

March 31, 2022  
3:30 pm CST

# Statement of Qualifications

SOQ No. 22-013

## Routine Engineering Services for Water Projects



p i v o t a l  
e n g i n e e r i n g

A Full Service MEP, Civil and Environmental Firm



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**PIVOTAL ENGINEERING, LLC**

3925 N. I-10 SERVICE ROAD W., SUITE 109R

METAIRIE, LA 70002

OFFICE: 504-799-3653

FAX: 504-799-3654

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## **Section One**

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### **TEC Form for Pivotal Engineering**

## TEC Professional Services Questionnaire

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

**Routine Engineering Services for Water Projects; Resolution No. 138809**

**B. Firm Name & Address:**



3925 N. I-10 Service Road W., 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:**

**Avinash Mehta, PE, President**

**Principal-In-Charge**

3925 N. I-10 Service Road W., Suite 109R  
Metairie, LA 70002  
Office 504-799-3653  
amehta@pivotaleng.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.**

**Avinash Mehta, PE, President**

**Principal-In-Charge**

3925 N. I-10 Service Road W., Suite 109R  
Metairie, LA 70002  
Office 504-799-3653  
amehta@pivotaleng.com

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

<u>2</u> Administrative	<u>2</u> Estimators	<u>    </u> Specification Writers
<u>1</u> Architects (Licensed)	<u>    </u> Geologists	<u>1</u> Structural Engineers
<u>    </u> Chemical Engineers	<u>    </u> Geotechnical Engineers	<u>    </u> Graduate Engineers
<u>5</u> Civil Engineers	<u>    </u> Interior Designers	<u>1</u> Project Managers
<u>8</u> Construction Inspectors	<u>    </u> Landscape Architects	<u>1</u> Clerical
<u>    </u> Ecologists	<u>    </u> Land Surveyor	<u>    </u> Grant/Funding Specialist
<u>2</u> Electrical Engineers	<u>1</u> Mechanical Engineers	<u>    </u> Sanitary Engineers
<u>3</u> Engineer Intern	<u>2</u> Environmental Engineers	
<u>    </u> Professional Land Surveyors		<u>29</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. N/A

**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. BFM Corporation, LLC 15 Veterans Memorial Blvd Metairie, LA 70062	Surveying	Yes
2. Gulf South Engineering & Testing, Inc. 15 Veterans Memorial Blvd Metairie, LA 70062	Geotechnical Engineering & Testing	Yes
3.		

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

29

## 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, PE; President**

**Project Assignment:**

**Principal-in-Charge/Sr. Civil Engineer**

**Name of Firm with which associated:**

The logo for Pivotal Engineering features the word "pivotal" in a large, lowercase, sans-serif font, with the word "engineering" in a smaller, lowercase, sans-serif font directly beneath it. The text is white and set against a dark blue rectangular background.

**Years' experience with this Firm:**

8

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

**M.S. Civil Engineering, University of Central Florida, 2003**

**B.S. Civil Engineering, NMU – India, 2000**

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

**Louisiana PE #35100 Civil**

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

Mr. Mehta serves as the Principal of Pivotal Engineering. Mr. Mehta has over 16 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 street design, pocket park improvements, roadway enhancements, drainage studies, process and design, water and wastewater master planning, drainage design permitting, wastewater system design, potable water system design and conceptual planning and design for coastal restoration projects.

#### **Experience includes:**

#### **Evaluate Implementation of An Automated Water Service Metering; Jefferson Parish, LA**

Mr. Mehta served as the principal-in-charge for this project. Pivotal was retained by Jefferson Parish under a prime consultant Digital Engineering to evaluate and test the existing Jefferson Parish water service metering system, accuracy, and billing system. Based on the evaluation and testing results the team recommended an Automated Meter Reading (AMR) and Automatic Metering Infrastructure (AMI) for the existing 164,660 water service meters. This study evaluated multiple vendors and AMR/AMI systems to compare fixed vs cellular network, FCC licensed vs unlicensed, meter data management system, and customer portal. Further, the study conducted survey of existing water meter cast iron and plastic underground boxes of different shapes, sizes and manufacturers to recommend on how to retrofit existing meter box to accommodate the proposed AMR/AMI system.

## **TEC Professional Services Questionnaire**

### **Clearview & Airline Intersection Improvements; Jefferson Parish, LA**

Mr. Mehta served as the principal-in-charge for this project. Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.

### **Wright Road Improvements; New Orleans, LA**

Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. Mr. Mehta serves as the principal-in-charge for this project. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

### **RR 016-019 B.W. Cooper, Gert Town Improvements; New Orleans, LA**

Mr. Mehta served as the principal-in-charge for these projects. Pivotal is currently retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for nine (9) blocks (3245 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

### **Backflow Prevention Services, LLC; New Orleans, LA**

Mr. Mehta served as the principal-in-charge for this project. The project involved citywide analysis of to determine the appropriate type of Backflow Prevention and Cross-Connection protection. The project included creating the policy and procedure manual explaining the rights and obligations of customers who are connected to SWB water system. Pivotal Engineering worked closely with SWB to evaluate existing water customer data and compliance tracking system. The size of the project included (134,972 metered connections). The result of the contamination risk level for non-residential facilities will be used to create a computer data base that can be accessed by SWB personnel to follow up compliance status of each non-residential water supply customer. Pivotal prepare a plumbing packet and provide workshops regarding the BFP installation requirements to customers and plumbing professionals. Pivotal's licensed inspection staff assists SWB to inspect installations and identify potential cross connections and ensure backflow preventer requirements are met in accordance with LDH regulations and IPC standards.

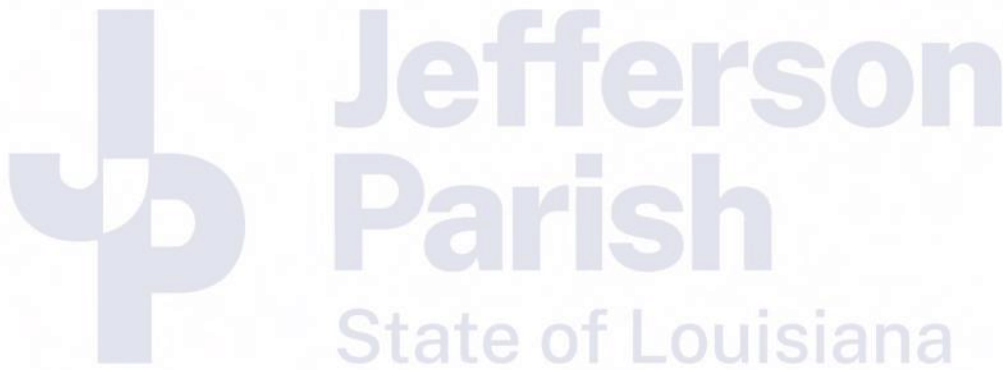
### **PONO BFP Installation; New Orleans, LA**

Mr. Mehta served as the principal-in-charge for this project. The project involved the analysis of multiple locations and requirements to determine the appropriate type of protection. Once that was determined the appropriate backflow preventers were selected and located on multiple Port of New Orleans properties. The scope included domestic water protection as well a fire water protection. In addition, the analysis of the domestic water supply and protection for all shipping that is supplied water by the Port of New Orleans was performed. Pressure and flow testing was monitored and used to determine the baseline conditions available and to identify areas where additional pressure would be required for proper operation and additionally to select the appropriate booster pump packages to meet these requirements.

## **TEC Professional Services Questionnaire**

### **East Bank Water Treatment Plant Upgrade; Jefferson Parish, LA**

Mr. Mehta served as the principal-in-charge for this project. Pivotal Engineering LLC designed the full Power & Instrumentation systems for the Main East Bank Water Treatment Plant in Jefferson Parish, Louisiana. The new facility is designed for a capacity of 40 MGD with the ability to expand to 60 MGD in the future. The main scope consisted of providing a triple redundancy 13.8KV, feeders to the main 1200 A, 13.8 KV, 500MVA Gear which in turn provides 13.8KV power to (2) double ended unit substations. A bank of Generators also provides emergency power during the loss of main power as another back up. Pivotal provided over 250 electrical sheets for this facility due to its complexity.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Yoseph Shifare, PE, PTOE; Sr. Civil Engineer</b>
<b>Project Assignment:</b>
<b>Project Manager</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
M.S. Civil Engineering, University of Louisville, Kentucky, 2014 B.S. Civil Engineering, University of Asmara, Eritrea, 2001
<b>Active registration: Year first registered/discipline:</b>
2018 / Civil Engineering / LA PE # 42747 Louisiana PTOE
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Shifare serves as the project director of Pivotal Engineering in charge of civil/transportation projects. He has over 19 years engineering, project and construction management experience for public infrastructure as well as for industrial, commercial and private facility projects. As project director, leads and manages the day-to-day efforts of engineers on projects that include roadway, traffic analyses, pavement structural design, use of geosynthetics, geometric design, line/grade analyses, pavement marking, intersection improvements, pedestrian/bicycle lanes/paths, excavation/embankment, traffic, drainage/storm water management, water/wastewater infrastructure and landfills. In addition, Mr. Shifare has extensive experience in hydraulic and green infrastructure project design, such as experience providing complex engineering services for hazard mitigation projects for government clients, including but not limited to detention and filtration of stormwater, open channel and pipe flow drainage systems, created wetlands structures, bioretention, and design of hydraulic control structures. He is responsible to client liaison, management of the strategic aspects of project engagement, high-level review of project deliverables, leadership, project accounting and ensuring that engineering practices meets or exceeds industry standards.</p>
<b>Experience includes:</b>
<b><u>Evaluate Implementation of An Automated Water Service Metering; Jefferson Parish, LA</u></b>
<p>Mr. Shifare served as the Project Manager for this project. Pivotal was retained by Jefferson Parish under a prime consultant Digital Engineering to evaluate and test the existing Jefferson Parish water service metering system, accuracy, and billing system. Based on the evaluation and testing results the team recommended an Automated Meter Reading (AMR) and Automatic Metering Infrastructure (AMI) for the existing 164,660 water service meters. This study evaluated multiple vendors and AMR/AMI systems to compare fixed vs cellular network, FCC licensed vs unlicensed, meter data management system, and customer portal. Further, the study conducted survey of existing water meter cast iron and plastic underground boxes of different shapes, sizes and</p>

## **TEC Professional Services Questionnaire**

manufacturers to recommend on how to retrofit existing meter box to accommodate the proposed AMR/AMI system.

### **Clearview & Airline Intersection Improvements; Jefferson Parish, LA**

Mr. Shifare served as the Project Manager for this project. Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.

