-long remotely controlled vessel equipped with GPS, a dual-frequency echosounder and a laptop to record the data.

### **Geisenheimer Canal Topographic Survey *Jefferson Parish, Louisiana***

Mr. Teegarden led our survey teams in the preparation of a topographic survey that included the location of the Geisenheimer Canal Box Canal and the adjoining surface features from the north curb line of Airline Highway into the fairway of Metairie Country Club adjacent to Airline Highway.

### **Woodvine Ditch Topographic Survey *Jefferson Parish, Louisiana***

Mr. Teegarden is providing a topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.

### **Loumor Outfall Ditch Topographic Survey *Jefferson Parish, Louisiana***

Mr. Teegarden and the All South survey staff provided a topographic survey of the route that follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.

### **Tudor and Tallulah Drainage Analysis *River Ridge, Jefferson Parish, Louisiana***

Mr. Teegarden provided topographic survey services and collected field data for the Tudor and Tallulah drainage project. This work included picking up horizontal and vertical data in the drainage area, including locating the multiple subsurface utilities that could affect the project. Cost \$60,000

### **Canal No. 10 Underground Utility Locations *Jefferson Parish, Louisiana***

Mr. Teegarden provided topographic survey services for the West Esplanade at Canal 10 Drainage Improvements project. His responsibilities included a topographic survey of canal crossing, location of underground utilities located by subsurface utility engineering contractor and added to an existing topographic survey.

### **Lake Cataouatche Pump Station Topographic Survey *Jefferson Parish, Louisiana***

Mr. Teegarden and his team prepared a topographic survey at the site of the current Lake Cataouatche pump station located on Churchill Farms. The survey area adjacent to the existing pump station will be the site for a new pump station under design. The survey included cross sections of the site and the adjacent canal along with the location of improvements in the project area.

### **Upper LA 45 Basin Tidal Surge Protection *Lafitte, Louisiana***

Mr. Teegarden and his team conducted topographic, magnetometer and bathymetric surveys for the design of a tidal surge protection system for the Upper LA 45 basin in the Lafitte Levee District. The team surveyed three routes, one along Bayou Barataria for the design of a floodwall and two possible routes for a rear protection levee through swamp and marsh areas. RTK GPS, Robotic Total stations, remotely operated Z-Boat and a Marine Magnetics Sea-Spy magnetometer were used for this project. The survey deliverables included plan and profile sheets and plotted cross sections.

### **Rosethorne Path – LA 45 *Lafitte, Louisiana***

Mr. Teegarden and his team conducted a topographic survey along the route of a proposed walk and bike path along LA Hwy 45 in the Lafitte area. RTK GPS and robotic total stations were used to located improvements, utilities and take cross sections along the survey route.

### **40 Arpent Canal Levee Walk and Cycling Path and Pedestrian Bridge *St. Bernard Parish, Louisiana***

Mr. Teegarden and his team conducted a topographic survey along the 40 Arpent Levee in St. Bernard parish for the design of a walk and bike path. RTK GPS was used to locate improvement and take cross sections along the proposed survey route. The area surveyed began at the St. Bernard/Orleans parish line and continued southeasterly to Paris Road.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Taylor Casteigne, LSI Land Surveyor Intern, Survey Supervisor
<b>Project Assignment:</b>
Land Surveyor Intern
<b>Name of Firm with which associated:</b>
All South Consulting Engineers, LLC
<b>Years' experience with this Firm:</b>
1
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 2019 / Geomatics
<b>Active registration: Year first registered/discipline:</b>
2021/ Land Surveyor Intern/ Louisiana License No. 0000714
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Casteigne is a graduate from Nicholls State University with a degree in Geomatics. After graduation, he served as party chief and AutoCAD draftsman doing a variety of surveys for both roadways and pump stations in the state of Louisiana. He is well versed in the latest in surveying equipment technology to ensure a fast and accurate project survey.</p> <p><b>Riverbend Oxidation Pond Jefferson Parish, Louisiana</b>          Mr. Casteigne performed full topographic survey and CAD services, including locating all subsurface utilities in accordance with department standards for the design and construction of improvements for the Riverbend Oxidation Pond Pump Station and the installation of a new sewer force main. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. Contours are then generated showing lines of constant elevation. The budget for the project was tracked daily ensuring that the survey was completed on time and under budget. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion.</p> <p><b>Jefferson Parish Juvenile Services Survey Metairie, Louisiana</b>          Mr. Casteigne performed full topographic survey and CAD services, including locating all subsurface utilities in accordance with department standards for the design and construction of facility improvements. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was</p>

## **TEC Professional Services Questionnaire**

in a useable format it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. Contours are then generated showing lines of constant elevation. The budget for the project was tracked daily ensuring that the survey was completed on time and under budget. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion.

### ***Savanne Rd Drainage Improvements Houma, Louisiana***

Mr. Casteigne performed full boundary surveying services for the acquisition of a servitude by Terrebonne Parish for drainage Improvements. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD where a boundary map could be prepared.

### ***St. Louis Canal Rd Houma, Louisiana***

Mr. Casteigne performed full boundary surveying services for the acquisition of a servitude by Terrebonne Parish for drainage Improvements. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD and have a boundary map prepared.

### ***Bayou Barataria Waterline Crossing Lafitte, Louisiana***

Mr. Casteigne performed full topographic and hydrographic survey services including data collection, data processing, data management, CAD, and project budget oversight. This includes performing the necessary field work for the survey, then processing the data into a fieldbook file. Once the data was in a fieldbook it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface, Plan and Profile sheets could be generated along with cross sections across Bayou Barataria. This project was done at the request of Jefferson Parish for the installation of a new waterline running along Rosethourne Rd then crossing Bayou Barataria.

### ***Avoca Island Topographic Survey St. Mary Parish, Louisiana***

Mr. Casteigne performed full survey services including data collection, data processing, data management, CAD, and project budget oversight. This includes performing the necessary field work for the survey, then processing the data into a fieldbook file. Once the data was in a fieldbook it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. This project was done at the request of Avoca Island for drainage improvements to be made on the island.

### ***Lisa Park Development Houma, Louisiana***

Mr. Casteigne performed full survey services including data collection, data processing, data management, CAD, and project budget oversight for improvements to be made in the open space at Lisa Park Elementary School. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. Contours are then generated showing lines of constant elevation. The budget for the project was tracked daily ensuring that the survey was completed on time and under budget. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Lyle Langley Survey Party Chief
<b>Project Assignment:</b>
Survey Party Chief
<b>Name of Firm with which associated:</b>
All South Consulting Engineers, LLC
<b>Years' experience with this Firm:</b>
6
<b>Education: Degree(s)/Year/Specialization:</b>
SOWELA Technical Community College/ 2012/ Drafting
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Langley has worked on a wide variety of surveying projects and assisted in the integration of a robotic total station and our hydrographic software to track the hydrographic boat in areas where GPS was not feasible. He has the necessary training to use hydrographic equipment, HDS Laser Scanner and is familiar with Hypack hydrographic software. His work experience includes hydrographic surveys using a rod and tape, a total station, GPS and single beam echo sounders to record the data, using side scan sonar to identify underwater obstructions and using a magnetometer to sweep for pipelines and other ferrous metal debris. He has supervised field crews on many topographic and boundary surveys. His current and previous projects include, but not limited to:</p> <p><b>Blimp Road Sewer Phases 1 &amp; 2 Houma, Terrebonne Parish, Louisiana</b>          Mr. Langley provided topographic survey services for the Blimp Road Sewer Phases 1 &amp; 2 Improvements for the Houma Terrebonne Airport Commission. Phase 1 of this project included the installation of approximately 2,540' of gravity sewer lines. Phase 2 of this project included the installation of approximately 1,400 of gravity sewer lines. These lines are 8" in diameter, consistent with the Terrebonne Parish Consolidated Government standards for such improvements.</p> <p><b>Extension of the Lift Station F1-01 Force Main Chalmette, St. Bernard Parish, Louisiana</b>          Extension of the Lift Station F1-01 Force Main from its current terminus at or near SBPG Gravity Manhole F01-0043 to a new terminus at or near SBPG Gravity Manhole F01-31 east of Guereengeh Canal and the Palms Casino Truck Stop. This survey extends from right of way to right of way of St. Bernard Highway and included a complete topographic survey with sub-surface utility locations.</p>

## **TEC Professional Services Questionnaire**

### **Silt and Debris Measurement in Jefferson Parish Canals, Jefferson Parish, Louisiana**

Mr. Langley has provided topographic and bathymetric survey services for the Jefferson Parish Drainage Department. His tasks on this project included providing cross sections, topography and bathymetric surveys.

### **Canal No. 10 Underground Utility Locations, Jefferson Parish, Louisiana**

Mr. Langley located underground utilities as marked by a Subsurface Utility Engineer and added to an existing topographic survey.

### **Lake Cataouatche Pump Station Topographic Survey, Jefferson Parish, Louisiana**

Mr. Langley and his team prepared a topographic survey at the site of the current Lake Cataouatche pump station located on Churchill Farms. The survey area adjacent to the existing pump station will be the site for a new pump station under design. The survey included cross sections of the site and the adjacent canal along with the location of improvements in the project area.

### **Bayou Country Sports Complex Houma, Terrebonne Parish, Louisiana**

Mr. Langley is providing construction layout services for the construction of baseball fields, softball fields, soccer fields and improvements for the sports complex.

### **Woodvine Ditch Topographic Survey Jefferson Parish, Louisiana**

Mr. Langley and his crew provided a topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.

### **Loumor Outfall Ditch Topographic Survey Jefferson Parish, Louisiana**

Mr. Langley provided a topographic survey of the route that follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.

### **40 Arpent Canal Levee Walk and Cycling Path and Pedestrian Bridge St. Bernard Parish, Louisiana**

Mr. Langley assisted with the topographic survey along the 40 Arpent Levee in St. Bernard parish for the design of a walk and bike path. RTK GPS was used to locate improvement and take cross sections along the proposed survey route. The area surveyed began at the St. Bernard/Orleans parish line and continued southeasterly to Paris Road.

### **Reach K and L Mitigation Lafourche Parish, Louisiana**

Mr. Langley conducted both bathymetric and topographic survey of the Reach K Mitigation area. This 40-acre marsh creation area consists of a network of oilfield canals and shallow ponds. This survey also required the location of various underground utilities and pipelines. Equipment used on this project was RTK GPS, a remotely controlled hydrographic boat and a magnetometer.

### **Bayou Terre Aux Bouefs Ridge Restoration Armoring St. Bernard Parish, Louisiana**

Mr. Langley and his team provided the topographic and hydrographic survey data. The survey also included sections of Bayou Lery and Bayou Gentilly. Overbank cross sections and a hydrographic survey were conducted to aid in the design of bank armoring to help stem the further erosion of the existing shoreline. Transects were also ran across approximately 10,000 acres of additional marshland. A magnetometer survey was also conducted to identify submerged pipelines.

### **Upper LA 45 Basin Tidal Surge Protection Lafitte, Jefferson Parish, Louisiana**

Mr. Langley is currently working on a topographic survey of a proposed route for approximately three miles of new levee and floodwalls to provide protection against tidal surge in the upper area of Lafitte, Louisiana along LA Hwy. 45.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
William Lambert Survey Party Chief
<b>Project Assignment:</b>
Survey Party Chief
<b>Name of Firm with which associated:</b>
All South Consulting Engineers, LLC
<b>Years' experience with this Firm:</b>
.5
<b>Education: Degree(s)/Year/Specialization:</b>
High School Diploma
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Lambert joined All South Consulting Engineers, LLC in April of 2021. He has over 15 years of experience in land surveying and has served as an instrument man to a survey party chief. He has performed topographic surveys, right-of-way, ALTAs, as-builts, stakeouts, boundaries, and elevation certificates, using Leica robotic instrument and Trimble GPS. He has also performed construction layout using Trimble Robotics and GPS and served as a survey helper in industrial surveys.</p> <p><b>LALD Lower Lafitte Drainage Improvements</b> <i>Jefferson Parish, Louisiana</i> Mr. Lambert has completed a full topographic survey of approximately 5500ft of streets for the purpose of improving the existing drainage in the area. This included establishing project control and temporary benchmarks and supervising the survey crew ensuring that the project was completed based on the scope of work in an efficient manner.</p> <p><b>Marrero St. Pump Station</b> <i>Jefferson Parish, Louisiana</i> Mr. Lambert has completed a full topographic survey of the Marrero St. Pump Station for the purpose of making improvements to the pump station. This included establishing project control and temporary benchmarks and supervising the survey crew ensuring that the project was completed based on the scope of work in an efficient manner.</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Austin Bowman Survey Technician
<b>Project Assignment:</b>
Survey Technician
<b>Name of Firm with which associated:</b>
All South Consulting Engineers, LLC
<b>Years' experience with this Firm:</b>
.5
<b>Education: Degree(s)/Year/Specialization:</b>
A.A.S. HVAC NCCER Level Graduate/ 2020/ Nunez Community College
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Bowman joined All South Consulting Engineers, LLC in March of 2021 as a survey assistant. He received an Associate of Applied Science degree in HVAC NCCER Level from Nunez Community College in 2020. Since joining All-South, Mr. Bowman has assisted in full topographic and hydrographic surveys.</p> <p><b>Bayou Barataria Waterline Crossing Lafitte, Louisiana</b> This project was done at the request of Jefferson Parish for the installation of a new waterline running along Rosethourne Rd then crossing Bayou Barataria. For this project, Mr. Bowman assisted the Survey Party Chief in collecting all the field data necessary for the completion of the survey. This project included full topographic and hydrographic survey services including data collection, data processing, data management, CAD, and project budget oversight. This includes performing the necessary field work for the survey, then processing the data into a fieldbook file. Once the data was in a fieldbook it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface, Plan and Profile sheets could be generated along with cross sections across Bayou Barataria.</p> <p><b>Jefferson Parish Fire Training Center Jefferson Parish, Louisiana</b> Mr. Bowman assisted in the completion of a topographic survey of the Jefferson Parish Fire Training Center for the purpose improvements to be made to the facility. This included establishing project control and collecting field data for the project.</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>  Jackson Sorrells <i>Senior CADD Technician, Drafting Supervisor</i>
<b>Project Assignment:</b>  CADD Technician III/ Draftsman
<b>Name of Firm with which associated:</b>  All South Consulting Engineers, LLC
<b>Years' experience with this Firm:</b>  4
<b>Education: Degree(s)/Year/Specialization:</b>  Associate of Applied Science / 2017/ Civil Construction and Engineering Technology Associate of Applied Science / 2011/ Drafting and Design
<b>Active registration: Year first registered/discipline:</b>  <div style="text-align: center; opacity: 0.5; font-size: 2em;">  </div>
<b>Other experience and qualifications relevant to the proposed Project:</b> <p>Mr. Sorrells joined the All South team after 8 years in the Land Surveying industry. His experience includes AutoCAD C3D which he utilizes in survey and design projects that include topographic, boundary, route corridor surveys, hydrographic surveys, ALTAs, field data input, plan and profile sheets, import/export of survey points, proposed design corridors, and volume calculations. Mr. Sorrells coordinates with field crews, drafters, engineers, and clients to generate AutoCAD C3D drawings and plan sheet sets from the beginning of a project to final stamped plans. His current and previous projects include, but not limited to:</p> <p><b>Russell St Pump Station River Ridge, Louisiana</b>          Mr. Sorrells prepared proposed location of a new pump station to be installed by Ralph J. Bunche Elementary School (Russell St. Pump Station) in Jefferson Parish, Louisiana. These plans included an overall site plan, plan view and a typical section. Coordination with the project engineer to properly show the existing utilities, railroad and rights-of-way was very important in this project.</p> <p><b>Fire Station No. 12 Jefferson, LA</b>          Mr. Sorrells prepared the design plans for the construction of a new fire station for Jefferson Parish. The plans included new site plan, structural design, details, grading plan, drainage plan and utility plan. Mr. Sorrells coordinated with the project engineer and sub-contractors to conform and finalize plans.</p> <p><b>Westgate Drainage Kenner, Louisiana</b></p>

## **TEC Professional Services Questionnaire**

Mr. Sorrells prepared the Record Drawings for this project. Although coming in late to this project Mr. Sorrells developed the record drawings for this project by coordinating with the project engineer, inspectors and sub-contractors. Ensuring that the record drawings incorporated all as-built conditions of this project.