### **Wright Road Improvements; New Orleans, LA**

Mr. Shifare served as the Project Manager for this project. The project includes removing the existing street, drainage and sewer structures and designing new alignment and profile, drainage and sewer structures. For this project, Mr. Shifare analyzed the drainage area for 10 years storm and designed drainage improvements; designed the Side streets profile so as to join with the existing side street's profile; designed the pavement marking and signage. Further calculated capital cost estimate of the project and prepared Construction document.

### **RR 016-019 B.W. Cooper, Gert Town Improvements; New Orleans, LA**

Mr. Shifare served as the Project Manager for this project. Pivotal is currently retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for nine (9) blocks (3245 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

### **Backflow Prevention Services, LLC; New Orleans, LA**

Mr. Shifare served as the Project Manager for this project. The project involved citywide analysis of to determine the appropriate type of Backflow Prevention and Cross-Connection protection. The project included creating the policy and procedure manual explaining the rights and obligations of customers who are connected to SWB water system. Pivotal Engineering worked closely with SWB to evaluate existing water customer data and compliance tracking system. The size of the project included (134,972 metered connections). The result of the contamination risk level for non-residential facilities will be used to create a computer data base that can be accessed by SWB personnel to follow up compliance status of each non-residential water supply customer. Pivotal prepare a plumbing packet and provide workshops regarding the BFP installation requirements to customers and plumbing professionals. Pivotal's licensed inspection staff assists SWB to inspect installations and identify potential cross connections and ensure backflow preventer requirements are met in accordance with LDH regulations and IPC standards.

### **PONO BFP Installation; New Orleans, LA**

Mr. Shifare served as the Project Manager for this project. The project involved the analysis of multiple locations and requirements to determine the appropriate type of protection. Once that was determined the appropriate backflow preventers were selected and located on multiple Port of New Orleans properties. The scope included domestic water protection as well a fire water protection. In addition, the analysis of the domestic water supply and protection for all shipping that is supplied water by the Port of New Orleans was

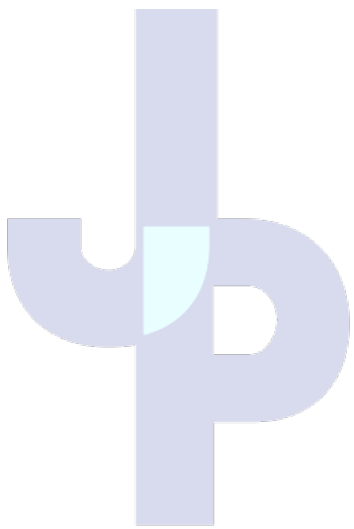


## **TEC Professional Services Questionnaire**

performed. Pressure and flow testing was monitored and used to determine the baseline conditions available and to identify areas where additional pressure would be required for proper operation and additionally to select the appropriate booster pump packages to meet these requirements.


### **East Bank Water Treatment Plant Upgrade; Jefferson Parish, LA**

Mr. Shifare served as the Project Manager for this project. Pivotal Engineering LLC designed the full Power & Instrumentation systems for the Main East Bank Water Treatment Plant in Jefferson Parish, Louisiana. The new facility is designed for a capacity of 40 MGD with the ability to expand to 60 MGD in the future. The main scope consisted of providing a triple redundancy 13.8KV, feeders to the main 1200 A, 13.8 KV, 500MVA Gear which in turn provides 13.8KV power to (2) double ended unit substations. A bank of Generators also provides emergency power during the loss of main power as another back up. Pivotal provided over 250 electrical sheets for this facility due to its complexity.



Jefferson  
Parish  
State of Louisiana

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Bassam Mekari, PE; Sr. Electrical Engineer</b>
<b>Project Assignment:</b>
<b>Electrical Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>8</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>MS in Electrical Engineering - 3 hours remaining</b>
<b>BS in Electrical Engineering, 1987, Louisiana State University</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Licensed PE - # 31801</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Mekari serves as the principal of Pivotal Engineering and the Engineering Manager in charge of all of the electrical engineering projects. He has developed tremendous experience in designing and installing Medium and Low Voltage Electrical Distribution Systems for commercial and industrial facilities lift stations, water treatment plants, Schools, Justice Centers, Police Stations, and industrial Thermal Reactors. He also designed/built electrical sub-stations for industrial systems and supervised actual installations throughout the US and worldwide. Mr. Mekari has designed over 200 electrical projects and will be instrumental in the overall plant electrical systems design. He also developed tremendous experience in sizing VFDs, UPSs, LED lighting, Dry and Liquid-Fill Transformers, Motors, Medium and Low Voltage Grounding Systems, Panelboards and Switch Gears, ATs, Back Up Generators and possesses hands on field installations' experience and construction administration. Mr. Mekari developed expertise in all applicable codes pertaining to his projects such as NEC, NFPA 70E, NFPA 820, UL and local codes.</p>
<b>Experience includes:</b>
<b><u>East Bank Water Treatment Plant Upgrade; Jefferson Parish, LA</u></b>
<p>Mr. Mekari served as the project main Electrical Engineer. Pivotal Engineering LLC designed the full Power &amp; Instrumentation systems for the Main East Bank Water Treatment Plant in Jefferson Parish, Louisiana. The new facility is designed for a capacity of 40 MGD with the ability to expand to 60 MGD in the future. The main scope consisted of providing a triple redundancy 13.8KV, feeders to the main 1200 A, 13.8 KV, 500MVA Gear which in turn provides 13.8KV power to (2) double ended unit substations. A bank of Generators also provides emergency power during the loss of main power as another back up. Pivotal provided over 250 electrical sheets for this facility due to its complexity.</p>



## **TEC Professional Services Questionnaire**

### **Evaluate Implementation of An Automated Water Service Metering; Jefferson Parish, LA**

Mr. Mekari served as the project main Electrical Engineer. Pivotal was retained by Jefferson Parish under a prime consultant Digital Engineering to evaluate and test the existing Jefferson Parish water service metering system, accuracy, and billing system. Based on the evaluation and testing results the team recommended an Automated Meter Reading (AMR) and Automatic Metering Infrastructure (AMI) for the existing 164,660 water service meters. This study evaluated multiple vendors and AMR/AMI systems to compare fixed vs cellular network, FCC licensed vs unlicensed, meter data management system, and customer portal. Further, the study conducted survey of existing water meter cast iron and plastic underground boxes of different shapes, sizes and manufacturers to recommend on how to retrofit existing meter box to accommodate the proposed AMR/AMI system.


### **Backflow Prevention Services, LLC; New Orleans, LA**

Mr. Mekari served as the project main Electrical Engineer. The project involved citywide analysis of to determine the appropriate type of Backflow Prevention and Cross-Connection protection. The project included creating the policy and procedure manual explaining the rights and obligations of customers who are connected to SWB water system. Pivotal Engineering worked closely with SWB to evaluate existing water customer data and compliance tracking system. The size of the project included (134,972 metered connections). The result of the contamination risk level for non-residential facilities will be used to create a computer data base that can be accessed by SWB personnel to follow up compliance status of each non-residential water supply customer. Pivotal prepare a plumbing packet and provide workshops regarding the BFP installation requirements to customers and plumbing professionals. Pivotal's licensed inspection staff assists SWB to inspect installations and identify potential cross connections and ensure backflow preventer requirements are met in accordance with LDH regulations and IPC standards.

### **PONO BFP Installation; New Orleans, LA**

Mr. Mekari served as the project main Electrical Engineer. The project involved the analysis of multiple locations and requirements to determine the appropriate type of protection. Once that was determined the appropriate backflow preventers were selected and located on multiple Port of New Orleans properties. The scope included domestic water protection as well a fire water protection. In addition, the analysis of the domestic water supply and protection for all shipping that is supplied water by the Port of New Orleans was performed. Pressure and flow testing was monitored and used to determine the baseline conditions available and to identify areas where additional pressure would be required for proper operation and additionally to select the appropriate booster pump packages to meet these requirements.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Johnny A. Mekari, PE; VP – Baton Rouge Operations</b>
<b>Project Assignment:</b>
<b>Electrical Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>8</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>BS in Electrical Engineering, 1987, Louisiana State University</b>
<b>Active registration: Year first registered/discipline:</b>
<b>LA PE # 25415</b> <b>MS PE # 14670</b> <b>TX PE # 87303</b> <b>IEEE Member</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>30 years Electrical Systems Design &amp; Installations</p> <p>Mr. Mekari serves as the Vice President of Pivotal Engineering for the Baton Rouge Operations. He has developed extensive experiences in designing and installing Electrical Distribution Systems and Control Systems for industrial, commercial and municipal facilities. The footprint of the projects designed by Mr. John Mekari extends to local, national and international levels.</p>
<b>Experience includes:</b>
<p><b>East West Bank New Orleans Waste Water Treatment Plant</b></p> <p>This project encompasses the design and installation of a New 13.8KV automatic transfer switch (ATS) at the East Bank Waste Water Treatment Facility.</p> <p>The project scope was to provide a new ATS to allow a time-delayed automatic switching between the two main Entergy feeds and the emergency generator. The main 13.8KV circuit breakers had to be remotely operated for arc flash safety. In addition, hard wired Interlocks had to be designed preventing paralleling of the feeders at any time since the phases were not synchronized.</p> <p>The project's objectives were achieved by automating the existing gear using control logic and PLCs in lieu of new ATS additions and installations. This innovative design resulted in substantial savings to the client in budget and schedule.</p> <p>The new design is safer and more economical and requires less maintenance. The redundant PLCs and hard-wired interlock logic system allowed the safe automatic transfer switching of the existing 13.8 KV circuit breakers. Remote power transfer was also incorporated into the design. The project is currently in the construction phase.</p>

## **TEC Professional Services Questionnaire**

### **Veolia West Bank New Orleans Waste Water Treatment Plant**

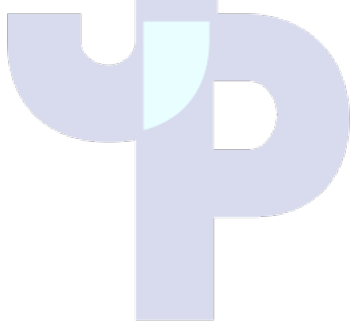
Mr. Mekari designed the replacement of an existing 4160V MTS outdoor switchgear lineup with a new outdoor ATS switchgear lineup. Also, Mr. Mekari conducted a comprehensive Power Study encompassing the existing and new electrical facilities.

The project scope of work included upgrading the existing underground cables and raceways along with the necessary electrical equipment, providing One Line Diagram as-builts, conducting short circuit, relay coordination and arcfash calculations and analysis.

The challenges of this project were to field verify the existing conditions and underground utilities due to lack of documentation. Mr. Mekari successfully led the effort to field trace and document the existing 13.8KV, 4160V and 480V feeders and related equipment. Another critical project challenge was to minimize the plant downtime to less than 3 hours during construction. The design documents provided and incorporated a sequence of installation to accommodate this objective. The project is currently in the construction phase.

### **Cleco Power Plants – Various Sites in LA**


Mr. Mekari served as the QA/QC Electrical Engineer for updating the one-line diagrams for all generating units (13.8 KV, 2.4KV, and 480VAC distribution systems) by collecting the pertinent field data, modeling the data in ETAP, SKM, or Easypower software system(s), running the short circuit analysis, arc flash studies, protective relay coordination and load studies. Recommendations were made to correct deficiencies discovered by the studies such as replacing over-duty electrical equipment (MCCs and Power Distribution Boards/panels), retrofitting breakers with solid-state protection and control relays to minimize the arc-flash hazard classification. Issue and install arcfash warning labels on various electrical equipment per code requirements.



Parish

State of Louisiana

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>James Amodeo, PE; Sr. Mechanical Engineer</b>
<b>Project Assignment:</b>
<b>Mechanical Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>8</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>BS / 1994 / Mechanical Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>LA PE #36489 – Mechanical - 2011</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Amodeo serves as the Senior Mechanical Engineer for Pivotal Engineering. Mr. Amodeo has more than 20 years of experience in the analysis, design and project construction management for various types of building mechanical systems, plumbing design, and code compliance.</p> <p>Working on more than 20 FEMA projects post Katrina, Mr. Amodeo has developed tremendous FEMA experience and reviewing PWs and providing cost estimates.</p> <p>Mr. Amodeo will be designated as the Sr. Mechanical Engineer for this project. Mr. Amodeo will be responsible for all mechanical and plumbing design, review of all applicable code requirements, methodologies and design recommendations and schematics</p>
<b>Experience includes:</b>
<p><b><u>East Bank Water Treatment Plant Upgrade; Jefferson Parish, LA</u></b></p> <p>Mr. Amodeo served as a Sr. Mechanical Engineer for this project. Pivotal Engineering LLC designed the full Power &amp; Instrumentation systems for the Main East Bank Water Treatment Plant in Jefferson Parish, Louisiana. The new facility is designed for a capacity of 40 MGD with the ability to expand to 60 MGD in the future. The main scope consisted of providing a triple redundancy 13.8KV, feeders to the main 1200 A, 13.8 KV, 500MVA Gear which in turn provides 13.8KV power to (2) double ended unit substations. A bank of Generators also provides emergency power during the loss of main power as another back up. Pivotal provided over 250 electrical sheets for this facility due to its complexity.</p>
<p><b><u>PONO BFP Installation; New Orleans, LA</u></b></p> <p>Mr. Amodeo served as a Sr. Mechanical Engineer for this project. The project involved the analysis of multiple locations and requirements to determine the appropriate type of protection. Once that was determined the appropriate backflow preventers were selected and located on multiple Port of New Orleans properties. The scope included domestic water protection as well a fire water protection. In addition, the analysis of the domestic water supply and protection for all shipping that is supplied water by the Port of New Orleans was</p>

## **TEC Professional Services Questionnaire**

performed. Pressure and flow testing was monitored and used to determine the baseline conditions available and to identify areas where additional pressure would be required for proper operation and additionally to select the appropriate booster pump packages to meet these requirements.

### **Cleveland & Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA**

Mr. Amodeo served as a Sr. Mechanical Engineer for the lift station upgrades for this project. 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.

### **N. Sibley & Boone Lift Station Improvements; Jefferson Parish, LA**

Mr. Amodeo served as a Sr. Mechanical Engineer for the lift station upgrades for this project. 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.

### **Broadmoor Lift Station; Shreveport, Louisiana**

Mr. Amodeo served as a Sr. Mechanical Engineer for the lift station upgrades and pumping capacity increase (5400 gpm). This lift station was one of the larger lift stations for Shreveport DPW. The Project includes the rehabilitation of the facility building including pumps, pipes, screening system, odor control system, and designing of an access road. Project management responsibilities included budgeting; invoicing; executing monthly progress meetings; preparing and tracking project schedules; and interacting with the client, owner, contractors and various permitting agencies.

### **CC-1 Lift Station Upgrade: St Charles Parish DPW; Luling, Louisiana**

Mr. Amodeo served as the Sr. Mechanical Engineer for the upgrades and improvements of the lift station. The overall scope consisted of a major upgrade and overhaul to increase the pumping capacity of the pump station. Scope also included the demolition of the existing mechanical pumping system including the removal of (6) existing (30 hp) pumps with all related piping and appurtenances and replacement with (3) 100 hp pumps with updated piping, controls and monitoring. Some of Mr. Amodeo's responsibilities involved verifying the existing field conditions including pumps, piping, and odor control of Analysis for maximizing the current force main capacities in order to maximize the capacity and efficiency of the new lift station which reflected an increase of 55% pumping capacity coupled with higher efficiencies and improved monitoring and odor control. Mr. Amodeo also helped with the cost analysis breakdown in order to budget the new pumping system for the overall mechanical construction scope.

### **Patriot Lift Station; Jefferson Parish, LA**

Mr. Amodeo served as the Sr. Mechanical Engineer for the upgrades and improvements of the lift station. Pivotal was retained to perform a full electrical design with specifications for a duplex lift station (Patriot) for Jefferson Parish. 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.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Ignatious Mutoti, PE; Sr. Wastewater Engineer</b>
<b>Project Assignment:</b>
<b>Wastewater &amp; Drainage Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>8</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Phd Environmental Engineering, University of Central Florida, 2003</b> <b>M.S. Environmental Engineering, University of Sydney, Australia, 1998</b> <b>B.Sc. Applied Chemistry and Chemical Technology, University of Zimbabwe (1993)</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Licensed Class 2 Wastewater Treatment Plant Operator (Virginia)</b> <b>Virginia PE 0402040167</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Dr Mutoti has over 26 years of experience in the field of water and wastewater and has held various positions in the public, academic and private consulting sectors. In the past, Dr. Mutoti has held positions as Chemist and Water/Wastewater Laboratory manager, municipal Water/Wastewater Process Engineer responsible for treatment process optimization and troubleshooting for facilities up to 162 MGD. He has taught both undergraduate and graduate level water and wastewater engineering courses as a Professor and has been involved in higher level research projects. Dr. Mutoti has authored and co-authored several journal and newsletter articles and presented at various conferences. He has many years of consulting engineering experience design and operating water and wastewater facilities. His experience includes the street design, pocket park improvements, roadway enhancements, drainage studies, process and design, water and wastewater master planning, drainage design permitting, detention and filtration of stormwater, open channel and pipe flow drainage systems, created wetlands structures, bioretention, design of hydraulic control structures. wastewater system design, potable water system design and conceptual planning and design for coastal restoration projects. In addition, Ignatius has extensive experience delivering complex infrastructure, open space, and/or capital projects for government clients involving coordination across multiple departments and agencies.</p>
<b>Experience includes:</b>
<u><b>St Brides Water Treatment Plant, Virginia Department of Corrections; Chesapeake, VA</b></u> In 2009, key Pivotal staff developed a pilot protocol for testing the performance of LayneOX® natural greensand media, reported to be more efficient than artificially coated media used at the St. Brides WTP. The actual pilot study was performed by a third party – Blueleaf Water, out of Massachusetts. Ignatius completed a preliminary engineering report with recommendation for process flow modification based on the results of the pilot study. The report was approved by the Virginia Department of Health and the project is currently in final



## **TEC Professional Services Questionnaire**

design stage.

### **Write Roads Improvements; New Orleans, LA**

Mr. Mutoti serves as the Quality Assurance Engineer for this project. The project includes removing the existing street, drainage and sewer structures and designing new alignment and profile, drainage and sewer structures. As a QA/QC Engineer, Ignatious ensure that this Pivotal project has a comprehensive QA/QC plan to make sure our procedures and documentation conforms to our corporate policies and our client's requirements.

### **Dahlgren Wastewater Treatment Plant, King George County Service Authority; George County, VA**


Phase III – 2012 to 2015 (\$2.4 million): The project included Pre-anoxic integrated fixed film activated sludge (IFAS) denitrification pilot study, Preliminary engineering report, and 1.0 MGD final design for required upgrades including instrument, controls and SCADA and construction administration and start-up and O&M manual to meet NPDES discharge limitations for total nitrogen of 3.0 mg/L and total phosphorus of 0.3 mg/L. Pivotal staff served as the lead engineer responsible for developing the Pilot Study protocol including sampling and testing plan and interpretation of pilot study data. Ignatius then translated the results of the pilot study into a full-scale design, completing the process design and reviewing plans, developing the SCADA sequence of operation and related specifications, overseeing the construction of the project, start-up, training, process optimization, preparation of O&M manual and SCADA debugging.

The project was completed on time, and produces effluent quality well below the permit limitations.

Phase II – 2007 included converting the existing Orbal oxidation from extended aeration to enhanced biological nitrogen and phosphorus removal, optimize chemical usage and operator training. Dr. Mutoti successfully converted the facility from extended aeration mode to BNR mode and optimized chemical usage. The result was over 75 % increase in nutrient removal reduction in chemical (alum & soda ash) usage and significantly reduced operator time and has net annual savings of \$65,000 (2007).

Phase I- 1.0 MGD Dahlgren WWTP Upgrade (2003-2005): Project included preliminary design, final design, SCADA implementation, construction period services, start-up assistance and preparation of the Operation and Maintenance manual and applying for a Certificate to Operate for Plant upgrade from 0.325 MGD three-ring Orbal to 1.0 MGD 4-ring Orbal Oxidation ditch. Dr. Mutoti was involved with construction period services, the preparation of O&M Manual and application for a CTO. He was instrumental in identifying and preparing components of the new upgrades that qualified for BNR Credit, resulting in the Client receiving \$1.045 million dollars in rebate from DEQ for installing BNR components.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Terry Elnaggar, PE; Sr. Civil/Environmental Engineer</b>
<b>Project Assignment:</b>
<b>Sr. Civil Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>8</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>MS / 1988 / Civil and Environmental Engineering / Univ. of California, Berkley</b>
<b>BS / 1985 / Civil Engineering / Louisiana State University</b>
<b>Active registration: Year first registered/discipline:</b>
<b>LA PE #23832 – Civil/Environmental</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Elnaggar serves as a Principal of Pivotal Engineering LLC. He is the lead civil and environmental engineer for the company. His 30 years of experience includes project management and design work in roadways, drainage, sewer, earthen levees, floodwalls, floodgates and pump stations. He has performed multiple engineering projects for public and private clients on the local, state and federal level. He has served as Project Design Manager for numerous projects including, pavement widening and rehabilitation work. He takes a hands-on approach to successfully managing the design, QA/QC, stakeholder coordination, discipline leads, and schedule management. He has managed and prepared design-build construction plans, utility coordination, drainage, stormwater management, right-of-way plats, complex E&amp;SC, environmental documentation/permitting, and environmental mitigation/restoration. He has also served on the construction program management side with both municipal, and industrial clients, providing oversight of projects designed by other consultants, providing design reviews and coordination between the consultant and the multiple other agencies involved. His experience includes design and construction management for civil and environmental projects including municipal and industrial solid waste permitting, risk assessments, water permitting and compliance, air permitting and compliance, emission inventories and reporting, groundwater investigations, regulatory compliance, environmental process design, permitting, and waste treatment system design.</p>
<b>Experience includes:</b>
<b><u>East Bank Water Treatment Plant Upgrade; Jefferson Parish, LA</u></b>
<p>Mr. Elnaggar served as the Project Engineer for this project. Pivotal Engineering LLC designed the full Power &amp; Instrumentation systems for the Main East Bank Water Treatment Plant in Jefferson Parish, Louisiana. The new facility is designed for a capacity of 40 MGD with the ability to expand to 60 MGD in the future. The main scope consisted of providing a triple redundancy 13.8KV, feeders to the main 1200 A, 13.8 KV, 500MVA Gear which in turn provides 13.8KV power to (2) double ended unit substations. A bank of Generators also provides emergency power during the loss of main power as another back up. Pivotal provided over 250 electrical sheets for this facility due to its complexity.</p>