### **South Kenner Avenue Rehabilitation (Between Live Oak Blvd. and Chenevert Rd.) Jefferson Parish, Louisiana**

Mr. Sorrells provided drafting support for this project, including plan sheets, cross sections, and existing subsurface pipe networks. Showing the existing roadway and existing sidewalk, which were to be developed in a wider and improved asphalt roadway with new sidewalks and subsurface drainage. This project conformed to the Jefferson Parish criteria.

### **Lake Trail Drive Drainage Improvements Kenner, Louisiana**

Mr. Sorrells prepared the topographic and right-of-way drawings for Lake Trail Drive, from its intersection with the northern right-of-way of Bruin Drive, north to the southern right-of-way of West Esplanade Avenue; approx. 2880 LF. The drawings included elevation shots of Lake Trail Drive, right-of-way to right-of-way for the creation of cross sections every 50'. He also created a 3D surface, a centerline profile, and underground utility profiles for this project.

### **Plaquemines Parish Government Complex Plaquemines Parish, LA**

Mr. Sorrells prepared the design plans for the renovations to the Plaquemines Parish Government pavilion. The plans included the new entry patio slab, entry sidewalk, HVAC equipment slab, sections and details. Mr. Sorrells coordinated with the project engineer and sub-contractors to conform and finalize the plans.

### **FEMA Recovery Roads Program (Viavant – Lake Catherine – Venetian Isles) New Orleans, Louisiana**

Mr. Sorrells prepared plan surveys for multiple streets in the Viavant-Lake Catherine area. These surveys depicted the elevations of the streets to show centerline and gutter line profiles, the surface created showed the many imperfections and potholing in the streets. Included in this area were Catherine St, Victoria St, Reynes St., and America St. This project was approximately 1800' and included invert depths for the drainage, sewerage and water underground utilities.

### **FEMA Submerged Road Program (Audubon, Black Pearl, East Carrollton, Uptown, West Riverside, Pines Village) New Orleans, Louisiana**

Mr. Sorrells prepared survey baseline drawings, plan sheets and profiles depicting the underground utilities for the streets in the Uptown project. These surveys depicted the elevations of the streets to show centerline and gutter line profiles, and the surface created showed the many imperfections and potholing in the streets. Utility information was researched and observed to show the areas in need of repair or replacement of major drainage, sewer and water lines. Also included were right-of-way lines, apparent lot lines, 3D surface, and cross sections.

### **Rosethorne Path – LA. 45 Jefferson Parish, Louisiana**

Mr. Sorrells prepared the topographic survey for this project. This project was approx. 9500 LF along Rosethorne Rd./Jean Lafitte Hwy. The plans included plan and profile showing the existing drainage/sewer/ water with inverts. TBMs were set along 500' increments and the right-of-way of the highway was calculated from reference maps and put into the drawings.

### **Upper LA Hwy. 45 Tidal Surge Protection Jefferson Parish, Louisiana**

Mr. Sorrells prepared the topographic and hydrographic survey for this project. The project included two alignments which were called North and South portions. The north portion was approx. 7650 LF along the shoreline of Bayou Barataria, included in this portion was the hydrographic survey and topography, profile, cross sections were cut along the baseline. The south portion of this project was along the levee south of Jean Lafitte Blvd. approx. 8225 LF. These plans included profile and cross sections along the survey baseline.

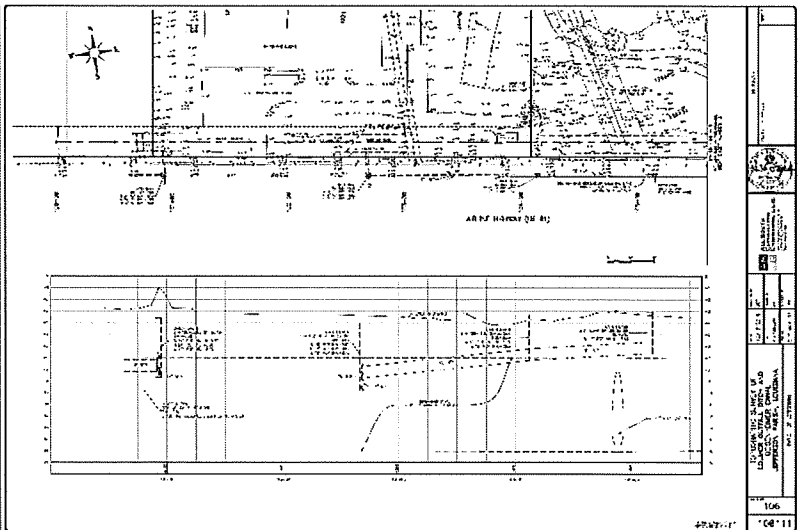
### **HMGP Canal Crossing Project-Golden Drive St. Bernard Parish, Louisiana**

Mr. Sorrells prepared the plan set for the Golden Drive Canal Crossing. This project included the replacement/improvement of a drainage canal crossing, removing damaged CMP and replace with a precast arch bridge system and associated roadway and utilities. Mr. Sorrells assisted the project engineer in completing the proposed plan set and the new site design. Mr. Sorrells also assisted in computing the quantities and detour plan used for this project.

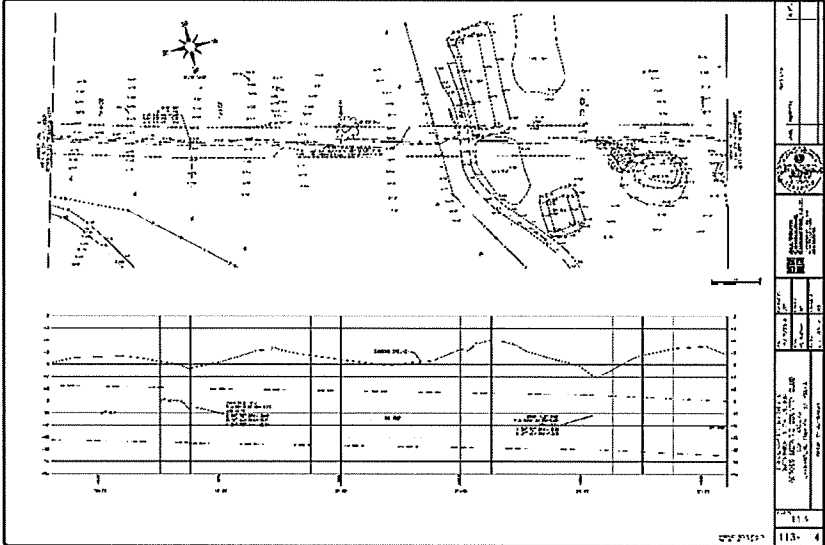
## TEC Professional Services Questionnaire

**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.**

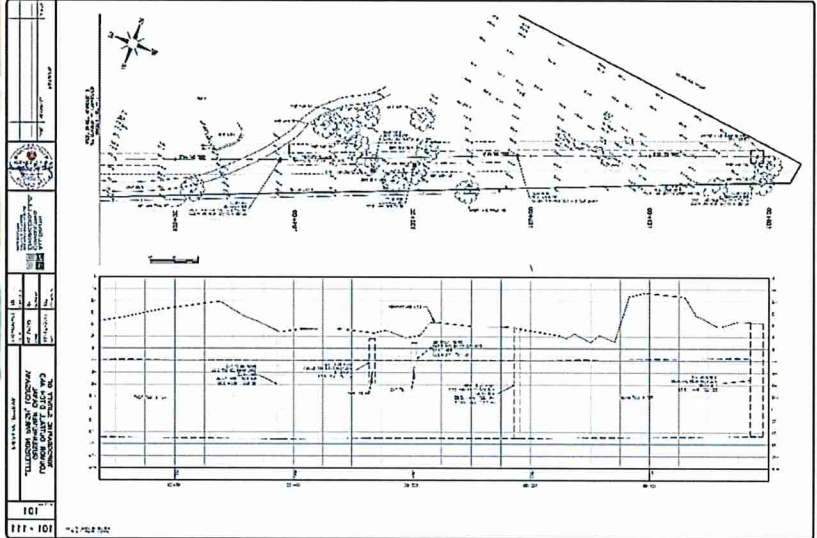
### PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Geisenheimer Canal Topographic Survey</b>  <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government            Mr. Neil Schneider, P.E.            Director of Capital Projects            1221 Elmwood Park Blvd            Jefferson, Louisiana 70123            (504)736-6753</p>	<p>This survey was prepared to provide the field data necessary to design drainage improvements for the Geisenheimer Canal which flows to Hoey's Canal and from there to 17<sup>th</sup> Street Canal and Lake Pontchartrain.</p> <p>In order to accomplish this, we prepared a topographic survey of the surface area above Geisenheimer Canal from the maintenance facility for the Metairie Country Club to the tie in point at Hoey's Canal. For this route we located all surface improvements, visible signs of utilities, trees with size and species and cross sections at 50' intervals.</p> <p>We were able to locate the underground concrete box canal by accessing it through an access cover where we set a control point in the bottom of the box we then located the sides and roof and the tie in point for the concrete arch pipe outfall for the Loumor Ditch. From a drop inlet cover near the Woodvine Ditch outfall we located the outfall and determined the invert. This was verified by probing the outfall pipe at the edge of the box. At Hoey's Canal we probed the top of the Geisenheimer Canal box and the Hoey's Canal box to determine the point of intersection.</p> <p>The deliverable for this survey were plan and profile drawings of Geisenheimer Canal which were included in a master set with Loumor Ditch and Woodvine Ditch.</p> <div style="text-align: center;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Entire Project:</b>
February 2020	N/A	Survey Cost: \$25,920

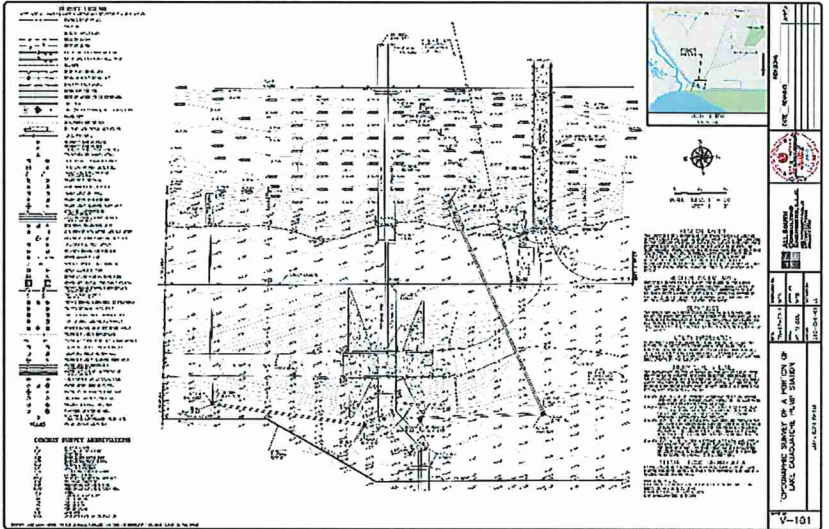
## TEC Professional Services Questionnaire

<b>PROJECT NO. 2</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Woodvine Ditch Topographic Survey</b>  <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government            Mr. Neil Schneider, P.E.            Director of Capital Projects            1221 Elmwood Park Blvd            Jefferson, Louisiana 70123            (504)736-6753</p>	<p>This survey is for drainage improvements to the Woodvine Ditch beginning at the western right of way of Nassau Drive and following the drain line west-southwesterly across the parking lot that lies on the north side of the swimming pools and tennis courts to the eastern side of the golf course where the drain line turns in a southerly direction and heads south-southwest to its discharge point into Geisenheimer Canal at the north right of way of Airline Highway.</p> <p>The topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.</p> <p>Deliverables were plan and profile sheets that were included with the master set of Loumor Ditch Outfall, Geisenheimer Canal and Woodvine Ditch.</p> <div style="text-align: right; margin-top: 20px;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
February 2020	N/A	Survey Cost: \$16,720

## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Loumor Outfall Ditch Topographic Survey</b>  <i>Jefferson Parish, Louisiana</i></p> <p>Mr. Neil Schneider, P.E.            Director of Capital Projects            1221 Elmwood Park Blvd            Jefferson, Louisiana 70123            (504)736-6753</p>	<p>This survey is for drainage improvements to the Loumor Outfall Ditch beginning at the southwest corner of Pontiff Playground and running southeast then turning in a south-southwesterly direction along the northern and western boundary of Metairie Club Estates Subdivision to its discharge point into Geisenheimer Canal and the north right of way of Airline Highway.</p> <p>This survey route follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.</p> <p>We also located the maintenance facility for the golf course, ponds and a pump house that were near the drain route.</p> <p>Deliverables for this project were plan and profile sheets that were included with the master set of Loumor Ditch Outfall, Geisenheimer Canal and Woodvine Ditch.</p> <div style="text-align: center; margin-top: 20px;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
February 2020	N/A	Survey Cost: \$19,340