## **TEC Professional Services Questionnaire**

### **Evaluate Implementation of An Automated Water Service Metering; Jefferson Parish, LA**

Mr. Elnaggar served as the Project Engineer for this project. Pivotal was retained by Jefferson Parish under a prime consultant Digital Engineering to evaluate and test the existing Jefferson Parish water service metering system, accuracy, and billing system. Based on the evaluation and testing results the team recommended an Automated Meter Reading (AMR) and Automatic Metering Infrastructure (AMI) for the existing 164,660 water service meters. This study evaluated multiple vendors and AMR/AMI systems to compare fixed vs cellular network, FCC licensed vs unlicensed, meter data management system, and customer portal. Further, the study conducted survey of existing water meter cast iron and plastic underground boxes of different shapes, sizes and manufacturers to recommend on how to retrofit existing meter box to accommodate the proposed AMR/AMI system.

### **Clearview & Airline Intersection Improvements; Jefferson Parish, LA**

Mr. Elnaggar served as the Project Engineer for this project. Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.

### **Wright Road Improvements; New Orleans, LA**

Mr. Elnaggar served as the Project Engineer for the design of Wright Road located in New Orleans East. The project included subsurface drainage, roadway paving, curb and gutter, utility's location and relocation, sidewalks. Mr. Elnaggar was responsible for coordination and oversight of all engineering and design tasks, and construction management for this project. Mr. Elnaggar also ensured all design guidelines were followed, the project remained within budget, milestone dates were met, and the needs and concerns of the client were addressed. The project was valued at \$9 million.

### **RR 016-019 B.W. Cooper, Gert Town Improvements; New Orleans, LA**

Mr. Elnaggar served as the Project Engineer for this project. Pivotal is currently retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for nine (9) blocks (3245 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

### **Broadmoor Lift Station Upgrades; Shreveport**

The Project includes the rehabilitation of the facility building including pumps, pipes, screening system, odor control system, and designing of an access road. Mr. Elnaggar reviewed, designed and sized the temporary by pass system; reviewed and designed the horizontal and vertical alignment of a concrete pavement access road. Further, Mr. Elnaggar reviewed and managed the project design package including the specification, capitol project estimate and Construction document.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Sundiata Marcelin, PE; Sr. Civil Engineer</b>
<b>Project Assignment:</b>
<b>Civil Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>2+</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>B.S. Civil Engineering, 2004</b>
<b>Active registration: Year first registered/discipline:</b>
<b>2013 / Civil Engineering / LA PE # 38589</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Marcelin has over 10 years of experience in both civil and structural engineering as well as over 15 years of experience in construction management. This civil engineering experience includes complete urban roadway restoration design with new sewage, water, drainage, and full right-of-way layout in Jefferson, St Bernard, and Orleans Parish. Mr. Marcelin has extensive knowledge of the civil infrastructure and design standards of Orleans Parish. This knowledge base allows him to efficiently review designs for both above ground and sub-surface infrastructure. His project experience includes roadway, traffic analyses, pavement structural design, use of geosynthetics, geometric design, line and grade analyses, pavement marking, intersection improvements, pedestrian and bicycle lanes or paths, excavation and embankment, traffic, drainage/storm water management, water and wastewater systems.</p>
<b>Experience includes:</b>
<p><b><u>Wright Road Improvements; New Orleans, LA</u></b></p> <p>Mr. Marcelin serves as a senior engineer for this project, responsible for project coordination, generation of overall design (including calculations and modeling) and the project schedule. Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.</p>
<p><b><u>RR016 BW Cooper Gert Town Dixon Group C; New Orleans, LA</u></b></p> <p>Mr. Marcelin is the senior engineer for this project. He is tasked with the completing above and below ground design of the restoration of approximately nine (9) blocks (3,245 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design includes the horizontal and vertical roadway alignment and right-of-way design complete with new drainage structures based on an updated more resilient analysis procedure, limited waterline and sewer line replacement, and Sidewalk and ADA ramp layout. His work also required coordination and</p>

## **TEC Professional Services Questionnaire**

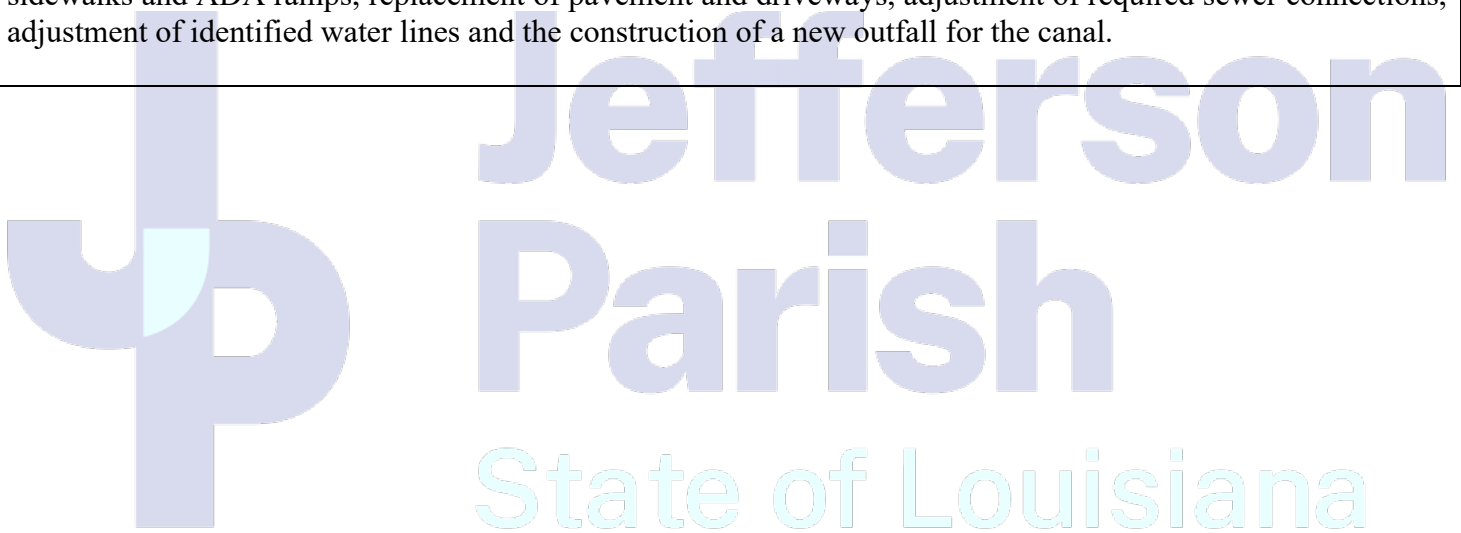
compatibility with adjacent active and future construction projects.

### **RR076 Lake Vista Group D; New Orleans, LA**


Mr. Marcelin serves as a senior engineer for this project, responsible for project coordination, generation of overall design (including calculations and modeling) and the project schedule. Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for five (5) blocks (1,750 ft) in the neighborhood of Lake Vista. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

### **14th Street Drainage Improvements; Jefferson Parish, LA**

Mr. Marcelin serves as a senior engineer for this project, responsible for project coordination, generation of overall design (including calculations and modeling) and the project schedule. Overall, the project goal is to improve the drainage network along 14th Street. Project scope items include the following: construction of new sidewalks and ADA ramps, replacement of pavement and driveways, adjustment of required sewer connections, adjustment of identified water lines and the construction of a new outfall for the canal.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Bryan B. Smith, PE; Environmental Engineer</b>
<b>Project Assignment:</b>
<b>Environmental Project Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>4</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>BS / 2011 / Environmental Engineering</b>
<b>MS / 2014 / Civil and Environmental Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>2015 / Environmental / PE # 43843</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Smith serves as a senior environmental engineer and construction manager with Pivotal Engineering. Mr. Smith has more than eight (8) years of experience with the public works and environmental project types, including the design of subsurface utilities and roadways. He is well-rounded in technical approaches for the design, site inspection and coordination of municipal infrastructure projects.</p> <p>Additionally, he is well established in both state and federal regulations for water quality, NPDES compliance and SWPPP preparation. His projects include both public and private sector that require his time in both the office and the field.</p>
<b>Experience includes:</b>
<b><u>East Bank Water Treatment Plant Upgrade; Jefferson Parish, LA</u></b>
<p>Mr. Smith served as an environmental engineer and design consultant for this project. Pivotal Engineering LLC designed the full Power &amp; Instrumentation systems for the Main East Bank Water Treatment Plant in Jefferson Parish, Louisiana. The new facility is designed for a capacity of 40 MGD with the ability to expand to 60 MGD in the future. The main scope consisted of providing a triple redundancy 13.8KV, feeders to the main 1200 A, 13.8 KV, 500MVA Gear which in turn provides 13.8KV power to (2) double ended unit substations. A bank of Generators also provides emergency power during the loss of main power as another back up. Pivotal provided over 250 electrical sheets for this facility due to its complexity.</p>
<b><u>Evaluate Implementation of An Automated Water Service Metering; Jefferson Parish, LA</u></b>
<p>Mr. Smith served as an environmental engineer and design consultant for this project. Pivotal was retained by Jefferson Parish under a prime consultant Digital Engineering to evaluate and test the existing Jefferson Parish water service metering system, accuracy, and billing system. Based on the evaluation and testing results the team recommended an Automated Meter Reading (AMR) and Automatic Metering Infrastructure (AMI) for the existing 164,660 water service meters. This study evaluated multiple vendors and AMR/AMI systems to</p>

## **TEC Professional Services Questionnaire**

compare fixed vs cellular network, FCC licensed vs unlicensed, meter data management system, and customer portal. Further, the study conducted survey of existing water meter cast iron and plastic underground boxes of different shapes, sizes and manufacturers to recommend on how to retrofit existing meter box to accommodate the proposed AMR/AMI system.

### **Clearview & Airline Intersection Improvements; Jefferson Parish, LA**

Mr. Smith served as an environmental engineer and design consultant for this project. Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.

### **Wright Road Improvements; New Orleans, LA**

Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. Mr. Smith served as an environmental engineer and design consultant for this project. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

### **Water Effectiveness in Broadmoor; New Orleans, LA**

For this project, Mr. Smith reviewed the design drawings, managed geotechnical soil investigation and performed water quality testing for on-site, pre-construction conditions. His knowledge of green infrastructure design, water quality requirements for such installations and generation construction experienced allowed him to positively impact the project and ensure that the tasks were completed on time.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Madison Mikes, EI; Environmental Project Engineer</b>
<b>Project Assignment:</b>
<b>Project Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>2</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>MS / 2020 / Environmental Engineering</b>
<b>BS / 2017 / Environmental Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>LA EI #33878 - Environmental</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Ms. Mikes serves as project engineer with Pivotal Engineering. She assists within environmental engineering projects and has been able to add considerable value in a short amount of time. She has served as project engineer on a number of project types ranging from design and permitting of wastewater treatment systems to air permitting and compliance monitoring. Her projects include both public and private sector that require her time in both the office and the field.</p>
<b>Experience includes:</b>
<p><b><u>Roy S. Nelson Generating Plant Solid Waste Permitting; Westlake, LA</u></b></p> <p>Assisted with solid waste permit renewal application preparation, attachment compilation, and review for the Nelson Plant Coal Ash Disposal Landfill, Unit 6 Settling Pond, and Wastewater Neutralization Basin.</p>
<p><b><u>Entergy Nelson SRA Pond Recommendations for Handling Solids Memo; Westlake, LA</u></b></p> <p>Conducted a literature review on dioxin and furans to assess their distribution around the globe. Applied this research and calculated RECAP standards to develop a recommendation's memo for handling solids containing minor concentrations of dioxins found at the Nelson SRA pond.</p>
<p><b><u>Chemical Waste Management Generator Regulatory Permit; Sulphur, LA</u></b></p> <p>Calculated estimated annual emissions for a 500-kW emergency engine based on specifications and federal regulations. Completed a Regulatory Permit Notification Form for the utilization of this generator</p>
<p><b><u>Chemical Waste Management Pilot Testing Case by Case Insignificant Activity Notification Form; Sulphur, LA</u></b></p> <p>Implemented Tanks 4.0.9d program and calculated estimated VOC and PM emissions from handling and processing soils spiked with petroleum fuel that could potentially be emitted during pilot testing of a soil treatment system. Completed a Case-by-Case Insignificant Activity form using calculated emission data.</p>



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Eliot Guerin, EI; Civil Project Engineer</b>
<b>Project Assignment:</b>
<b>Project Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>3</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>2018 / E.I. Civil Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
E.I. TX
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Guerin is a civil designer with over three (3) years of experience at Pivotal Engineering. Throughout this time, he has focused on design of roadways, sanitary sewer systems and storm drainage collection systems (including applicable green infrastructure components) More specifically, he is well-established in traffic analyses, pavement structural design, use of geosynthetics, geometric design, line and grade analyses, pavement marking, intersection improvements, pedestrian and bicycle lanes or paths, excavation and embankment, traffic, drainage/storm water management, water and wastewater, and landfills. He is a very competent design engineer with strong skillset in hydraulic &amp; hydrologic modeling and AutoCAD Civil 3D.</p>
<b>Experience includes:</b>
<p><u><b>East Bank Water Treatment Plant Upgrade; Jefferson Parish, LA</b></u></p> <p>Mr. Guerin served as a civil designer for this project. Pivotal Engineering LLC designed the full Power &amp; Instrumentation systems for the Main East Bank Water Treatment Plant in Jefferson Parish, Louisiana. The new facility is designed for a capacity of 40 MGD with the ability to expand to 60 MGD in the future. The main scope consisted of providing a triple redundancy 13.8KV, feeders to the main 1200 A, 13.8 KV, 500MVA Gear which in turn provides 13.8KV power to (2) double ended unit substations. A bank of Generators also provides emergency power during the loss of main power as another back up. Pivotal provided over 250 electrical sheets for this facility due to its complexity.</p>
<p><u><b>Cleveland &amp; Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA</b></u></p> <p>Mr. Guerin served as a civil designer for this project. 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>

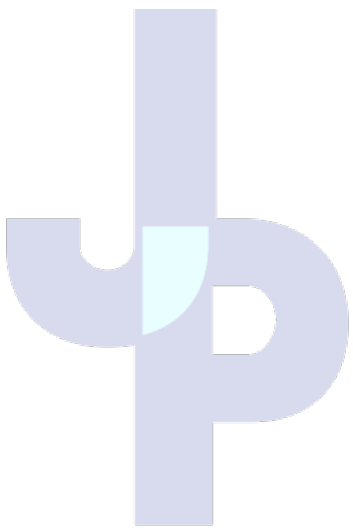
## **TEC Professional Services Questionnaire**

### **Wright Road Improvements; New Orleans, LA**

Mr. Guerin serves as a civil designer for this project. The project includes removing the existing street, drainage and sewer structures and designing new alignment and profile, drainage and sewer structures. He was responsible for designing horizontal and vertical roadway alignment, drainage collection systems, water line replacements, sewer line replacements, geometrics of the streets as well as preparing both capital cost estimates and construction documents.

### **RR 016-019 B.W. Cooper, Gert Town Improvements; New Orleans, LA**


Mr. Guerin served as a civil designer for this project. Pivotal is currently retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for nine (9) blocks (3245 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. The designs of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Jefferson  
Parish  
State of Louisiana



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Kepal Patel, EI; Electrical Project Engineer</b>
<b>Project Assignment:</b>
<b>Project Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>2</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>BS Electrical Engineering 2019</b>
<b>Active registration: Year first registered/discipline:</b>
<b>2019 LA EI # 0034453</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Patel serves as an electrical/roadway designer for Pivotal Engineering. Mr. Patel designing experience includes CADD work, generally to show the pole location, laying out circuit design from the power source to individual poles, type of foundation used, type of fixture used and include its specifications. Currently, he is working on several JP streetlight projects and his role requires voltage drop calculations, conduit sizes, wire sizes, grounding and bonding etc. and thus determine what kind of electrical components would be required for the installations.</p>
<b>Experience includes:</b>
<p><u><b>East Bank Water Treatment Plant Upgrade; Jefferson Parish, LA</b></u></p> <p>Mr. Patel serves as an electrical/roadway designer. Pivotal Engineering LLC designed the full Power &amp; Instrumentation systems for the Main East Bank Water Treatment Plant in Jefferson Parish, Louisiana. The new facility is designed for a capacity of 40 MGD with the ability to expand to 60 MGD in the future. The main scope consisted of providing a triple redundancy 13.8KV, feeders to the main 1200 A, 13.8 KV, 500MVA Gear which in turn provides 13.8KV power to (2) double ended unit substations. A bank of Generators also provides emergency power during the loss of main power as another back up. Pivotal provided over 250 electrical sheets for this facility due to its complexity.</p>
<p><u><b>Wright Road Improvements; New Orleans, LA</b></u></p> <p>Mr. Patel serves as an electrical/roadway designer. Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.</p>

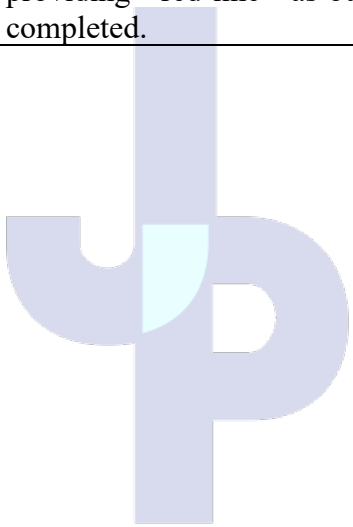
## **TEC Professional Services Questionnaire**

### **N. Sibley & Boone Lift Station Improvements; Jefferson Parish, LA**

Mr. Patel serves as an electrical/roadway designer. 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.


### **Veolia North America East Bank Treatment Plant – Gear Automation**

Mr. Patel serves as an electrical/roadway designer. Pivotal was retained to provide a design for gear automation for the East Bank Treatment Plant. A project completed by Pivotal was the engineering and design cost estimate for installation of new main electrical utility ATS. The scope of this project included: reviewing current 13.8kv switchgear drawings and plant main electrical distribution drawings, investigating alternatives and manufacturer's information, presenting alternatives and discussing options, designing the actual installation, providing construction drawings and equipment specifications for bidding, assisting in equipment installation inspections and submitting reviews during construction, assisting in equipment start-up check-outs, and providing "red-line" as-built drawings to update S&WB drawing files once the project construction was completed.



Jefferson  
Parish  
State of Louisiana

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Irish Jones; Licensed Electrical &amp; Building General Contractor</b>
<b>Project Assignment:</b>
<b>Electrical Designer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>8</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>5 years of college in Electrical Engineering – University of Texas at Arlington</b>
<b>Active registration: Year first registered/discipline:</b>
<b>2014 / Bldg&amp;Electric / LA #59972</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Jones serves as the senior electrical designer of Pivotal Engineering. He has over 40 years of experience in designing electrical installations (power distributions) for industrial and commercial applications of all magnitudes. He obtained his first-Class A electrical license in 1967 in Georgia. Being an electrical contractor for over 40 years, Mr. Jones has developed an extensive experience in not only designing and laying out electrical designs, but also in supervising the installations in the construction phase. His expertise allows the team to provide the best and most economical electrical design for any facility. Due to his experience as an electrician and a contractor, Pivotal will not need to depend on the in- plant electrician while conducting the electrical components field investigations.</p>
<b>Experience includes:</b>
<b><u>Cleveland &amp; Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA</u></b>
<p>Mr. Jones serves as the senior electrical designer for this project. 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><u>East Bank Water Treatment Plant Upgrade; Jefferson Parish, LA</u></b>
<p>Mr. Jones served as the senior electrical designer for this project. Pivotal Engineering LLC designed the full Power &amp; Instrumentation systems for the Main East Bank Water Treatment Plant in Jefferson Parish, Louisiana. The new facility is designed for a capacity of 40 MGD with the ability to expand to 60 MGD in the future. The main scope consisted of providing a triple redundancy 13.8KV, feeders to the main 1200 A, 13.8 KV, 500MVA Gear which in turn provides 13.8KV power to (2) double ended unit substations. A bank of Generators also provides emergency power during the loss of main power as another back up. Pivotal provided over 250 electrical sheets for this facility due to its complexity.</p>

## **TEC Professional Services Questionnaire**

### **Smith & Toulouse Lift Station Upgrades; Jefferson Parish, LA**

Mr. Jones serves as the senior electrical designer for this project. 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 & Toulouse Lift Station Upgrades.