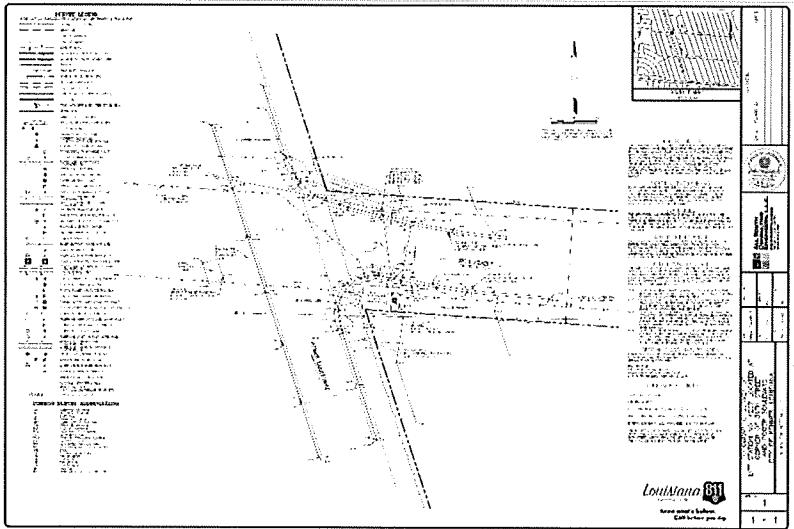
## TEC Professional Services Questionnaire

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Lake Cataouatche Pump Station Topographic Survey</b></p> <p style="text-align: center;"><i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Drainage Department            Jefferson Parish Government            Mitchell T. Theriot, P.E., Director of Drainage            1221 Elmwood Park Blvd            Jefferson, Louisiana 70123            (504)736-6753</p>	<p>All South prepared a topographic survey at the site of the proposed pump station on the northern shore of Lake Cataouatche. The new site lies south of the existing pump station and just north of the flood wall. The survey included cross sections of the proposed site and adjacent canal, location of improvements, the existing discharge pipes, roadways and the floodwall.</p> <div style="text-align: center;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
May 2019	N/A	Survey Cost: \$4,495

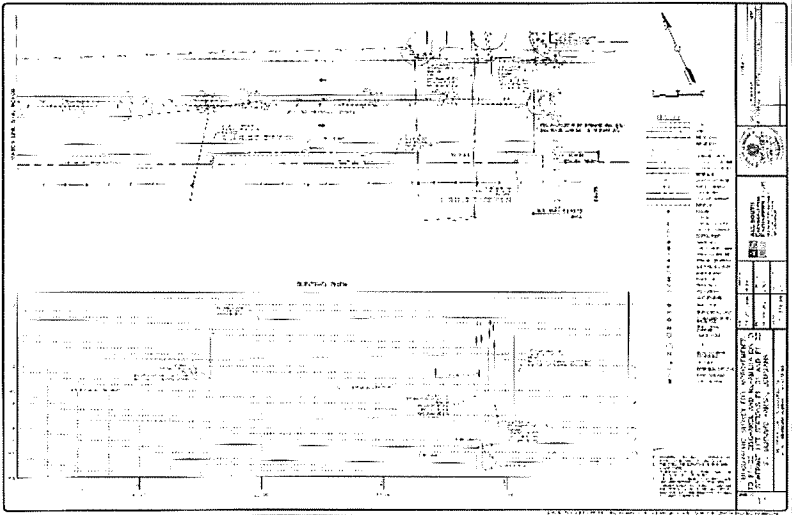
## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Ruby and Wright Lift Station Topographic Survey</b>  <i>Jefferson Parish, Louisiana</i></p> <p>GreenPoint Engineering            Amer Tufail, PE, BCEE            701 Loyola Ave., Suite 801            New Orleans, LA 70113            (504) 708-2020</p>	<p>All South Consulting Engineers, LLC was hired as subconsultant to GreenPoint Engineering to provide Topographic and Boundary Survey services for the Improvements to the Ruby and Wright Avenue Lift Station. This survey was done so the existing lift station could be moved back from its present position that was close to the Wright Avenue traffic lanes.</p> <p>The scope of work for this project included:</p> <ul style="list-style-type: none"> <li>Survey control both horizontal and vertical. The horizontal control datum will be in the Louisiana State Plane Coordinate System, South Zone (1702) NAD 1983 (2011) and the vertical control datum will be NAVD 1988 Geoid 12B. Control points will be established outside of the likely construction area. A TBM will be set out of the construction area.</li> <li>Located the existing lift station with inverts and sizes. We also located existing improvements that include fences, roadways, curbing, etc.</li> <li>Locations of visible evidence of above and below ground utilities and those utilities marked by the subscribers to the 811 system. We will also plot the approximate location from maps supplied by the controlling agencies.</li> <li>The locations of water, sewer and drainage structures in the survey area with elevations shown on the top of casting, invert elevations and size and type of material of piping.</li> <li>Locations of any trees 4" or larger at chest height with type.</li> <li>Elevations taken across the site at 25 foot intervals and at all breaks in grade</li> <li>Establish the property boundaries adjacent to the site.</li> <li>The finished product was a 24" X 36" site plan.</li> </ul>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
March 2018	N/A	Survey Cost: \$5,865


## TEC Professional Services Questionnaire

<b>PROJECT NO. 6</b>						
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>					
<p><b>Power and 39<sup>th</sup> Sewer Pump Station Topographic Survey</b> <i>Jefferson Parish, Louisiana</i></p> <p style="text-align: center;">MSMM Scott G. Chehardy 4640 South Carrollton Ave. Suite 220 New Orleans, LA 700119 (985) 233-9763</p>	<p>The topographic survey for this project encompassed an area approximately 100 feet by 100 feet located at the southeast corner of the intersection of Power Boulevard and 39<sup>th</sup> Street.</p> <p>The scope of services for this project included the following:</p> <ul style="list-style-type: none"> <li>Control points and TBM's at the site. Baseline is not needed.</li> <li>Complete benchmark location &amp; description.</li> <li>Topo within limits shown on the attachment. Include all features within these limits (utility poles, ditches, culverts, etc.)</li> <li>Any utilities within limits (We placed a LA One Call ticket and located any utilities marked by their subscribers. Existing manholes catch basins and wet well inverts were collected during this survey.</li> <li>Elevations on a 25-foot grid across the site to include the adjacent roadways.</li> <li>We provided a 25' grid of spot elevations throughout project site.</li> <li>The deliverables included a PLS stamped PDF of survey and CAD files suitable for use with ACAD 18.</li> <li>Boundary evidence was located along the right of way of Power Boulevard and 39<sup>th</sup> Street along with ownership for the pump station building. This information was used to develop the existing right of way of the streets and pump station.</li> </ul> <div style="text-align: center; margin-top: 20px;">  </div>					
<p><b>Completion Date (Actual or estimated):</b></p>	<p style="text-align: center;"><b>Estimated Cost:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; padding: 5px;"><b>Entire Project:</b></th> <th style="width: 67%; padding: 5px;"><b>Work for which Firm was Responsible:</b></th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 10px;">N/A</td> <td style="padding: 10px;">Survey Cost: \$4,410</td> </tr> </tbody> </table>		<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>	N/A	Survey Cost: \$4,410
<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>					
N/A	Survey Cost: \$4,410					
October 2018						

## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Improvements to F1-03 Discharge Force Main</b>  <i>St. Bernard Parish, Louisiana</i></p> <p>H. Davis Cole &amp; Associates, LLC            David A. Martin, P.E.            1340 Poydras Street, Suite 1850            New Orleans, LA 70112</p>	<p>All South was contracted to provide a topographic survey for the extension of the Lift Station F1-03 Force Main from its current terminus at or near SBPG Gravity Manhole F01-0043 to a new terminus at the F1-01 Lift Station located just north of the intersection of St. Bernard Highway and Jean Lafitte Parkway. The survey limits were from right of way to right of way along St. Bernard Highway and included:</p> <p>The location of all improvements within the right of way. Location of trees with species and size. Visible evidence of above and below ground utilities were located as well as those marked by Louisiana One Call Subscribers. We also plotted utilities from record drawings supplied by the controlling agencies.</p> <p>Storm and sanitary sewer lines and structures were located, along with inverts and pipe sizes. This information was plotted on plan and profile sheets.</p> <p>The deliverables included plan and profile sheets of the survey route along with AutoCAD Civil 3D drawings.</p> <div style="text-align: center; margin-top: 20px;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
July 2016	N/A	Survey Cost: \$32,170

## TEC Professional Services Questionnaire

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Munster WWTP Blower Relocation Topographic Survey</b>  <i>St. Bernard Parish, Louisiana</i></p> <p>St. Bernard Parish Government  Matt Falati  Public Works Director  1125 E St Bernard Highway  Chalmette, LA 70043  (504) 278-4200</p>	<p>All South Consulting Engineers was contracted by St. Bernard Parish Government to provide surveying services for the Munster Sewer Treatment Plant Blower Replacement project. The scope of services included:</p> <ul style="list-style-type: none"> <li>Establish survey control points and temporary benchmark adjacent to the survey area shown on attached map. Horizontally the survey will be based on the Louisiana State Plane Coordinate System, South Zone NAD 1983 (2011). Elevations will be based on NAVD 1988 (2009.55) Geoid 12B.</li> </ul> <p>This survey was to provide the basis for the design of new blowers for the sewer treatment plant. They were decommissioning the existing blowers that were located on top of the tanks and moving them to ground level. The topographic survey included the location of the adjacent treatment plant structures, elevations on a 25' grid, location of the existing water and sewer piping where visible and other adjacent utilities.</p> <p>This survey was delivered as a plan view with a second sheet that showed an elevation view of the existing facilities.</p> <div style="text-align: right; margin-top: 20px;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
May 2019	N/A	Survey Cost: \$4,890

## TEC Professional Services Questionnaire

## PROJECT NO. 9

**Project Name, Location and Owner's contact information:**

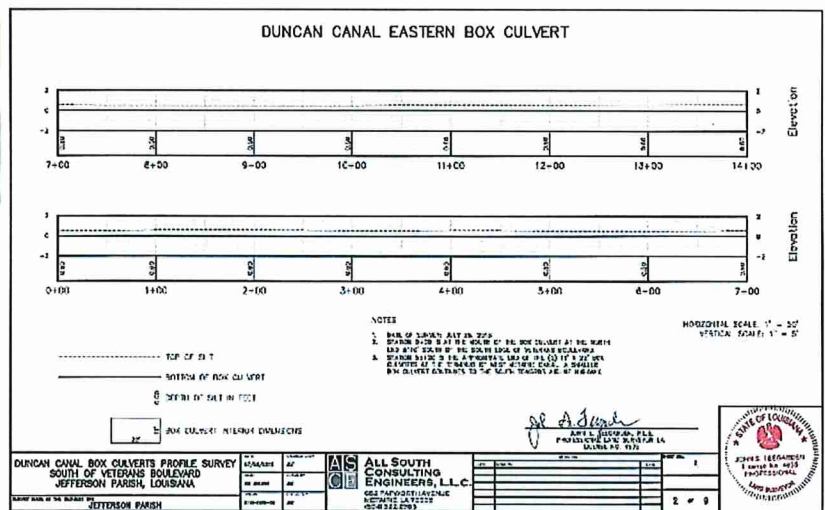
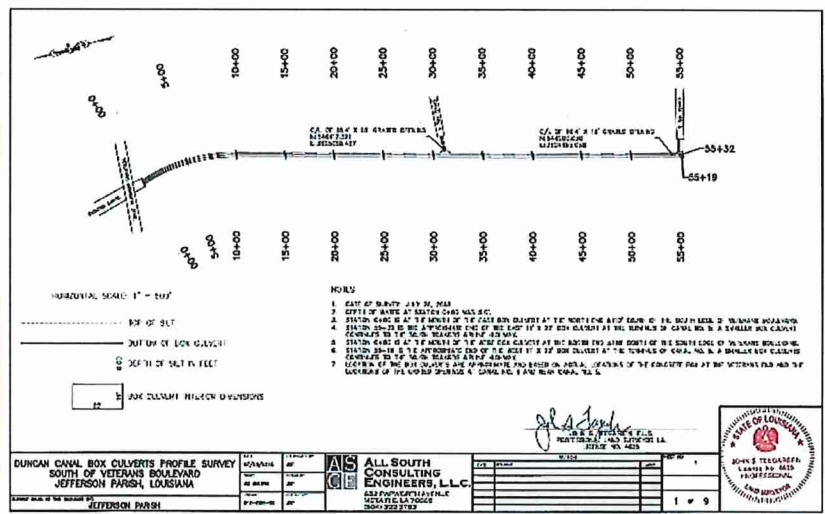
## Duncan Canal Box Culverts

*Kenner, Louisiana*

Jefferson Parish Government  
Mitchell T. Theriot, P.E., Director of Drainage  
1221 Elmwood Park Blvd  
Jefferson, Louisiana 70123  
(504)736-6753

### Nature of Firm's Responsibility:

All South was tasked with providing a survey to show the depth of silt that has accumulated within the 11' x 22' box culverts that start south of Veterans Boulevard to a point south of the intersection with Canal No. 5 (West Metairie Avenue) and the end of the double box culvert. All South's remotely controlled boat was utilized with a dual frequency echosounder to obtain depths to the top of silt and the concrete bottom of the box culvert. The deliverable for this project was a report of the survey results and plotted profile sheets prepared for each box.