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.

### **Broadmoor Lift Station Upgrades; Shreveport, LA**

Mr. Jones serves as the senior electrical designer for the rehabilitation of the Broadmoor Lift Station Improvements for the City of Shreveport. The Project includes the rehabilitation of the facility building including pumps, pipes, screening system, odor control system, and designing of an access road. Project management responsibilities included budgeting; invoicing; executing monthly progress meetings; preparing and tracking project schedules; and interacting with the client, owner, contractors and various permitting agencies.

### **CC1 Lift Station Improvements; Luling LA**

Mr. Jones serves as the senior electrical designer for this project. 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 were performed and 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.

### **Patriot Lift Station; Jefferson Parish, LA**

Mr. Jones serves as the senior electrical designer for this project. Pivotal was retained to perform a full electrical design with specifications for a duplex lift station (Patriot) for Jefferson Parish. 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.

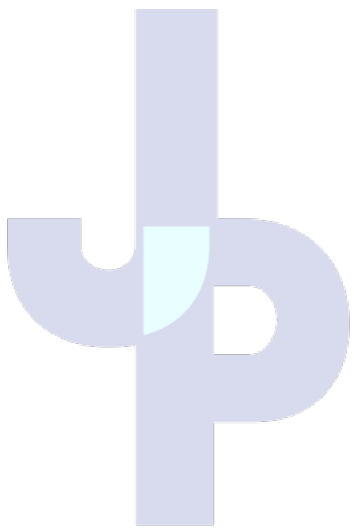
## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Javier Rondan Zambra; Civil Project Engineer</b>
<b>Project Assignment:</b>
<b>Project Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>1</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>M.S. Civil Engineering - 2021</b>
<b>B.S. Civil Engineering - 2018</b>
<b>Active registration: Year first registered/discipline:</b>
<b>n/a</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Rondan serves as a civil project engineer with over two (2) years of experience in the transportation sector with a special focus on highway design, construction, and maintenance. He is knowledgeable in traffic engineering design and operation. He is well versed in construction scheduling, means &amp; methods for utility installations and green infrastructure integration.</p>
<b>Experience includes:</b>
<p><b><u>Smith &amp; Toulouse Lift Station Upgrades; Jefferson Parish, LA</u></b></p> <p>This project consists of abandonment of existing dry well and retrofit of existing wet well, construction of new wet well, valve pit, and force main bypass, and installation of new sewer and pipes and sewer force main, as well as removal and replacement of asphalt roadway with concrete roadway, and drainage improvements. Mr. Rondan's responsibilities include plan drafting, budget and quantities estimation, and documentation for project submittal.</p>
<p><b><u>14th Street Drainage Improvements; Jefferson Parish, LA</u></b></p> <p>Mr. Rondan's involvement in this project consists of plan drafting, quantities estimation, cost estimation and documentation for project submittal. Overall, the project goal was to improve the drainage network along 14th Street. Project scope items include the following: construction of new sidewalks and ADA ramps, replacement of pavement and driveways, adjustment of required sewer connections, adjustment of identified water lines and the construction of a new outfall for the canal.</p>
<p><b><u>Bonnabel Bike Path; Metairie Rd to Levee; Jefferson Parish, LA</u></b></p> <p>Pivotal Engineering was retained by the Jefferson Parish to provide Drainage Analysis, A/E Design of the Bonnabel Bike Path (Metairie Rd to Levee line). Pivotal engineering staff performed a drainage analysis to calculate 10-year discharge from the identified contributing areas. As this project was developed to increase</p>

## **TEC Professional Services Questionnaire**

community access to quality-of-life resources (Lake Pontchartrain as well as nearby open-space places), maximum attention was given to the configuration of the bike path along Bonnabel Street. Existing trees were integrated into the design as well as standard traffic control devices. Mr. Rondan contributes to the plan drafting for this project.





**Jefferson**  
**Parish**  
State of Louisiana



## 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>Evaluate Implementation of An Automated Water Service Metering Jefferson Parish, LA</b></p> <p>Jefferson Parish, Capital Projects 1221 Yenni Building, Suite 906 Jefferson, LA 70123 (504) 736-6833</p>	<p>Pivotal was retained by Jefferson Parish under a prime consultant Digital Engineering to evaluate and test the existing Jefferson Parish water service metering system, accuracy, and billing system. Based on the evaluation and testing results the team recommended an Automated Meter Reading (AMR) and Automatic Metering Infrastructure (AMI) for the existing 164,660 water service meters. This study evaluated multiple vendors and AMR/AMI systems to compare fixed vs cellular network, FCC licensed vs unlicensed, meter data management system, and customer portal. Further, the study conducted survey of existing water meter cast iron and plastic underground boxes of different shapes, sizes and manufacturers to recommend on how to retrofit existing meter box to accommodate the proposed AMR/AMI system.</p> <div style="display: flex; justify-content: space-around;">   </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	\$300,000	\$300,000

## 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><b>Evaluate Implementation of An Automated Water Service Metering Jefferson Parish, LA</b></p> <p>Jefferson Parish, Captial Projects 1221 Yenni Building, Suite 906 Jefferson, LA70123 (504) 736-6833</p>	<p>Pivotal teamed with Digital Engineering for the Advanced Metering Infrastructure for Water Services in Jefferson Parish. Pivotal was responsible for procurement document development &amp; comprehensive management, which included:</p> <p><b>Phase 1: Development of RFP, Procurement Documents, Management of Communication and Billing System</b></p> <p><b>Task 1 – Review Existing Information</b> Assisted with conducting a commercial meter survey of 5% of the 2” and above meters in the existing system to assess and determine the different types of commercial meter installations that were required.</p> <p><b>Task 3 – AMI Slow Start</b> Provided a competent inspector to observe and inspect the installation of new water meters for the AMI slow start.</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	\$15,912	\$15,912




## 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>Clearview Airline Intersection Improvements</b>  <b>Jefferson Parish, LA</b></p> <p>Mark Drewes, PE  Jefferson Parish Engineering Department  1221 Elmwood Pkwy., Suite 802  (504) 736-6000</p>	<ul style="list-style-type: none"> <li><i>Roadway Paving and Curb Design</i></li> <li><i>Subsurface Drainage</i></li> <li><i>Construction Management</i></li> </ul> <p>Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.</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>
2019	\$ 4.5 M	\$ 4.5 M


## 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>Wright Road Improvements</b> New Orleans, LA</p> <p>City of New Orleans 1300 Perdido Street New Orleans, LA (504) 658-8000</p>	<ul style="list-style-type: none"> <li><i>Roadway Paving and Curb Design</i></li> <li><i>Subsurface Drainage and Sewer Design</i></li> <li><i>Construction Management</i></li> </ul> <p>Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.</p> <ul style="list-style-type: none"> <li>Reviewed the required topographical survey of existing site conditions prior to start of design phase.</li> <li>Designed new drainage network for 10 years return period.</li> <li>Designed new gravity sewer collection system to replace existing system that had been in service for more than 40 years.</li> <li>Designed new water main and located it on the median.</li> <li>Designed new street for tie-in to side streets.</li> <li>Coordinated all efforts with various private &amp; public utility companies, state &amp; local agencies, as well as civic &amp; community organizations.</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>
2020	\$ 9 M	\$ 9 M

## 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>RR016: B.W. Cooper, Gert Town, Dixon Group C New Orleans, LA</b></p> <p>Khalid L. Saleh, Ph.D, Senior Design Engineer, City Of New Orleans DPW, 1300 Perdido Street New Orleans, LA 70112 (504) 658-8208 ksaleh@nola.gov</p>	<p>Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs 9 blocks (3245 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&amp;WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.</p> <p>Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase; and for coordinating all efforts with various private &amp; public utility companies, state &amp; local agencies, as well as civic &amp; community organizations.</p> <p>This project was federally funded.</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>
2021	\$ 4.8 M	\$25,149.00

## 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>RR017 BW Cooper, Gert Town Dixon Group D New Orleans, LA</b></p> <p>Khalid L. Saleh, Ph.D, Senior Design Engineer, City Of New Orleans DPW, 1300 Perdido Street New Orleans, LA 70112 (504) 658-8208 ksaleh@nola.gov</p>	<p><i>Drainage, Sewer, &amp; Waterline Improvements</i></p> <p>Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 12 blocks (4,015 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&amp;WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project. Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.</p> <p>Pivotal is also responsible for coordinating all efforts with various private &amp; public utility companies, state &amp; local agencies, as well as civic &amp; community organizations.</p> <p>This project was federally funded.</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>
2021	\$ 5.3 M	\$520,000

## 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>Backflow Prevention Services, LLC</b>  <b>New Orleans, LA</b></p> <p>Mitch LeBas, PE  Sewerage &amp; Water Board  8800 S Claiborne Ave, New Orleans,  LA 70118  225-763-6960</p>	<p>The project involved citywide analysis of to determine the appropriate type of Backflow Prevention and Cross-Connection protection. The project included the following specific tasks:</p> <p>Create the policy and procedure manual explaining the rights and obligations of customers who are connected to SWB water system.</p> <p>Pivotal Engineering worked closely with SWB to evaluate existing water customer data and compliance tracking system.</p> <p>The size of the project included (134,972 metered connections). The result of the contamination risk level for non-residential facilities will be used to create a computer data base that can be accessed by SWB personnel to follow up compliance status of each non-residential water supply customer.</p> <p>Prepare a plumbing packet and provide workshops regarding the BFP installation requirements to customers and plumbing professionals.</p> <p>Pivotal's licensed inspection staff assists SWB to inspect installations and identify potential cross connections and ensure backflow preventer requirements are met in accordance with LDH regulations and IPC standards.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019	\$ 8.1 M	\$ 8.1 M

## 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>PONO BFP Installation</b>  <b>New Orleans, LA</b></p> <p>William Rivera, PE            Project Manager            Port of New Orleans            1350 Port of New Orleans            Place            New Orleans, LA            (504) 528-3294</p>	<p>The project involved the analysis of multiple locations and requirements to determine the appropriate type of protection. Once that was determined the appropriate backflow preventers were selected and located on multiple Port Of New Orleans properties. The scope included domestic water protection as well a fire water protection. In addition, the analysis of the domestic water supply and protection for all shipping that is supplied water by the Port Of New Orleans was performed. Pressure and flow testing was monitored and used to determine the baseline conditions available and to identify areas where additional pressure would be required for proper operation and additionally to select the appropriate booster pump packages to meet these requirements.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019	\$1.5 M	\$ 1.5 M