**Completion Date (Actual or estimated):**

September 2018

**Estimated Cost:**

### Entire Project:

N/A

<b>Work for which Firm was Responsible:</b>

Survey Cost: \$11,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 10</b>						
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>					
<p><b>Jefferson Parish Canal Sedimentation and Debris Surveys</b>  <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government            Mitchell T. Theriot, P.E., Director of Drainage            1221 Elmwood Park Blvd            Jefferson, Louisiana 70123            (504)736-6753</p>	<p>All South is performing hydrographic surveys of selected drainage canals and box culverts in the Jefferson Parish Drainage System. The purpose of these surveys is to monitor the amount of sediment accumulating in the drainage system. All South utilizes its Z-Boat (a 6-foot long remotely controlled hydrographic survey boat) to perform these surveys. The Z-Boat is equipped with a single beam dual frequency echo sounder capable of defining the amount of sediment accumulating in the canals and drainage structures. This is accomplished by using two frequency during the survey.</p> <div style="text-align: right; margin-bottom: 10px;">  </div> <p>The high frequency sound waves are reflected by the top of the sediment layer and the low frequency sound waves penetrate the sediment and are reflected by the solid bottom. These surveys are presented as profiles and show the top of sediment elevations and the elevation of the solid bottom.</p> <div style="text-align: center; margin-top: 20px;">  </div>					
<p><b>Completion Date (Actual or estimated):</b></p>	<p style="text-align: center;"><b>Estimated Cost:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px; text-align: center;"><b>Entire Project:</b></td> <td style="width: 50%; padding: 5px; text-align: center;"><b>Work for which Firm was Responsible:</b></td> </tr> <tr> <td style="width: 50%; padding: 5px; text-align: center;">N/A</td> <td style="width: 50%; padding: 5px; text-align: center;">Survey Cost: \$75,000</td> </tr> </table>		<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>	N/A	Survey Cost: \$75,000
<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>					
N/A	Survey Cost: \$75,000					
<p>Project is Ongoing by Task Assignments</p>						

## **TEC Professional Services Questionnaire**

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

<b>Parties:</b>		<b>Status/Result of Case:</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
1. IMC Construction	Jefferson Parish	Jefferson Parish filed 3 <sup>rd</sup> 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 was founded to provide professional engineering services to municipalities and governmental agencies, as well as private clients throughout the South. All South has since experienced tremendous growth and is proudly recognized as one of the Gulf South's leading Surveying firms, as well.

All South's Surveying Division has a client list that includes the following parishes, municipal and state organizations: Jefferson Parish, Plaquemines Parish, St. Bernard Parish, Orleans Parish, St. Tammany Parish, Lafourche Parish, Terrebonne Parish, East Baton Rouge Parish, Livingston Parish, Ascension Parish, Coastal Protection and Restoration Authority, City of Gretna and City of Slidell. Projects range from topographic surveys for design of new facilities and infrastructure to bathymetric surveys for coastal restoration and drainage maintenance.

### **PROFESSIONAL TRAINING AND EXPERIENCE**

All South offers outstanding surveying services from leading professionals, including our Professional Land Surveyor. As Vice President and Survey Division Manager, Mr. John S. Teegarden, PLS has extensive experience in all aspects of land surveying which he has acquired over his 30-year career. All South's substantial local experience providing Professional Land Surveying services can be found throughout the TEC Professional Services Questionnaire. Firm capabilities and services include but are not limited to the following:

- **Control Surveys** – Establish the horizontal and vertical survey info via deep rod monuments and GPS network surveys
- **Boundary/ALTA-NSPS Surveys** – ALTA-NSPS (American Land Title Association-National Society of Professional Surveyors) surveys for large property transactions
- **Topographic Surveys** – Route and corridor surveys and development site surveys

## TEC Professional Services Questionnaire

- **Elevation Surveys** – Elevation certifications and effects of subsidence over time
- **Hydrographic Surveys** – Coastal restoration, maintenance dredging, dock construction and maintenance, USACE permitting surveys, and using side scan single beam and multi-beam hydrographic profiles
- **HDS (High Definition Survey) Laser Scanning** – High resolution point clouds to verify measurements, monitor movement of a structure, and provide a 3D model of area surveyed using 360° scans at our survey sites for this reason
- **GIS Data Acquisition** – Collect data for infrastructure inventory, complete with geocoded photographs of each item
- **Pipeline Surveying** – Collect pipe tally measurements, record heat, weld and joint numbers, record horizontal and depth of cover

### **LAND SURVEY, HYDROGRAPHIC SURVEY SERVICES:**

All South possesses the staff and capability to offer licensed surveying services, including land and hydrographic survey services. Our land survey crews have completed multiple coastal and flood protection relation projects, including all the projects listed above, through the pre-site survey, setting project control points, dredging and borrow quantity measurement, and as-built surveys.

All South is a leading provider of hydrographic surveying services. We are experienced with single-beam, multi-beam, and side-scan sonar surveys and efficiently process hydrographic data with HYPACK software. Our 26' survey vessel is outfitted with a dual-frequency echosounder to take on large hydro projects. The 6' Z-Boat remote survey boat allows us to access sites where a manned boat can't be used.

### **EQUIPMENT:**

- 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
- 14' Aluminum Flat Boat
- 6' Z-boat, remotely operated hydrographic survey boat
- Odom Hydrographic CV100 dual frequency Echosounder
- Tritech Starfish 990F side scan sonar
- Getac X500 Laptop with Hypack Hydrographic Software
- G-882 Magnetometer
- Four wheel off road vehicles / marsh buggies



### **SOFTWARE:**

- Hypack – Hydrographic software
- LEICA Geo – GPS Software

### **SIZE OF FIRM**

The All South team includes 53 professionals driven to excellence and focused on our client's needs. We are made up of 12 Louisiana Licensed Professional Civil Engineers, 3 Engineering Interns, **1 Professional Land Surveyor, 1 Land Surveyor Intern, 2 Survey Party Chiefs, and 3 Survey Technicians**. Our staff also includes program managers, CADD technicians/draftsmen, grant specialist, inspectors, field monitors, survey crews, and administrative support staff, all of which provide years of experience to help ensure that our work is exceptional.

### **CAPACITY FOR TIMELY COMPLETION**

With 54 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. We take pride in completing our projects ahead of schedule. We would not sign an agreement to complete a project if we could not meet or exceed the schedule designated by the owner. Our team is committed to and capable of meeting all schedules and deadlines that the Parish requests to ensure timely completion of this project.

## **TEC Professional Services Questionnaire**

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**

As mentioned in the above referenced project descriptions, All South has substantial local experience providing Surveying services on various projects. 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.

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. At All South, we understand the grave role we play in each project and thus, uphold the highest standard of personal and professional integrity and competence.

### **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.

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

**Signature:** \_\_\_\_\_

**Print Name:** John S. Teegarden, P.L.S.

**Title:** Vice President/ Survey Division Manager

**Date:** May 13, 2021

*Professional Engineering Services Related to the Design for the Rehabilitation of the  
Transcontinental & Belle Lift Station (E8-1)  
(Resolution No. 137449)*

**SUBCONSULTANT:**

***GULF SOUTH ENGINEERING AND  
TESTING, INC.***

## TEC Professional Services Questionnaire

**A. Project Name and Advertisement Resolution Number:**

Professional Engineering Services related to the Design of the  
**Rehabilitation of the Transcontinental & Belle Lift Station (E8-1)**  
 SOQ 21-008 | Resolution No. 137449

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



**Gulf South Engineering and Testing, Inc.**  
 15 Veterans Memorial Boulevard  
 Kenner LA 70062

**C. Name, title, & 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:**

**Chad M. Poché, P.E., Principal/Vice President**  
 504-305-4401 • cpoche@gulfsoutheng.com  
 Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

**D. Name, title, & 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.**

**Chad M. Poché, P.E., Principal/Vice President**  
 504-305-4401 • cpoche@gulfsoutheng.com  
 Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

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

5	Administrative	-	Estimators	-	Specification Writers
-	Architects (Licensed)	-	Geologists	-	Structural Engineers
-	Chemical Engineers	2	Geotechnical Engineers	1	Graduate Engineers
-	Civil Engineers	-	Interior Designers	-	Project Managers
9	Construction Inspectors	-	Landscape Architects	-	Clerical ( <i>see Administrative</i> )
-	Ecologists	-	Land Surveyor ( <i>*see PLS</i> )	-	Grant/Funding Specialist
-	Electrical Engineers	-	Mechanical Engineers	-	Sanitary Engineers
-	Engineer Intern	-	Environmental Engineers	1	Construction Managers
1	Professional Land Surveyors			1	Laboratory Managers

\*employees also include one Construction Engineer, two Construction Materials Testing (CMT) Supervisors, two Senior Engineering Technicians, one Laboratory Technician, one Soil Boring Driller, and one Soil Boring Driller Apprentice

**28\* TOTAL**

**F. Is this submittal by a JOINT-VENTURE? Please check: YES \_\_\_\_\_ NO X**

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

## TEC Professional Services Questionnaire

<b>G. If submittal is by a 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.</b>		
1. N/A		
2.		
<b>H. Has this JOINT-VENTURE previously worked together? Please check:</b> YES _____ NO _____		
<b>I. List all subcontractors anticipated for this Project. Please note that <u>all subcontractors must submit a fully completed copy of this questionnaire</u>, 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.</b>		
<b>Name &amp; Address:</b>	<b>Specialty:</b>	<b>Worked with Prime Before (Yes or No):</b>
1. N/A		
2.		
3.		
<b>J. Please specify the total number of support personnel that may assist in the completion of this Project:</b>  <b><u>28</u> (all personnel will be available to the project; individuals to be assigned)</b>		

## 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., résumé) that demonstrates the employment history 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:**

**Chad M. Poché, P.E.**  
Vice-President

**Project Assignment:**

Engineering Manager; Geotechnical Engineer

**Name of Firm with which associated:**



**Years experience with this Firm:**

10 years with this firm (2011); 28 years total (1993)

**Education: Degree(s)/Year/Specialization:**

M.S., 1998, Civil Engineering, University of New Orleans  
B.S., 1993, Civil Engineering, Louisiana State University

**Active registration: Year first registered/discipline:**

1998, Civil Engineer, Louisiana No. 27667  
2002, Civil Engineer, Mississippi No. 15405  
Water Well Contractor, LA No. 0840 (exp 06/30/2020)

**Other experience and qualifications relevant to the proposed Project:**

Mr. Poché is the Vice President, co-founder, and partner in Gulf South. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility permitting; managing personnel and office operations, and; serving as an Expert Witness. Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Chad M. Poché, P.E. (continued)*

**Improvements to Sewer Lift Station M-11-3 (13th & Farrington) and Force Main, Marrero, Jefferson Parish, LA.** Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. (\$15,000 (fee); 2019)

**Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA.** Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Blvd. and Hudson St.) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2020)

**Lift Station F-13-6 Replacement, Marrero, Jefferson Parish, LA.** Geotechnical investigation for construction of a new lift station replacing an existing one off Ehret Road and Broas Street in Marrero, LA. Scope includes drilling a single 80 ft. undisturbed soil boring, lab testing, and engineering analyses including below grade foundation recommendations, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction procedures and recommendations. (\$7,900 (fee); 2019)


**New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA.** Geotechnical investigation for construction of a new sewer lift station near the intersection of Elmwood Park Boulevard and Citrus Boulevard in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft), lab testing, and engineering analyses including net allowable soil bearing values (as appropriate), below grade foundation recommendations, allowable pile load capacities (timber), estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**New Sewer Lift Station (Toulouse Avenue & Smith Drive), Metairie, Jefferson Parish, LA.** Geotechnical investigation for a new sewer lift station (8 ft. dia. & 20 ft. bgs) at intersection of Toulouse Ave. and Smith Dr. in Metairie, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA.** Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA.** Geotechnical investigation for the construction of a new lift station near Melrose Lane and Walter Road in River Ridge, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, below ground foundation recommendations, allowable pile load capacities, estimates of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<p><b>Blake E. Vutera, P.E.</b> Engineering Manager</p>	
<b>Project Assignment:</b>	
<p>Engineering Manager/Geotechnical Engineer</p>	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <p><b>ENGINEERING AND TESTING, INC.</b> Geotechnical &amp; Materials Consultants</p> </div> </div>	
<b>Years experience with this Firm:</b>	
<p>9 years with this firm (2012); 15 years total (2006)</p>	
<b>Education: Degree(s)/Year/Specialization:</b>	
<p>M.S., 2018, Civil Engineering, University of New Orleans            Certification - Coastal Engineering, 2018, University of New Orleans            B.S., 2008, Civil Engineering, Louisiana State University</p>	
<b>Active registration: Year first registered/discipline:</b>	
<p>2013, Civil Engineer, Louisiana, No. 38607            2018, Professional Engineer, Texas No. 129410</p>	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Mr. Vutera serves as Gulf South's Engineering Manager and is based in Gulf South's Kenner, LA office. His experience with the firm includes daily work on geotechnical engineering projects as well as managing all geotechnical investigations and providing assistance with laboratory testing and construction materials testing and inspection. Engineering analyses that Mr. Vutera routinely performs include: shallow and deep foundations, slope stability analyses, settlement estimates, and pavement design. He is responsible for engineering design, report preparation, proposal preparation, personnel management, project management, and client interaction.</p> <p>Mr. Vutera's field work consists of borehole logging; installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); pavement coring; nuclear field density tests; and hand augers. Mr. Vutera has been the geotechnical engineer of record for hundreds of projects throughout his career.</p> <p><b>New Lift Station (Elmwood Park Blvd. &amp; Citrus Blvd.), Metairie, Jefferson Parish, LA.</b> Geotechnical investigation for construction of a new sewer lift station near the intersection of Elmwood Park Boulevard and Citrus Boulevard in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft), lab testing, and engineering analyses including net allowable soil bearing values (as</p>	

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Blake E. Vutera, P.E. (continued)*

appropriate), below grade foundation recommendations, allowable pile load capacities (timber), estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**Lift Station F-13-6 Replacement, Marrero, Jefferson Parish, LA.** Geotechnical investigation for construction of a new lift station replacing an existing one off Ehret Road and Broas Street in Marrero, LA. Scope includes drilling a single 80 ft. undisturbed soil boring, lab testing, and engineering analyses including below grade foundation recommendations, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction procedures and recommendations. (\$7,900 (fee); 2019)

**New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA.** Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**New Sewer Lift Station (Toulouse Avenue & Smith Drive), Metairie, Jefferson Parish, LA.** Geotechnical investigation for a new sewer lift station (8 ft. dia. & 20 ft. bgs) at intersection of Toulouse Ave. and Smith Dr. in Metairie, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA.** Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Boulevard and Hudson Street) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2020)

**New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA.** Geotechnical investigation for the construction of a new lift station near Melrose Lane and Walter Road in River Ridge, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, below ground foundation recommendations, allowable pile load capacities, estimates of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**Lift Station – Ginette Street at Bellemeade Boulevard, Gretna, Jefferson Parish, LA.** Geotechnical investigation for construction of a lift station near Ginette Street at Bellemeade Boulevard in Gretna, LA. Gulf South's scope includes drilling one soil boring to a depth of 60 feet, laboratory testing, soil boring logging, and engineering consultation. Gulf South was contracted by Jefferson Parish to provide geotechnical engineering expertise to help settle disputes between the contractor and the design engineer. (\$5,000 (fee); 2016)

## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

#### Name & Title:

**Joseph H. "Trey" Binder, III**  
Laboratory Manager

#### Project Assignment:

Laboratory Manager; Laboratory Technician

#### Name of Firm with which associated:



#### Years experience with this Firm:

10 years with this firm (2011); 15 years total (2006)

#### Education: Degree(s)/Year/Specialization:

A.D., 2011, General Studies, Nunez Community College

#### Active registration: Year first registered/discipline:

N/A

#### Other experience and qualifications relevant to the proposed Project:

Mr. Binder has direct experience with field and laboratory testing services; his field work includes soil inspection and testing consisting of nuclear density testing and soil boring logging, vibration monitoring, pile inspection, concrete testing and inspection, asphalt testing and inspection, and pavement coring. In the laboratory, Mr. Binder has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, Atterberg limits, organic content tests, moisture and density tests, Proctor compaction tests, sieve analyses, and sample extrusion.

- HAZMAT Awareness
- HAZMAT Operations Training
- ACI Aggregate Base Testing Technician

**Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA.** Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Boulevard and Hudson Street) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2020)

**Improvements to Sewer Lift Station M-11-3 (13th & Farrington) and Force Main, Marrero, Jefferson Parish, LA.** Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. (\$15,000 (fee); 2019)

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Joseph H. Binder, III (continued)*

**New Sewer Lift Station, Mississippi Ave. and Fulton St., Metairie, Jefferson Parish, LA.** Geotechnical investigation for a new sewer lift station at the intersection of Mississippi Ave. and Fulton St. in Metairie. Gulf South's scope includes drilling a single soil boring to a depth of 50 feet, lab testing, and geotechnical engineering analysis including allowable soil bearing values, allowable pile load capacities, estimate of settlement, and bedding/backfill recommendations. (\$5,000 (fee); 2015)

**New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA.** Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope consisted of performing one soil boring to 50 feet, lab testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2013)

**Lift Station, Bayou Segnette State Park, Westwego, Jefferson Parish, LA.** Geotechnical investigation for construction of a new sewer lift station consisting of a valve pit and wet well (approx. 7 and 15 feet below the ground surface, respectively) at Bayou Segnette State Park. Scope includes drilling a single soil boring to a depth of 50 feet, lab testing, and geotechnical engineering analysis, including net allowable soil bearing values, bedding and backfill recommendations (as appropriate), allowable pile load capacities, estimates of settlement, and general construction procedures & recommendations. (\$3,500 (fee); 2016)

**Lift Station Replacement – Mississippi Avenue at 21st Street, Metairie, Jefferson Parish, LA.** Geotechnical investigation for a new lift station off Mississippi Ave. at 21st St. in Metairie, LA. Gulf South's scope includes drilling a single soil boring to a depth of 60 feet, lab testing, and geotechnical engineering analyses including allowable soil bearing values, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction recommendations. (\$7,500 (fee); 2016)

**Lift Station – Ginette Street at Bellemeade Boulevard, Gretna, Jefferson Parish, LA.** Geotechnical investigation for construction of a lift station near Ginette Street at Bellemeade Boulevard in Gretna, LA. Gulf South's scope includes drilling one soil boring to a depth of 60 feet, laboratory testing, soil boring logging, and engineering consultation. Gulf South was contracted by Jefferson Parish to provide geotechnical engineering expertise to help settle disputes between the contractor and the design engineer. (\$5,000 (fee); 2016)

**Lift Station Replacement (N. Pierce Avenue & Versailles Street), Metairie, Jefferson Parish, LA.** Geotechnical investigation for a new lift station replacement in Metairie, LA. Gulf South's scope includes drilling a single soil boring to a depth of 50 feet, lab testing, and engineering analysis, including below-grade foundations, deep foundations, estimates of settlement, bedding & backfill recommendations, and general construction procedures and recommendations. (\$4,500 (fee); 2016)

**New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA.** Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<p><b>Sara E. Lockwood, E.I.</b> Graduate Geotechnical Engineer</p>	
<b>Project Assignment:</b>	
Graduate Geotechnical Engineer/Engineering Intern	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>              Geotechnical &amp; Materials Consultants           </div> </div>	
<b>Years experience with this Firm:</b>	
2 years with this firm (2019); 4 years total (2017)	
<b>Education: Degree(s)/Year/Specialization:</b>	
<p>B.S., 2019, Civil Engineering, University of New Orleans              B.S., 2016, Physics, Loyola University</p>	
<b>Active registration: Year first registered/discipline:</b>	
2020, Engineering Intern, Louisiana, No. EI.0034718	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>Ms. Lockwood is serving as a Graduate Engineer, providing such duties as project management, geotechnical engineering analyses, and field &amp; laboratory testing &amp; inspection. Her coursework included such disciplines as foundation engineering, soil mechanics, geotechnical engineering, structural concrete &amp; structural steel design, and sustainability principals. She worked as an intern during her college career for a local consulting group, assisting on a variety of environmental studies for infrastructure projects, and preparing regulatory permit applications, as well as preparation of various components of Louisiana DEQ and NEPA documents.</p> <p><b>Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA.</b> Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Boulevard and Hudson Street) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2020)</p> <p><b>Lake Cataouatche Pump Station, Avondale, Jefferson Parish, LA.</b> Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station in Avondale, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 100 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$12,500 (fee); 2019)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>Society of Women Engineers</li> <li>American Society of Civil Engineers</li> </ul> </div> </div>	

## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

**Name & Title:**

**Ross L. White**

Soil Boring Driller/Supervisor

**Project Assignment:**

Soil Boring Driller/Supervisor

**Name of Firm with which associated:**



**ENGINEERING AND TESTING, INC.**  
Geotechnical & Materials Consultants

**Years experience with this Firm:**

3 years with this firm (2018); 12 years total (2009)

**Education: Degree(s)/Year/Specialization:**

High School Diploma

**Active registration: Year first registered/discipline:**

N/A

**Other experience and qualifications relevant to the proposed Project:**

Mr. White is a soil boring driller with over a decade of experience as a soil boring driller and driller's helper, and has operated truck, track, and ATV mounted drilling rigs. In addition, he has performed soil borings over water on a barge and using barge drilling equipment. Mr. White is very familiar with the soils of Louisiana and Southeast Texas.

- *ISTC basic, Entergy PowerSafe*
- *CDL A Class Driver's License (exp 11/2024)*

**New Sewer Lift Station (Toulouse Avenue & Smith Drive), Metairie, Jefferson Parish, LA.** Geotechnical investigation for a new sewer lift station (8 ft. diameter and 20 ft. bgs) at intersection of Toulouse Ave. and Smith Dr. in Metairie, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA.** Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Ross L. White (continued)*

**New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA.** Geotechnical investigation for the construction of a new lift station near Melrose Lane and Walter Road in River Ridge, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, below ground foundation recommendations, allowable pile load capacities, estimates of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA.** Geotechnical investigation for construction of a new sewer lift station near the intersection of Elmwood Park Boulevard and Citrus Boulevard in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft), lab testing, and engineering analyses including net allowable soil bearing values (as appropriate), below grade foundation recommendations, allowable pile load capacities (timber), estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**Lift Station F-13-6 Replacement, Marrero, Jefferson Parish, LA.** Geotechnical investigation for construction of a new lift station replacing an existing one off Ehret Road and Broas Street in Marrero, LA. Gulf South's scope includes drilling a single 80 ft. undisturbed soil boring, lab testing, and engineering analyses including below grade foundation recommendations, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction procedures and recommendations. (\$7,900 (fee); 2019)

**New Lift Stations – Stennis Space Center, Hancock County, MS.** Geotechnical investigation for new lift stations with wet wells inside the John C. Stennis Space Center in Hancock County, MS. Gulf South's scope includes drilling multiple undisturbed soil borings (two at 40 ft., two at 35 ft., four at 25 ft., and two at 20 ft.), lab testing, and engineering analyses including allowable soil bearing values, estimates of settlement, bedding and backfill recommendations, below grade foundation recommendations, and general construction procedures & recommendations. (\$19,000 (fee); 2018)

**Lake Cataouatche Pump Station, Avondale, Jefferson Parish, LA.** Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station in Avondale, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 100 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$12,500 (fee); 2019)

**Proposed Steel Sheetpile Bulkhead – Crest Pump Station, North Lafourche Conservation Levee & Drainage District, Bayou Folse, Lafourche Parish, LA.** Geotechnical investigation for construction of a new bulkhead near the Crest Pump Station along Bayou Folse in Lafourche Parish, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft.), lab testing, and engineering analyses including bulkhead design parameters, tie back wall design parameters, and general construction procedures and recommendations. (\$5,500 (fee); 2019)

## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

#### Name & Title:

**Christopher Boutwell**

Construction Materials Testing (CMT) Supervisor

#### Project Assignment:

Construction Materials Testing (CMT) Supervisor

#### Name of Firm with which associated:



**ENGINEERING AND TESTING, INC.**  
Geotechnical & Materials Consultants

#### Years experience with this Firm:

9 years with this firm (2012); 12 years total (2009)

#### Education: Degree(s)/Year/Specialization:

High School Diploma

#### Active registration: Year first registered/discipline:

N/A

#### Other experience and qualifications relevant to the proposed Project:

Mr. Boutwell serves as a CMT Supervisor in Gulf South's Kenner, LA office. As a CMT Supervisor, Mr. Boutwell is responsible for scheduling technicians, technical training, resolving technical and personnel issues, equipment maintenance, preparing proposals, reviewing reports, and client interaction. Mr. Boutwell's construction monitoring experience includes nuclear density testing, concrete testing and inspection, asphalt inspection, earthwork testing and inspection, driven pile inspection, vibration monitoring, augercast pile inspection, and drilled shaft inspection. Mr. Boutwell is proficient in the following laboratory tests: soil and concrete compressive strength, moisture content, grain size sieve, organic content, Proctor compaction, lime/soil and soil/cement % determinations, density tests, and Atterberg limits.

- ACI Concrete Field Testing – Grade I
- APNGA Nuclear Moisture/Density Gauge Training
- OSHA Safety Training – 8 hr.

Mr. Boutwell's construction monitoring experience includes nuclear density testing, concrete testing and inspection, asphalt inspection, earthwork testing and inspection, driven pile inspection, vibration monitoring, augercast pile inspection, and drilled shaft inspection. Mr. Boutwell is proficient in the following laboratory tests: soil and concrete compressive strength, moisture content, grain size sieve, organic content, Proctor compaction, lime/soil and soil/cement % determinations, density tests, and Atterberg limits.

Mr. Boutwell has logged soil borings, performed pile load tests, floor flatness testing, anchor bolt pull out tests, obtained and secured samples from soil borings and borrow pits, and completed hand augers. Mr. Boutwell routinely operates Gulf South's pavement coring machines.

**Patriot Street Lift Station, Metairie, Jefferson Parish, LA.** Project consisted of the construction of a new sewer lift station for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$30,000 (fee); 2016)

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Christopher Boutwell (continued)*

**Lift Station Replacement – Mississippi Avenue at 21 st Street, Metairie, Jefferson Parish, LA.** Geotechnical investigation for a new lift station off Mississippi Ave. at 21 st St. in Metairie, LA. Gulf South's scope includes drilling a single soil boring to a depth of 60 feet, lab testing, and geotechnical engineering analyses including allowable soil bearing values, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction recommendations. (\$7,500 (fee); 2016)

**Relocation of Lift Station L-12-3, Marrero, Jefferson Parish, LA.** Construction inspection and materials testing for new lift station and sewer pipe installed at Patriot Ave. and Avenue G in Marrero, LA. Services consist of in-place fill density testing and vibration monitoring. (\$15,000 (fee); 2012)

**Kawanee at Olympic Lift Station, Metairie, Jefferson Parish, LA.** Project consisted of the construction of a new sewer lift station and below grade piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$10,000 (fee); 2016)

**New Sewer Force Main Installation (Midway & Wildwood to Lift Station E3-1), Jefferson Parish, LA.** Project consisted of the construction of several thousand linear feet of sewer force main for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$10,000 (fee); 2016)

**Improvements to Sewer Lift Station M-11-3 (13th & Farrington) and Force Main, Marrero, Jefferson Parish, LA.** Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. (\$15,000 (fee); ongoing)

**Firehouse Road Sewer Force Main Replacement, Kenner, Jefferson Parish, LA.** Gulf South performed field and laboratory testing during construction for a new sewer force main for Jefferson Parish in Kenner, LA. Gulf South's scope of work included field density tests, earthwork inspection, and concrete testing and inspection. (\$10,000 (fee); 2019)

**Chateau Transfer Station Force Main - Phase I (Duncan Canal to Chateau Transfer Station), City of Kenner, LA.** Geotechnical investigation for a new sewer force main. Gulf South performed geotechnical investigation for the 3 phase project. Scope of work included drilling 6 soil borings to a depth of 50 feet, laboratory testing, and geotechnical engineering services consisting of providing allowable pile load capacities and subsoil profiles for directional drilling purposes. (\$14,900 (fee); 2014)

## 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:	
<p><b>Lift Station F-8-3 Replacement</b>, Metairie, Jefferson Parish, Louisiana</p> <p><b>Richard C. Lambert Consultants, LLC</b> 900 West Causeway Approach Mandeville LA 70471</p> <p><b>Franz J. Zemmer</b>, 985-727-4449 fzemmer@rclconsultants.com</p>	<p>Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Boulevard and Hudson Street) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.</p>	
<b>Completion Date (Actual or estimated):</b>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 03 (MAR)	N/A	\$8,500 (fee)

### PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p><b>Improvements to Sewer Lift Station M-11-3 (13th &amp; Farrington) and Force Main</b>, Marrero, Jefferson Parish, Louisiana</p> <p><b>Shread-Kuyrkendall &amp; Associates, Inc.</b> 104 Campus Drive East, Suite 102 Destrehan LA 70047</p> <p><b>Steve P. Breeding, P.E.</b>, 985-764-4060 sbreeding@skaengr.com</p>	<p>Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection.</p>	
<b>Completion Date (Actual or estimated):</b>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019 11 (NOV)	N/A	\$15,000 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Lift Station F-13-6 Replacement,</b> Marrero, Jefferson Parish, Louisiana  <b>H. Davis Cole &amp; Associates, LLC</b> 1340 Poydras St Ste 1850 New Orleans LA 70112-5278  <b>David M. Martin, P.E.,</b> 504-836-2020 dmartin@hdaviscole.com	Geotechnical investigation for construction of a new lift station replacing an existing one off Ehret Road and Broas Street in Marrero, LA. Gulf South's scope includes drilling a single 80 ft. undisturbed soil boring, lab testing, and engineering analyses including below grade foundation recommendations, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction procedures and recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019 02 (FEB)	N/A	\$7,900 (fee)

<b>PROJECT NO. 4</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>New Lift Station</b> (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, Louisiana  <b>Pivotal Engineering, LLC</b> 1515 Poydras Street Suite 1875 New Orleans LA 70112  <b>Yoseph Shifare, E.I.,</b> 504-799-3653 yshifare@pivotaleng.com	Geotechnical investigation for construction of a new sewer lift station near the intersection of Elmwood Park Boulevard and Citrus Boulevard in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft), lab testing, and engineering analyses including net allowable soil bearing values (as appropriate), below grade foundation recommendations, allowable pile load capacities (timber), estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018 09 (SEP)	N/A	\$7,500 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>New Sewer Lift Station</b> <b>(Butler Drive &amp; Grambling Street),</b> Waggaman, Jefferson Parish, Louisiana  <b>Professional Engineering &amp; Environmental Consultants (PEEC), Inc.</b> 1065 Muller Parkway Suite B Westwego LA 70094  <b>Jeff Meyers, 504-347-1900</b> jeff@peecinc.com	Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018 07 (JUL)	N/A	\$7,500 (fee)

<b>PROJECT NO. 6</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>New Lift Station</b> <b>(Toulouse Avenue &amp; Smith Drive),</b> Metairie, Jefferson Parish, Louisiana  <b>Pivotal Engineering, LLC</b> 1515 Poydras Street Suite 1875 New Orleans LA 70112  <b>Yoseph Shifare, E.I., 504-799-3653</b> yshifare@pivotaleng.com	Geotechnical investigation for a new sewer lift station (8 ft. diameter and 20 ft. bgs) at intersection of Toulouse Ave. and Smith Dr. in Metairie, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018	N/A	\$7,500 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>New Sewer Lift Station</b> <b>(Melrose Lane &amp; Walker Road),</b> River Ridge, Jefferson Parish, Louisiana  <b>Bryant Hammett &amp; Associates, LLC</b> 1201 S. Pupera Avenue Unit 301 Gonzales LA 70737  <b>Bruce K. Dyson, P.E., PLS, 225-450-1721</b> bdyson@bha-engineers.com	Geotechnical investigation for the construction of a new lift station near Melrose Lane and Walter Road in River Ridge, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, below ground foundation recommendations, allowable pile load capacities, estimates of settlement, and general construction procedures and recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018	N/A	\$7,500 (fee)

<b>PROJECT NO. 8</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Patriot Street Lift Station, Metairie,</b> Jefferson Parish, Louisiana  <b>Evans-Graves Engineers</b> 1 Galleria Blvd Ste 1520 Metairie LA 70001  <b>Stephen Lundgren, 504-836-8190</b> slundgren@evans-graves.com	Project consisted of the construction of a new sewer lift station for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2016	N/A	\$30,000 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Kawanee at Olympic Lift Station,</b> Metairie, Jefferson Parish, Louisiana  <b>Arcadis U.S. Inc.</b> 3850 N. Causeway Blvd Ste 990 Metairie LA 70002  <b>Joseph Sensebe, P.E.,</b> 504-648-3601 joseph.sensebe@arcadis-us.com	Project consisted of the construction of a new sewer lift station and below grade piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2016	N/A	\$10,000 (fee)

<b>PROJECT NO. 10</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>New Sewer Force Main Installation (Midway &amp; Wildwood to Lift Station E3-1),</b> Jefferson Parish, Louisiana  <b>Shread-Kuyrkendall &amp; Associates, Inc.</b> 104 Campus Dr East Ste 102 Destrehan LA 70047  <b>Steven P. Breeding, P.E.,</b> 985-764-4060 sbreeding@skaengr.com	Project consisted of the construction of several thousand linear feet of sewer force main for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2016	N/A	\$10,000 (fee)

## 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. N/A		
2.		
3.		
4.		

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



### **INTRODUCTION**

Gulf South Engineering and Testing, Inc. (Gulf South) is a geotechnical engineering and construction materials testing and inspection company which began operations in 2011. Since that time, we have grown to two offices and over two dozen employees. Gulf South provides a broad range of geotechnical related services, completing more than 100 geotechnical engineering projects and 300 construction materials testing and inspection projects each year. These projects typically include soil borings (shallow and deep borings), laboratory testing (AASHTO, ASTM methods, etc.), soil classification (USCS), geotechnical engineering, and construction material testing and field inspection.

**Gulf South is a woman-owned, Hudson Initiative-certified small business in Louisiana. Our Kenner laboratory is AASHTO and CCRL certified and USACE validated.**

## TEC Professional Services Questionnaire

N. continued.

### **Geotechnical Engineering Services**

Gulf South's ownership and senior management have decades of combined experience in the profession and have completed thousands of projects. One of Gulf South's Principals, Chad M. Poché, P.E., is a founder of the company and Professional Engineer registered in Civil Engineering in Louisiana and Mississippi with specific training and experience in geotechnical engineering. He has more than 25 years of experience in planning, administering, and conducting geotechnical investigations.

The firm has specific engineering experience and training in Geotechnical Engineering, Foundation Design, and Geology & Geohydrology; our staff has extensive experience in all aspects of soil mechanics and geotechnical engineering with specific knowledge in the following areas:

- *Shallow and deep foundations (piles, shafts, augercast, screw/anchor piles)*
- *Deep excavations, cofferdams, retaining walls*
- *Levees and soft ground construction*
- *Slope stability & seepage*
- *Settlement analyses*
- *Shoreline protection*
- *Scour analyses*
- *LRFD Design*
- *Mechanically Stabilized Earth (MSE) Walls*
- *Earthwork*
- *Development of load test programs*
- *Geotechnical instrumentation and construction monitoring*
- *Canals and pump station foundations*
- *Pipe bedding and backfill*
- *Roadways and bridges*
- *Pavements*

### **Field Investigation Services**

Gulf South owns truck mounted (ARDCO C-1000) and track mounted (ARDCO SD 350) drilling rigs with associated and appurtenant support equipment (water trucks and buggy). Our equipment and crews are capable of drilling soil borings to depths of up to 300 feet and installing monitor wells, piezometers, and inclinometers. We can also perform CPT soundings, geoprobe borings, and field testing at any site. Our staff has extensive experience in planning, oversight, and direction of field investigations.

### **Laboratory Testing Services**

Gulf South's laboratory is equipped to serve the specific needs of our clients and managed by trained and experienced personnel. All testing is performed in accordance with ASTM, AASHTO, and/or other approved procedures. Gulf South routinely performs soil and concrete strength testing (unconfined and triaxial), soil classification tests (Atterberg limits, moisture content, density, particle size), soil and aggregate sieves, organic content, pH, soil resistivity, and moisture/density relationships (Proctor tests). Gulf South's laboratories are managed by full time, experienced, managers and staff.

**Gulf South's Kenner laboratory is AASHTO and CCRL certified and USACE validated.**

### **Construction Materials Testing & Inspection**

Gulf South provides a full range of construction materials testing and inspection services for structures, earthwork, foundations, pipelines, and pavements. The range of services provided by the Gulf South team includes:

## TEC Professional Services Questionnaire

N. continued.

- *Fill and base compaction and density testing*
- *Vibration monitoring*
- *Pre- and post-construction inspection*
- *Concrete testing and inspection*
- *Soil testing (field and laboratory)*
- *Asphalt testing*
- *Pile (driven & augercast) and shaft installation monitoring*
- *Load tests*
- *Earthwork/proof roll inspection*
- *Welding inspection*
- *Steel inspection*
- *Noise monitoring*

We have provided construction testing and oversight for projects as small as fill for a house pad to as **large as the \$1.2 billion Louis Armstrong New Orleans International Airport New Terminal** project.

### **PROFESSIONAL TRAINING & EXPERIENCE**

The Principals and key employees of Gulf South have many years of applicable experience in working for and with Government Agencies and private industry. Founding principal and Vice President of Gulf South, Chad M. Poché, P.E., has been a practicing registered geotechnical engineer in South Louisiana for since 1998. He has specialized training and experience in geotechnical engineering throughout Louisiana.

Gulf South's Engineering Manager, Blake E. Vutera, P.E., has over 14 years experience in geotechnical investigations and has provided engineering analysis, laboratory testing, construction materials testing and inspection. He has been the geotechnical engineer of record for hundreds of projects throughout his career

As evidenced in the provided projects and personnel résumés, key personnel past experience includes the completion of thousands of projects in the region throughout their careers for a broad range of clients, including both the government and private sectors. We are able to submit data in formats acceptable and customized to our clients' needs.

Further, Gulf South continues to expand its staff and mentor the next generation of geotechnical engineers and professionals. One of our newest employees, Sara E. Lockwood, is a recent UNO Civil Engineering graduate who is working with our seasoned professionals in the challenging field of geotechnical engineering in the State of Louisiana. She has already gained extensive experience working on projects since joining the firm in 2019 and will continue to expand her knowledge and skill set working with our firm.

### **SIZE OF FIRM & CAPACITY FOR TIMELY COMPLETION**

At 28 employees, Gulf South has the appropriate number of employees and personnel for this project. We will complete our scope of services on time and within budget. Further said, Gulf South is able to readily meet the time and budget constraints for projects assigned to this contract. Our current work load is such that we can expeditiously complete projects for this contract.

### **PAST PERFORMANCE ON JEFFERSON PARISH PROJECTS**

Gulf South has worked both directly and indirectly for various **Jefferson Parish Departments** (Public Works, Engineering Department, Drainage Department, Jefferson Parish School Board, etc.) throughout our history. This would include, **but not be limited to**, the following:

## TEC Professional Services Questionnaire

### **N. continued.**

- Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA
- Improvements to Sewer Lift Station M-11-3 & Force Main, Marrero, Jefferson Parish, LA
- New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA
- New Sewer Force Main Installation (Midway & Wildwood to Lift Station E3-1), Jefferson Parish, LA
- St. Peter's Ditch - Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA
- New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA
- New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA
- New Sewer Lift Station (Mississippi Ave. and Fulton St.), Metairie, Jefferson Parish, LA
- Lift Station Replacement - N. Pierce Avenue & Versailles Street, Metairie, Jefferson Parish, LA
- Lift Station Replacement - Mississippi Avenue at 21st Street, Metairie, Jefferson Parish, LA
- Kawanee at Olympic Lift Station, Metairie, Jefferson Parish, LA
- Marrero WWTP New Administration Building and Safe Room, Marrero, Jefferson Parish, LA
- David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, LA
- Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA
- Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA
- Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, Jefferson Parish, LA
- Taft Park Drainage Improvements, Jefferson Parish, LA
- Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, LA
- Westwego Pump Station #1, Jefferson Parish, LA
- Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA
- Westgate Drainage Improvements, Metairie, Jefferson Parish, LA
- Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, LA
- Bike Path Soil Borings, Jefferson Highway to Northline Street, Jefferson Parish, LA
- Green Acres Road - New Street Lighting, Metairie, Jefferson Parish, LA
- Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA
- Parish Line Drainage Pump Station Improvements - Phase I, City of Kenner, Jefferson Parish, LA
- St. Peter's Ditch (4700 W. Metairie Ave.), Metairie, Jefferson Parish, LA
- Canal Bank Stabilization, Wayne Avenue at West Bank Expressway, Jefferson Parish, LA
- Engineering Analysis Review (EAR) - Lafitte Tidal Protection Project (Phase I), Lafitte, Jefferson Parish, LA
- Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA
- West Esplanade Avenue Restoration (Tartan Drive to Haring Road), Metairie, Jefferson Parish, LA
- Earhart Expressway (Clearview Parkway to Central Avenue) Lighting Improvements, Jefferson Parish, LA
- Submerged Roads Program - Multiple Phases, Metairie, Jefferson Parish, LA
- Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA
- Jefferson Parish Fire Department – Garage (River Road), Bridge City, Jefferson Parish, LA
- Jefferson Parish Dept. of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA
- New Charter School, Behrman Highway, Terrytown, Jefferson Parish, LA
- Jefferson Parish Library Renovations (2350 Metairie Road), Metairie, Jefferson Parish, LA
- Clancy-Maggiore Elementary School – New Art and Band Wing, Kenner, Jefferson Parish, LA
- Johnny Bright Playground Gymnasium HVAC Installation, Metairie, Jefferson Parish, LA
- Kennedy Heights Playground Gymnasium HVAC Renovation, Avondale, Jefferson Parish, LA

Beyond the projects included within this form, additional project information (including listings, background, & client contacts) are available upon request. We have also completed similar services for Public and Private concerns throughout the region.

### **LOCATION OF THE PRINCIPAL OFFICE**

Gulf South is located in Jefferson Parish at 15 Veterans Memorial Boulevard in Kenner, Louisiana.

## TEC Professional Services Questionnaire

N. continued.

### LITIGATION

As noted in *Item M*, Gulf South has not been involved in litigation with Jefferson Parish, nor with any of the firm's clients.

### REFERENCES

The Principals and key employees of Gulf South have many years of applicable experience in working for and with Government Agencies and private industry. We are proud that a majority of its work is from repeat clients –we complete our projects on-time and within budget. Gulf South invites you to contact any of our clients for a candid discussion of our service and professionalism, and offer these direct references:

- **Mark R. Drewes, P.E.**, Director, Jefferson Parish Public Works Department (504-736-6783 | JPPW@jeffparish.net)
- **Neil Schneider, CCM, P.E.**, Director, Capital Projects, Jefferson Parish Public Works Department (504-736-6783 | JPPW@jeffparish.net)
- **Tom Schreiner**, Deputy CAO, Public Works & Capital Projects, City of Kenner (504-468-7515 | tschreiner@kenner.la.us)
- **Angela DeSoto, P.E.**, Director of Engineering, Jefferson Parish (504-736-6511 | ADeSoto@jeffparish.net)
- **Sid Trouard, P.E.**, Program Manager, Sewerage Capital Improvement Program, Jefferson Parish (504-736-6386 | STrouard@jeffparish.net)
- **Tacie Rabalais, P.E.**, Parish Engineer, Ascension Parish Government Engineering Department (225-621-5700 | trabalais@apgov.us)
- **Joey Tureau**, Infrastructure Division Director, Ascension Parish (225-450-1013 | jtureau@apgov.us)

### INSURANCE

Gulf South is fully insured to provide the services we offer; additional information is available upon request.