## 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>	
<p style="text-align: center;"><b>East Bank Water Treatment Plant Upgrade, Jefferson Parish, LA</b></p> <p style="text-align: center;">Jefferson Parish Department of Sewer 1221 Yenni Building, Suite 803 Jefferson, LA 70123 (504) 736-6661</p>	<p>Pivotal Engineering LLC designed the full Power &amp; Instrumentation systems for the Main East Bank Water Treatment Plant in Jefferson Parish, Louisiana. The new facility is designed for a capacity of 40 MGD with the ability to expand to 60 MGD in the future.</p> <p>The plant (P4) is a large industrial facility and consisted of the below process areas:</p> <ol style="list-style-type: none"> <li>1. Flash Mix (Area 10)</li> <li>2. Precipitators (Area 11)</li> <li>3. Operations Center (Area 13)</li> <li>4. Filters (Area 30)</li> <li>5. P4 Pump Room (Area 50)</li> <li>6. Remote PS (Area 51)</li> <li>7. Bulk Chemical Storage (Area 60)</li> <li>8. Chemical Feed (Area 61)</li> <li>9. Hydrofluosilicic (HFA) Acid (Area 67)</li> <li>10. Waste Washwater Equalization (Area 70)</li> </ol> <p>The main scope consisted of providing a triple redundancy 13.8KV, feeders to the main 1200 A, 13.8 KV, 500MVA Gear which in turn provides 13.8KV power to (2) double ended unit substations. A bank of Generators also provides emergency power during the loss of main power as another back up. Pivotal main design efforts also included:</p> <ol style="list-style-type: none"> <li>a. Design the controls logic ladder diagrams for all of the local and remote operations of the plant as per the P&amp;IDs.</li> <li>b. Design all the duct bank sections and manhole schedules required to bring the MV feeders from the Main 13.8kV building to the two (2) 13.8kV-480V double-ended unit substations.</li> <li>c. Design 5000 A, 3P, MCCs with Main/Tie/Main and Kirk Key Interlocks.</li> <li>d. Design of Low Voltage (LV) duct bank from Generator-backed switchgear</li> <li>e. Design of Miscellaneous Site Work (site lighting, valve vaults, flowmeter vaults, etc.)</li> <li>f. Design the main indoor service rated switchgear, lighting panel boards, step down transformers, and auxiliary panels, Pump Room VFD's, MCC's and PLC's</li> <li>g. Design of Single Line Diagrams for Main P4 Process Facility (Areas 10 (Flash Mix), 11 (Precipitators), 13 (Clearwell, Gallery, Operations), 30 (Filters), 50 (P4 Pump Room), 60 (Chemical Feed), and 68 (Chemical Storage)).</li> <li>h. Design of Equipment Elevations for Main P4 Process Facility</li> <li>i. Design of Control Schematics for equipment in the Main P4 Process Facility (Areas 10 (Flash Mix), 11 (Precipitators), 13 (Clearwell, Gallery, Operations), 30 (Filters), 50 (P4 Pump Room), 60 (Chemical Feed), and 68 (Chemical Storage)).</li> <li>j. Design of all low voltage (120/208 and/or 120/240) step-down general-purpose dry-type transformers, panelboards and their corresponding schedules for the Main P4 Process Facility (Areas 10 (Flash Mix), 11 (Precipitators), 13 (Clearwell, Gallery, Operations), 30 (Filters), 50 (P4 Pump Room), 60 (Chemical Feed), and 68 (Chemical Storage)).</li> </ol> <p>Pivotal provided over 250 electrical sheets for this facility due to its complexity.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2015	\$ 3.6 M	\$ 3.6 M

## 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 style="text-align: center;"><b>St Brides Water Treatment Plant</b>  <b>Virginia Department of</b>  <b>Corrections</b>  <b>Chesapeake, VA</b></p> <p>Virginia Department of Corrections  801 Sanderson Rd.  Chesapeake, VA 23322  (757) 421-0095</p>	<p>Project #1 (2004): Scope of work included: preliminary engineering, final design of water treatment facility, a new 500 gpm well, modifications to an existing 600 gpm Well, 500,000-gallon elevated storage tank, SCADA system and sequence of operation, construction administration and start-up and O&amp;M Manual. Key Pivotal staff were involved with construction period services, SCADA and sequence of operation, Start-up and prepared O&amp;M Manual for the Plant.</p> <p>After operating for three years, the St. Brides WTP did not satisfactorily remove iron and manganese. Pivotal staff investigated the problem and conducted several bench-scale tests determine operational requirements to improve the efficiency of the greensand. He identified that the poor removal efficiency was cause by the presence of very high concentration of dissolved organics up to 11 ppm in the groundwater. A hydro-geological study by Apex Inc confirmed that the wells were not under the influence of surface water but rather cause of high organics was due to the natural formation of the soils in the area. So, drilling a new well was not an option, as all three existing wells exhibited high levels of dissolved organics than would be expected.</p> <p>Project # II (2010-2013: Scope for the WTP final design improvements included changing out media to LayneOX® based on pilot study findings and modifying the existing Siemens greensand filter vessels; adding one (1) reverse osmosis train, an additional well and two well buildings, developing a new SCADA sequence of operation for the WTP and integrating the water treatment and the wastewater treatment plants for view from both the WTP and the wastewater treatment plant.</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>
2013	\$4.2M	\$4.2M

## 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. N/A	N/A	There are no prior/on-going litigations between Pivotal Engineering, LLC & Jefferson Parish.
2.		
3.		
4.		

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

### **PIVOTAL ENGINEERING, LLC**

**Pivotal Engineering, LLC** is a full-service engineering design firm based in New Orleans, Louisiana. Pivotal has established a reputation for providing superior service to its clients and delivering quality work on time and within budget. Pivotal's principals and staff have in excess of 200 years of combined experience in civil engineering, mechanical engineering, electrical engineering, environmental engineering and program/project management for both public and private entities across the Gulf South Region. The current staff of Pivotal has extensive experience managing a variety of complex projects, from conception to construction.

Pivotal is a certified Small Business Enterprise with both the Small Business Administration and City of New Orleans. Furthermore, Pivotal has been certified as a Disadvantaged Business Enterprise by the City of New Orleans, Sewerage and Water Board of New Orleans, the New Orleans Aviation Board and Harrah's Casino. Pivotal Engineering is also certified by the Louisiana Department of Economic Development as a Small Entrepreneurship SE (Hudson Initiative) firm.

## **TEC Professional Services Questionnaire**

### **Required Personnel/Required Firm Qualifications**

**The person or firm submitting a Statement of Qualifications shall have the following minimum qualifications:**

- 1. one principal who is a professional engineer who shall be registered as such in Louisiana**

Avinash Mehta, PE  
LA PE # 35100 Civil Engineering

- 2. a professional in charge of the project who is a professional engineer who shall be registered as such in Louisiana with a minimum of five (5) years' experience in the disciplines involved**

Avinash Mehta, PE  
LA PE # 35100 Civil Engineering

- 3. one employee who is a professional engineer registered as such in Louisiana in the field or fields of expertise required for the project (A sub-consultant may meet the requirement only if the advertised project involves more than one discipline.)**

Yoseph Shifare, PE  
LA PE# 42747 Civil Engineering

### **Evaluation Criteria**

- 1) Professional training and experience in relation to the type of work required for the engineering services**

The Pivotal Engineering staff members that will be assigned to this contract have extensive, specialized experience in Engineering Design and Construction Management for Private Entities, and Government and Municipal Agencies in the Gulf South area. Our Principals and Staff have gained this experience not only through many years of providing services to this variety of clients on a very diverse portfolio of projects, but also through focused continuing education. Pivotal Engineering's principals and staff have all been given accolades on their technical competence and knowledge of administering the contract plans and specifications per agency policy and procedure.

Our management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable team members with exceptional technical skills, and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully, within budget and schedule.

Our Team is committed to defining the project and setting expectations as our first step toward making that project a success. We as a team will apply various techniques for project estimation and cost control including:

- Set Expectations Early, Review Often
- Planning the Project Budget
- Keeping Track of Costs
- Establishing a Communication Plan
- Effective Time Management
- Project Change Control
- Use of Earned Value to Monitor Both Cost and Schedule

## **TEC Professional Services Questionnaire**

Our integrated team will provide an optimized concurrent engineering environment that provides an opportunity to substantially reduce the total cost of a project. Benefits of our integrated team with members of various skilled disciplines enable a simultaneous contribution to an early project definition and increase the likelihood of a reduced lifecycle cost by avoiding costly alterations later in the design process.

### **2) Capacity for timely completion of newly assigned work, considering the factors of type of engineering task, current unfinished workload, and person or firm's available professional and support personnel**

Pivotal Engineering has a depth of technical capabilities and expertise to complete the assigned work in a timely manner. We have the needed technical personnel to assure the Parish that all work will be performed in accordance to the contract scope of work and in strict conformance with the latest City guidelines and standards. Pivotal has the manpower, equipment, and expertise to execute any given project within a reasonable time frame. Pivotal staff has a reputation of project delivery both on time and within budget. Pivotal Engineering's current workload will allow for quick assignment of technical resources to the project at hand. The firm has the required management and field personnel readily available to begin the necessary services upon written notification.

Historically, Pivotal has provided a direct line of communication to anyone who is a representative of the client to the assigned Project Principal and Manager. It has been our goal to make communication a priority. We've provided cell lines as the first line of communication, followed by e-mail transmissions and office lines as last resorts. We do not let calls or e-mails go unanswered more than 24-hours and with this have seen huge success as it relates to our client's reliance on us as their consultant of choice.

#### **Approach to Agency Coordination:**

The Pivotal Team will identify responsible agencies as early as practical. The Team will notify the Jefferson Parish and address technically any issues of concern regarding the project's scope, potential infrastructure, environmental, social, or economic impacts that could substantially delay or prevent an agency from granting a permit or other approval that is needed for the project. The team will assure that agencies are fully engaged in the scoping of the project and the decisions regarding alternatives to be evaluated in detail in the design.

The Team understands an agency's role in the development of the project and may include the following as they relate to areas of expertise:

- Provide meaningful and early input to address concerns and impacts.
- Identify issues that could substantially delay or prevent granting of permits/approvals.
- Identify opportunities for collaboration, including participating in coordination meetings and joint field reviews, as appropriate.
- Provide timely compliance with review and comment on preliminary documents to reflect the views and concerns of their respective agencies, alternatives considered and anticipated impacts and mitigation.

#### **Approach To Coordinating Project Delivery Tasks:**

The Team will use an Integrated Project Delivery (IPD) approach that integrates staff, systems, team company's structures and professional practices into a process that collaboratively harnesses the talents and



## **TEC Professional Services Questionnaire**

insights of all participants to optimize project results, increase value to the owner, to the community, reduce waste, and maximize efficiency through all phases of design, bid, and construction.