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

Signature: \_\_\_\_\_

Print Name: Chad M. Poché, P.E.

Title: Vice President

Date: May 10, 2021

*Professional Engineering Services Related to the Design for the Rehabilitation of the  
Transcontinental & Belle Lift Station (E8-1)  
(Resolution No. 137449)*

**SUBCONSULTANT:**

***PIVOTAL ENGINEERING, LLC***

## TEC Professional Services Questionnaire

### A. Project Name and Advertisement Resolution Number:

Provide Professional Provide Professional Engineering services related to the design for the Rehabilitation of the Transcontinental & Belle Lift Station (E8-1).

Resolution No. 137449

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

Pivotal Engineering, LLC  
3925 N. I-10 Service Rd. West, Suite 109R  
Metairie, LA 70002

### 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:

Bassam Mekari, P.E., Principal In Charge  
3925 N. I-10 Service Rd. West, Suite 109R  
Metairie, LA 70002  
(504) 799-3653

### 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.

Bassam Mekari, P.E., Principal In Charge  
3925 N. I-10 Service Rd. West, Suite 109R  
Metairie, LA 70002  
(504) 799-3653

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

<u>0</u> Administrative	<u>1</u> Estimators	<u>0</u> Specification Writers
<u>1</u> Architects (Licensed)	<u>0</u> Geologists	<u>0</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u>0</u> Graduate Engineers
<u>3</u> Civil Engineers	<u>0</u> Interior Designers	<u>1</u> Project Managers
<u>8</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>2</u> Clerical
		<u>0</u> Grant/Funding Specialist
<u>0</u> Ecologists	<u>0</u> Land Surveyor	<u>0</u> Sanitary Engineers
<u>2</u> Electrical Engineers	<u>2</u> Mechanical Engineers	
<u>2</u> Engineer Intern	<u>2</u> Environmental Engineers	
<u>0</u> Professional Land Surveyors		<u>22</u> <b>TOTAL</b>

F. Is this submittal by a JOINT-VENTURE? Please check: YES \_\_\_\_\_ NO X \_\_\_\_\_

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.

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):
None		

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

15

### **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:**

Avinash Mehta, P.E., Principal

**Project Assignment:**

Principal In Charge - Client Relations

**Name of Firm with which associated:**

Pivotal Engineering, LLC

**Years' experience with this Firm:**

8

**Education: Degree(s)/Year/Specialization:**

M.S. / 2003 / Civil Engineering  
B.S. / 2000 / Civil Engineering

**Active registration: Year first registered/discipline:**

2009 / Civil Engineering / 35100

**Other experience and qualifications relevant to the proposed Project:**

- Wright Road Improvements; Jefferson Parish, LA
- Eastbank Treatment Plant Upgrade; Jefferson Parish, LA
- N. Sibley & Boone Lift Station Improvements; Jefferson Parish, LA
- Elmwood & Citrus Lift Station Upgrades; Jefferson Parish, LA
- Smith & Toulouse Lift Station Upgrades; Jefferson Parish, LA

Mr. Mehta serves as a Principal of Pivotal Engineering. Mr. Mehta has over 14 years of experience managing Civil and Environmental Engineering projects including project budget, schedule and scope, coordination of resources, business development and client liaison activities. His experience includes the process and design, drainage design permitting, wastewater system design, potable water system design and conceptual planning and design for coastal restoration projects.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
Bassam Mekari, P.E., Principal	
<b>Project Assignment:</b>	
Principal MEP Project Manager	
<b>Name of Firm with which associated:</b>	
Pivotal Engineering, LLC	
<b>Years' experience with this Firm:</b>	
8	
<b>Education: Degree(s)/Year/Specialization:</b>	
BS /1987 / Electrical Engineering	
<b>Active registration: Year first registered/discipline:</b>	
2005 / Electrical Engineering	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<ul style="list-style-type: none"><li>• N. Sibley and Boone Lift Station Improvements; Jefferson Parish, Louisiana</li><li>• Cleveland &amp; Avron Sewer Lift Station; Jefferson Parish, LA</li><li>• Broadmoor Lift Station Improvements; Shreveport, LA</li><li>• CC1 Lift Station Improvements; Luling, LA</li><li>• Smith &amp; Toulouse Lift Station Upgrades; Jefferson Parish, LA</li><li>• Elmwood &amp; Citrus Lift Station; Jefferson Parish, LA</li><li>• Patriot Lift Station; Jefferson Parish, LA</li></ul>	
<b>Experience includes:</b> Mr. Mekari serves as the principal of Pivotal Engineering and the Engineering Manager in charge of all of the electrical and mechanical engineering projects. He has over 25 years of experience in Electrical and Mechanical Systems Design & Installations. He has designed and installed Electrical Distribution Systems for commercial and industrial facilities that range from 13.8KV down to 120/208, managed and designed mechanical and electrical systems for lift stations, Schools, Justice Centers and Police Stations. He designed/built electrical mechanical installations throughout the US and worldwide. Mr. Mekari has designed over 100 electrical and mechanical systems and will be instrumental in the overall design evaluation, improvements and value engineering. Mr. Mekari's forte is creating innovative designs while exceeding client expectations and keeping track of budget. One of the many examples is Ames (Collins) Elementary School where Mr. Mekari was able to save Jefferson Parish School Board a \$250k change order by proving and convincing the parish engineer not to replace the 6" subsurface fire hydrant pipe around the school perimeter with an 8". As a result, not only he saved the Parish ¼ of million dollar change order but the school was able to open on time for the semester.	

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Yoseph Shifare, P.E.
<b>Project Assignment:</b>
Project Director/ Sr. Civil Engineer
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
B.S. / 2001 / Civil Engineering M.S. / 2014 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2018 / Civil Engineering
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• N. Sibley and Boone Lift Station Improvements; Jefferson Parish, Louisiana</li><li>• Cleveland &amp; Avron Sewer Lift Station; Jefferson Parish, LA</li><li>• Broadmoor Lift Station Improvements; Shreveport, LA</li><li>• CC1 Lift Station Improvements; Luling, LA</li><li>• Smith &amp; Toulouse Lift Station Upgrades; Jefferson Parish, LA</li><li>• Elmwood &amp; Citrus Lift Station; Jefferson Parish, LA</li><li>• Patriot Lift Station; Jefferson Parish, LA</li></ul>
<b>Experience includes:</b> Mr. Shifare serves as a Project Director of Pivotal Engineering in charge of Civil/Transportation engineering projects. He has over 17 years engineering, project and construction management experience for public infrastructures, industrial, commercial and private facilities. As a project director he designs, leads and manages the day to day efforts of engineers on projects that include roadway, traffic, drainage/storm water management, water and wastewater, and landfills. Mr. Shifare is responsible to client liaison, manage the strategic aspects of project engagement, review high-level project deliverables, provides leadership, project accounting and ensures the engineering practice meets or exceeds industry standard.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Tarek Elnaggar, P.E., Principal
<b>Project Assignment:</b>
Civil/Environmental Engineer
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
M.S. / 1988 / Civil-Environmental Engineering B.S. / 1985 / Civil-Environmental Engineering
<b>Active registration: Year first registered/discipline:</b>
1990 / Civil/ Environmental Engineering Texas/Civil / Environmental Engineering /85089 Mississippi / Civil/Environmental Engineering/14839 New Mexico / Civil/Environmental Engineering/15032 Colorado/Civil / Environmental Engineering/39440
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"> <li>JP Public Works Warehouse; Jefferson Parish, LA</li> <li>Broadmoor Lift Station Improvements; Shreveport, LA</li> <li>Engineer's Canal Pump Station Improvement; St. Charles Parish, LA</li> <li>Westbank ATS Replacement; New Orleans, LA</li> <li>Transcontinental-Vineyard Lift Station; Jefferson Parish, LA</li> <li>Patriot Lift Station; Jefferson Parish, LA</li> </ul> <p><b>Experience includes:</b> Mr. Elnaggar serves as a Principal of Pivotal Engineering LLC. He is the lead civil and environmental engineer for the company. His experience includes design and construction management for civil and environmental projects including water main extensions, water permitting and compliance with DHH, risk assessments, air permitting and compliance, emission inventories and reporting, groundwater investigations, regulatory compliance, environmental process design, permitting, and water and waste treatment system design.</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
James Amodeo, P.E., Sr. Mechanical Engineer
<b>Project Assignment:</b>
MEP Sr. Engineer
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
BS /1994 / Mechanical Engineering
<b>Active registration: Year first registered/discipline:</b>
2011 / Mechanical Engineering
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• N. Sibley and Boone Lift Station Improvements; Jefferson Parish, Louisiana</li><li>• Cleveland &amp; Avron Sewer Lift Station; Jefferson Parish, LA</li><li>• Broadmoor Lift Station Improvements; Shreveport, LA</li><li>• CC1 Lift Station Improvements; Luling, LA</li><li>• Smith &amp; Toulouse Lift Station Upgrades; Jefferson Parish, LA</li><li>• Elmwood &amp; Citrus Lift Station; Jefferson Parish, LA</li><li>• Patriot Lift Station; Jefferson Parish, LA</li></ul>
<b>Experience includes:</b> <p>Mr. Amodeo serves as the Senior Mechanical Engineer for Pivotal Engineering. Mr. Amodeo has more than 25 years of experience in the analysis, design and project construction management for various types of building mechanical systems, plumbing design, and code compliance. Some of the main facilities that Mr. Amodeo designed mechanical systems for are restaurants, schools, hospitals, clinics, fire stations, theaters, shopping centers, office buildings, industrial facilities, lift stations and police stations. Mr. Amodeo is very familiar with Jefferson Parish mechanical rules and regulations and has the ability to provide optimal designs while meeting clients' expectations.</p> <p>Mr. Amodeo will be responsible for all mechanical and plumbing design, review of all applicable code requirements, methodologies and design recommendations and schematics.</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Johnny Mekari, P.E., Sr. Electrical Engineer
<b>Project Assignment:</b>
Sr. Electrical Engineer and Project Manager
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
7
<b>Education: Degree(s)/Year/Specialization:</b>
BS /1987 / Electrical Engineering
<b>Active registration: Year first registered/discipline:</b>
1993 / Electrical Engineering
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• Wright Road Improvements; Jefferson Parish, LA</li><li>• Cleveland &amp; Avron Sewer Lift Station; Jefferson Parish, LA</li><li>• Broadmoor Lift Station Improvements; Shreveport, LA</li><li>• CC1 Lift Station Improvements; Luling, LA</li></ul>
<b>Experience includes:</b> <p>Mr. Johnny Mekari serves as the Senior Electrical Engineer for Pivotal Engineering. Mr. Mekari offers more than 26 years of experience in the electrical engineering field which has involved responsibility for the preparation of project budgets and schedules, management of production to meet budget and schedules, management of quality control and advisor to production staff. Work responsibilities have included engineering management, project management, project engineering, lead engineer, supervision, planning and quality control. Mr. Mekari offers not only the technical expertise for electrical projects but also project management experience.</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Eliot Guerin, E.I., Project Engineer
<b>Project Assignment:</b>
Civil Engineer
<b>Name of Firm with which associated:</b>
Pivotal Engineering, L.L.C.
<b>Years' experience with this Firm:</b>
3
<b>Education: Degree(s)/Year/Specialization:</b>
B.S. / 2018 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2018 E.I./Civil Engineering Texas EIT 63617
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• Cleveland &amp; Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA</li><li>• N. Sibley &amp; Boone Lift Station Improvements; Jefferson Parish, LA</li><li>• Elmwood &amp; Citrus Lift Station; Jefferson Parish, LA</li></ul>
<b>Experience includes:</b>
<p>Mr. Guerin is a Civil Engineer with 3 years of experience at Pivotal Engineering, focusing on roadway, sanitary sewer, and storm drainage design. So far, he has done design in these areas for several projects which span municipal utilities to school infrastructure. He has also contributed drafting work, estimation, and contract preparation for Pivotal Engineering. In addition, Mr. Guerin has 6 months of experience at Zachry Group over the course of two internships, one of which was at an active construction site, and contributed a significant amount of estimating work for new power plant construction during this tenure.</p>



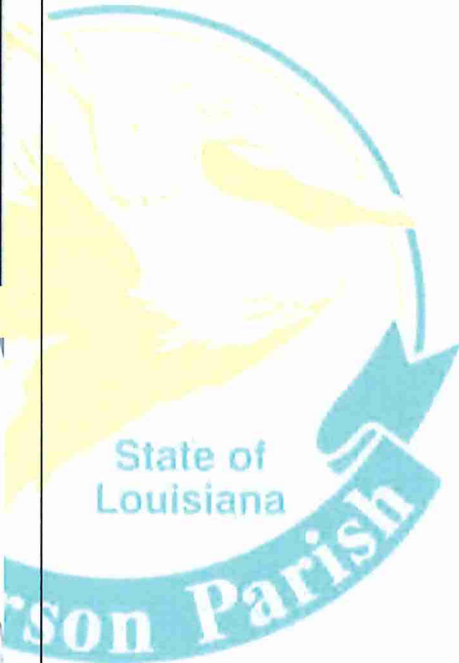
## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Irish Jones, Sr. Electrical Designer
<b>Project Assignment:</b>
Sr. Electrical Designer
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
N/A
<b>Active registration: Year first registered/discipline:</b>
2014/Building and Electrical General Contractor
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• Broadmoor Lift Station Improvements; Shreveport, LA</li><li>• Wright Road Improvements; Jefferson Parish, LA</li><li>• CC1 Lift Station Improvements; Luling, LA</li><li>• Elmwood &amp; Citrus Lift Station Upgrades; Jefferson Parish, LA</li><li>• Eastbank Treatment Plant Upgrade; Jefferson Parish, LA</li></ul>
<b>Experience includes:</b> <p>Mr. Jones serves as the Senior Electrical Designer for Pivotal Engineering. Mr. Jones has more than 45 years of experience in the analysis, design and project construction management for various types of building electrical systems and code compliance. Some of the main facilities that Mr. Jones designed electrical systems for are restaurants, schools, hospitals, clinics, fire stations, theaters, shopping centers, office buildings, industrial facilities, lift stations and police stations. Due to his field experience as a General Contractor and as a licensed Electrical Contractor, Mr. Jones is capable of providing optimal designs which results in substantial savings to clients. Mr. Jones is very familiar with Jefferson Parish electrical rules and regulations and has the ability to provide optimal designs while meeting clients' expectations.</p> <p>Mr. Jones will be responsible for all electrical design, review of all applicable code requirements, methodologies and design recommendations and schematics</p>



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Darius Cook, Project/Construction Manager
<b>Project Assignment:</b>
Construction Manager
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
B.S. / in progress / Civil-Environmental Engineering
<b>Active registration: Year first registered/discipline:</b>
None
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• Wright Road Improvements; New Orleans, LA</li><li>• Broadmoor Lift Station Improvements; Shreveport, LA</li><li>• CC1 Lift Station; Luling, LA</li><li>• N. Sibley &amp; Boone Lift Station Improvements; Jefferson Parish, LA</li></ul>
<b>Experience includes:</b>
<p>Mr. Cook serves as the Construction Manager of Pivotal Engineering. Mr. Cook is responsible for overseeing the construction activities of the project; preparing daily dairy reports of the construction activities; keeping daily, weekly and monthly quantities for the job cost tracking; meeting with contractor and owner's representatives to discuss job progress, concerns, and project milestone dates and contract time and scope; interacting with the client to make sure all concerns and needs are addressed.</p>



## TEC Professional Services Questionnaire

<b>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.</b>		
<b>PROJECT NO. 1</b>		
<b>Project Name, Location and Owner's contact information:</b>  Cleveland & Avron Sewer Lift Station Rehabilitation Jefferson Parish, LA  Sid Trouard, P.E. Jefferson Parish 1221 Yenni Building, Suite 803 Jefferson, LA 70123 (504) 736-6386	<b>Nature of Firm's Responsibility:</b>  <ul style="list-style-type: none"> <li>Reconstruction</li> </ul> <p>Pivotal was retained by Jefferson Parish to replace the existing submersible pumps with new submersible pumps with Premium Efficiency Motors and Variable Frequency Drives (VFD) as well as new controls, piping, and valves. 3-15HP pumps will be replaced with 2-25Hp Pumps.</p>	
  		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020	\$500,000	\$30,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 2</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>N. Sibley and Boone Lift Station Improvements Jefferson Parish, Louisiana</p> <p>Mitch Theriot P.E. Director Jefferson Parish Drainage Department 1221 Yenni Building, Suite 907 Jefferson Parish, LA 504-736-6753</p> <div style="display: flex; flex-direction: column; align-items: center;">   </div>	<p>Pivotal Engineering was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the C4-1A (N. Sibley and Boone) Lift Station Rehabilitation project. The major scope of the improvement is replacement of all existing submersible pumps with new submersible pumps with Premium Efficiency Motors and Variable Frequency Drive (VFD) as well as new controls, piping, and valves. 2-15 HP pumps will be replaced with 2-15 HP Pumps.</p> <div style="text-align: center; margin-top: 20px;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019	\$ 136,428	\$ 136,428

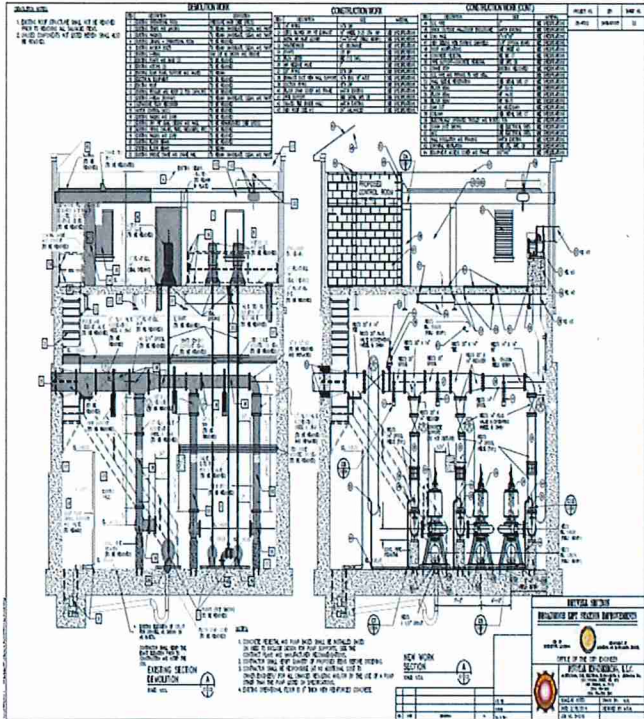
## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Elmwood &amp; Citrus Lift Station Jefferson Parish, LA</p> <p>Sid Trouard, P.E. Jefferson Parish 1221 Yenni Building, Suite 803 Jefferson, LA 70123 (504) 736-63</p> <div style="display: flex; flex-direction: column; align-items: center;">   </div>	<ul style="list-style-type: none"> <li>Abandon of existing sewer lift station and install new lift station.</li> </ul> <p>Pivotal Engineering is retained by Jefferson Parish to provide engineering services, inspection and construction administration of Elmwood and Citrus sewer lift station. The scope includes evaluation, preliminary and final design phase services for design and construction plan preparation of the Elmwood &amp; Citrus Lift Station.</p> <p>The Evaluation phase evaluated the feasible relocations of the existing sewer lift station within the parking lot and across Elmwood Park Blvd for the installation of the new lift station.</p> <p>The proposed project includes abandoning existing dry well and pump-out structure, retrofit existing wet well to serve as a manhole, and design a new lift station including NEMA pumps, electrical, and controls required for the construction of the station. The new station required a new 8' fiberglass wet well and valve pit.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2021	\$1,100,000	\$1,100,000

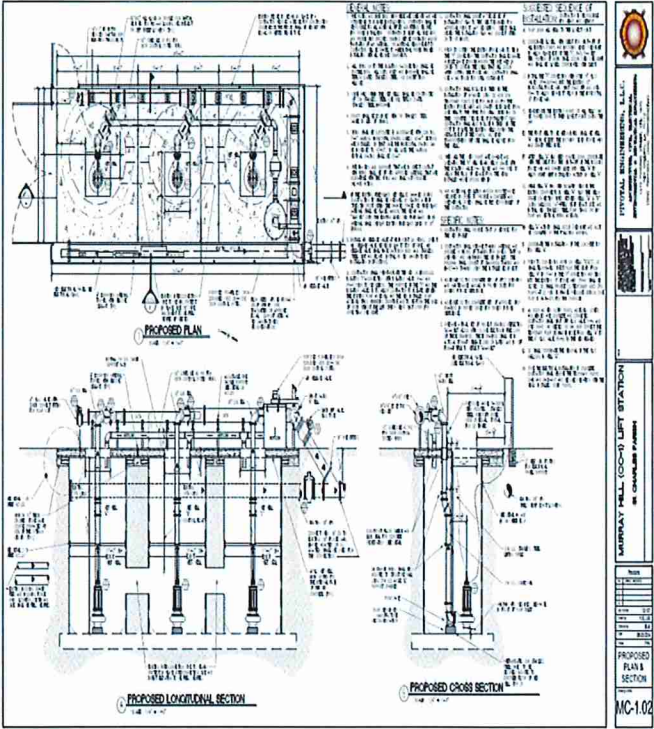
## TEC Professional Services Questionnaire

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Smith &amp; Toulouse Lift Station Upgrades Jefferson Parish, LA</p> <p>Sid Trouard, PE Jefferson Parish, Capital Projects 1221 Elmwood Park Blvd., Suite 906 Jefferson, LA 70123 (504) 736-6386</p> <div style="display: flex; flex-direction: column; align-items: center;">   </div>	<p>Pivotal is retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the H6-5 Smith &amp; Toulouse Lift Station Upgrades.</p> <p>The proposed project includes abandoning existing dry well and pump-out structure, retrofit existing wet well to serve as a manhole, and design new lift station including NEMA pumps, electrical, and controls required for the construction of the station. The new station will require a new 8' fiberglass wet well and valve pit.</p> <div style="text-align: center; margin-top: 20px;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
TBD	\$215,788.59	\$215,788.59

## TEC Professional Services Questionnaire

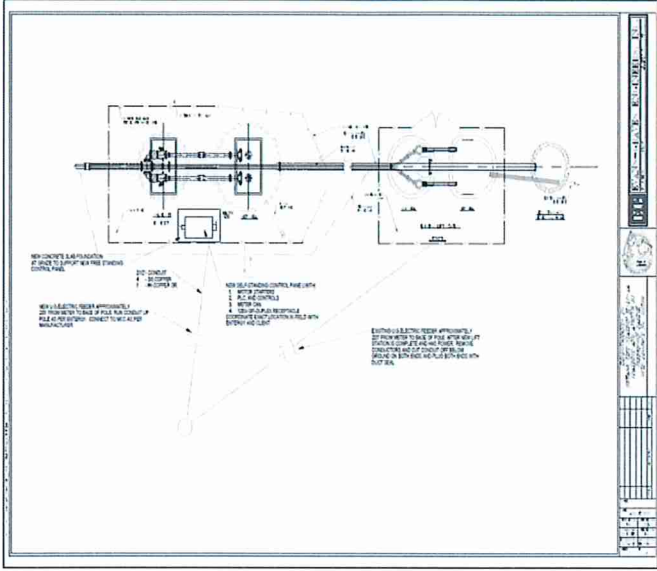
<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Broadmoor Lift Station Upgrades Shreveport, LA</p> <p>Autumn Permenter City of Shreveport DPW 505 Travis St. Shreveport, LA 71101 (318) 673-6026</p> 	<ul style="list-style-type: none"> <li>Lift Station Improvements</li> <li>Sewer Design</li> </ul> <p>Pivotal personnel were retained by the City of Shreveport to provide A/E services for Broadmoor Lift Station Project.</p> <p>Pivotal was responsible for reviewing the existing plans provided by the Owner; developing preliminary and final design layout plans, mechanical plans and specifications as required by local, city, federal or state agencies. Prior to design, Pivotal personnel designed a new power supply and distribution center (600A, 480V, 3 phase Switch Gear with MCC &amp; VFDs for the (3) new 100 HP pumps) as an upgrade to the facility's existing systems, PLC control, SCADA/Telemetry interface and Automatic Transfer Switch (ATS). Moreover, the scope required the addition of a secondary power supply (600A, 480 V, 3 phase) to the switch gear from a different feeder via an automatic transfer switch. In addition, Pivotal designed a new 18" Mag flow meter in the existing below grade force main and new odor control system in order to eliminate the existing odor problems faced by the neighboring residents. Additional scope included sizing force mains, sizing and selecting pumps, designing bypass pumping plan, rehabilitation of manholes, junction boxes, designing electrical panels and complete architectural improvements to the Lift Station. The project is currently in the Construction Phase. Once the project has been awarded to a contractor, Pivotal will be responsible for the Construction Management Services.</p>	
<b>Completion Date</b> (Actual or estimated):	<b>Estimated Cost:</b>	
2013	<b>Entire Project:</b>  \$3,500,000	<b>Work for which Firm was Responsible:</b>  \$3,500,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 6</b>										
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>									
<p>CC-1 Lift Station Improvements, Luling, LA</p> <p>St. Charles Parish Department of Public Works 100 River Oaks Destrehan, LA 985-783-5100</p> <div style="text-align: center;">  </div>	<ul style="list-style-type: none"> <li>Lift Station Improvements</li> <li>Electrical Panels</li> <li>Switch Gear</li> <li>Sewer Design</li> </ul> <p>The scope of the project was a major upgrade and rehabilitation of the existing pump station. The upgrade involved increasing the pumping capacity of the station from 2580 gpm to 4000 gpm (55% pumping capacity increase). Some of the main work scope involved the demolition of the entire existing power distribution gear, removal of existing 6 (30 hp) pumps with all related controls and replacement with (3) 100 hp pumps with soft start controls. Further a cost analysis breakdown between Soft Start and VFDs was performed and the client chose the first option due to budget constraints. Moreover the design involved SCADA controls, new PLC and tying the controls to the department Telemetry system.</p>									
<b>Completion Date (Actual or estimated):</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center; padding: 5px;"><b>Estimated Cost:</b></th> </tr> <tr> <th style="width: 50%; text-align: center; padding: 5px;"><b>Entire Project:</b></th> <th style="width: 50%; text-align: center; padding: 5px;"><b>Work for which Firm was Responsible:</b></th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 10px;">2014</td> <td style="text-align: center; padding: 10px;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 10px;">\$780,000</td> <td style="width: 50%; text-align: center; padding: 10px;">\$780,000</td> </tr> </table> </td> </tr> </tbody> </table>		<b>Estimated Cost:</b>		<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>	2014	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 10px;">\$780,000</td> <td style="width: 50%; text-align: center; padding: 10px;">\$780,000</td> </tr> </table>	\$780,000	\$780,000
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\$780,000	\$780,000									

## TEC Professional Services Questionnaire

### PROJECT NO. 7

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Patriot Lift Station; Jefferson Parish, LA</p> <p>Linda Daly, Director Jefferson Parish Department of Sewer 1221 Yenni Building, Suite 803 Jefferson, LA 70123 (504) 736-6661</p> 	<ul style="list-style-type: none"> <li>• Perform a full electrical design with specifications for a duplex lift station (Patriot) for Jefferson Parish.</li> </ul> <p>The overall system consisted of a NEMA 4X self-standing main control panel/MCC, 240, 3 phases, 4 wires. The control panel also included logic to allow the pump motors to start/stop manually from the push bottoms at the panel or automatically via the PLC inside the panel. The PLC also controlled the levels at the well and the backup level system. All of the PLC digital and analogue inputs/outputs were also transmitted from the PLC to the Jefferson Parish SCADA system central facility via radio signal.</p> <p>One of the main challenges Pivotal faced was the urgency to produce 100% stamped Construction Documents, full specifications and a cost estimate in only 5 days. Pivotal was able to meet the stringent deadline. Another challenge was the lack of existing drawings, which required Pivotal to go to the site and verify available utilities/power and incorporate it into the design drawings. Again, Pivotal was able to do so within the 5 days' time frame and complete the project on time.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	\$1,000,000	\$500,000