The Integrated Project Delivery is assembling a team that is committed to collaborative processes and is capable of working together effectively. In order to accomplish this, Principal project manager will:

- Identify the Team's roles that are most important to the project.
- Consider interests and seek involvement of select additional parties, such as agency official(s), local utility companies, and other stakeholders.
- Define in a mutually understandable fashion the values, goals, interests and objectives of the project to the larger program goals.
- Identify the Team's organizational and business structure best suited to IPD that is consistent with the Team's capacity and constraints. The choice should not be rigidly bound to traditional project delivery methods, but should be flexibly adapted to the project.
- Develop project agreement(s) to define the roles and accountability of the Team members. The project agreements should be synchronized to assure that company's roles and responsibilities are defined identically in all agreements and are consistent with the agreed Team organizational and business models. Key provisions regarding compensation, obligation and risk allocation will be clearly defined and should encourage open communication and collaboration.

### **3) Location of the principal office**

Pivotal Engineering, LLC has an office located in Jefferson Parish at 3925 N. I-10 Service Rd. West, Suite 109R, Metairie, LA 70002. This shall prove to be a valuable asset to Jefferson Parish as our staff can be at the Parish's office at moment's notice to attend critical meetings.

### **4) Adversarial legal proceedings between the Parish and the person or firm performing professional services, in which the Parish prevailed, or any ongoing adversarial legal proceedings between the Parish and the person or firm performing professional services, excluding those instances or cases where the person or firm was added as an indispensable party, or where the person or firm participated in or assisted the public entity in prosecution of its claim**

Pivotal Engineering, LLC is not, nor has it ever been, involved in any litigation with the Jefferson Parish or any other Parish/State/Federal agencies.

### **5) Prior successful completion of projects of the type and nature of the engineering services, as defined, for which firm has provided verifiable references**

- Khalid L. Saleh, Ph.D, Senior Design Engineer, City Of New Orleans DPW, (504) 658-8208, ksaleh@nola.gov
- Nguyen Phan, P.E., Chief Engineer City of New Orleans DPW. (504) 658-8000, nphan@nola.gov
- Neil Schneider, CCM, P.E. Director of Capital Projects, Jefferson Parish Department of Capital Projects (504) 736-6833, nschneider@jeffparish.net
- Mike Lockwood, Director of Sewerage, Jefferson Parish Department of Sewer (504) 736-6661, mlockwood@jeffparish.net
- Mark Drewes, PE; Director of Public Works, Jefferson parish, Department of Public Works, (504) 736-6783, mdrewes@jeffparish.net
- Angela DeSoto, PE; Director of Engineering; Jefferson Parish, Department of Engineering, (504) 736-6500, [adesoto@jeffparish.net](mailto:adesoto@jeffparish.net)
- Myra Alexis-Valentine, Grants Administer, St. John Parish, (985) 652-9569, m.alexisv@stjohn-



## **TEC Professional Services Questionnaire**

la.gov

- Jean Todd, Contracting Officer, US Army Corps of Engineers, (901) 828 – 1503, [jean.f.todd@usace.army.mil](mailto:jean.f.todd@usace.army.mil)
- Wes Wyche; Director of Public Works; City of Shreveport; (318) 673-6000, [Wes.Wyche@shreveportla.gov](mailto:Wes.Wyche@shreveportla.gov)
- Christopher Racca; Environmental Protection Manager; Waste Management; (225) 637-2385, [cracca@wm.com](mailto:cracca@wm.com)

### **6) Size of firm, considering the number of professional and support personnel required to perform the type of engineering tasks**

As outlined in this Statement of Qualifications Pivotal not only presents the number of professional and support personnel available to perform this type of engineering tasks, but also demonstrates the breadth and diversity of the capabilities of the staff. Beyond this diversity of capabilities, Pivotal Engineering's Environmental, Planning, Design and Inspection staff has combined experience of greater than 200 years of experience in all phases of project delivery, including electrical, civil, mechanical, environmental, planning, management, design, and construction supervision experience. Professional qualifications include city, state, and federal certifications in safety, management, and a list of other certifications. The Pivotal drafting team is well versed in a variety of software including CIVIL 3D, HEC RAS, H2O MAP and Arc GIS. We ask that you note the resumes included herein for further information.

### **7) Past Performance by person or firm on Parish contracts**

Pivotal Engineering has a history of providing lift station design, facility and building design, wastewater, street, water, and drainage design and construction administration services to many municipalities and state agencies in the region including; The City of New Orleans, The City of Shreveport, Sewerage and Water Board, The City of Kenner, St. Charles, St. John and Jefferson Parishes. These services have also been provided to private clients such as Entergy and Waste Management. Pivotal Engineering has in depth understanding of local, state, and federal governmental agencies procedures and regulations. The scope of work on which our staff has worked on includes: water treatment plant improvements, master planning, elevated storage tank designs, sewer treatment plant upgrades, lift stations, build/repair streets, sidewalks, bike paths, drainage systems and utilities. Our engineers have great track records with helping our clients meet compressed deadlines yet delivering the project within budget. Pivotal personnel have heavy construction background capabilities and have several construction inspectors with extensive experience on board.

Our staff has proven excellence in managing projects from cradle to grave while providing value engineering which saved our clients hundreds of thousands of dollars. Our staff was essential in helping the city of New Orleans expediting its recovery post Katrina by handling and completing over 50 critical FEMA funded projects. Our staff has extensive experience in managing multi-million-dollar projects and programs for public infrastructure and CDBG disaster recovery.

## **TEC Professional Services Questionnaire**

The following is a brief list of the team's relevant experience:

- **Advanced Metering Infrastructure; Jefferson Parish, LA**
- **Advanced Metering Infrastructure; Jefferson Parish, LA**
- **Clearview & Airline Intersection Improvements; Jefferson Parish, LA**
- **Wright Road Improvements; City of New Orleans, LA**
- **RR016 BW Cooper Group C; City of New Orleans, LA**
- **RR017 BW Cooper Group D; City of New Orleans, LA**
- **Backflow Prevention; Port of New Orleans, LA**
- **Backflow Prevention for Sewerage & Water Board City of New Orleans, LA**
- **Eastbank WTP, Jefferson Parish, LA**
- **St. Brides Water Treatment Plant, Virginia Department of Corrections, Chesapeake, VA**

### **Quality Assurance / Quality Control Plan**

Our management team is comprised of experienced managers and task leaders with proven leadership who can thoughtfully bring together capable team members with exceptional technical skills, and support them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully within budget and schedule.

Pivotal maintains a comprehensive program to ensure that our projects bring the most value to our clients and are of high quality. Each Pivotal project has a comprehensive QA/QC plan to make sure our procedures and documentation conforms to our corporate policies and our client's requirements. QA/QC is much more than providing reviews and checking computations. Quality is a mindset that is shared by every member of the Pivotal team. It starts by clearly understanding expectations and making a commitment to meet them every day and with every deliverable. Each project review also includes some elements of internal value engineering. Our senior staff focuses not only on accuracy and completeness, but on value, optimization, simplicity, operations, maintenance, power cost, and constructability.

Our principals and staff have gained this experience not only through many years of providing services to this variety of clients on a very diverse portfolio of projects, but also through focused continuing education. Pivotal Engineering's principals and staff have all been given accolades on their technical competence and knowledge of administering the contract plans and specifications per agency policy and procedure.

Pivotal believes that quality products and services result from having sound business practices, retaining talented staff, and focusing on being responsive to our client's needs. Our clients respect us for our philosophy of "doing the right things for the right reasons."

Quality is integrated into Pivotal's day-to-day business activities through our Quality Management System (QMS). The programs, policies, and business processes that comprise the QMS have four key elements:

- **Focus - Management actively promotes quality in our business activities and defines responsibilities for maintaining a quality focus.**

## TEC Professional Services Questionnaire

- Service - Staff members are trained, available, and committed to providing quality services.
- Delivery - Processes and procedures are in place that promotes quality in the delivery of our products and services.
- Improvement - Continual improvement is achieved through performance measurement and identification of areas for improvement.

Pivotal's senior management demonstrates its commitment to quality through establishing responsibilities for quality at all levels of the company, from company principals to members of management to the project team. Responsibilities are documented in Pivotal's QA/QC Program procedures. These procedures define how Pivotal delivers products and services to our clients.

### Experience in creating and working with multi-disciplinary project delivery team:

Pivotal Engineering's management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable team members with exceptional technical skills, and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully, within budget and schedule.

Pivotal's approach to the assigned project includes integrated and comprehensive engineering services that include facility inventories, development of design criteria, assessment of major engineering components, preparation of specifications, and plans and associated construction cost.

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

Signature:  Print Name: Avinash Mehta, PE

Title: Principal-In-Charge Date: 3/22/2022

## Section Two

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### TEC Form for BFM

## TEC Professional Services Questionnaire

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

### Routine Engineering Services for Water Projects

SOQ 22-013 | Resolution No. 138809

**B. Firm Name & Address:**



**BFM**  
CORPORATION, LLC  
Professional Land & Hydrographic Surveying

**BFM Corporation, LLC**

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., Executive Vice President**

504-468-8800 • 504-460-5239 cell • cpoche@bfmcorporation.com

Registered Professional Civil Engineer, Louisiana No. 27667 (since 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.**

**Ralph P. Fontcuberta, Jr., Executive Vice President • LA License No. 4329 (1974)**

504-468-8800 • 504-451-7500 cell • ralph@bfmcorporation.com

Registered Professional Land Surveyor, Louisiana No. 4329 (since 1974)

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

4	Administrative	-	Estimators	-	Specification Writers
-	Architects (Licensed)	-	Geologists	-	Structural Engineers
-	Chemical Engineers	1	Geotechnical Engineers	-	Graduate Engineers
-	Civil Engineers	-	Interior Designers	2*	Project Managers
-	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	Principals
2	Professional Land Surveyors			1	Researcher/Archivist
				3	Drafting/AutoCADD
				5	Survey Crew Chiefs
				6	Instrument Men
				<b>24</b>	<b>TOTAL</b>

\* Project Manager also noted in Professional Land Surveyor, but overall employee count is correct.

**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 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.**

1. **N/A**

2.

**H. Has this JOINT-VENTURE previously worked together? Please check:**

YES \_\_\_\_\_ NO \_\_\_\_\_ **N/A**

**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 Prime Before (Yes or No):
1. <b>N/A</b>		
2.		
3.		

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

24 (all personnel, primary and support, will be available on all assigned projects)



## 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:**

**Ralph P. Fontcuberta, Jr., PLS**  
Executive Vice President

**Project Assignment:**

Registered Professional Land Surveyor

**Name of Firm with which associated:**

**B F M CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

40 years (Founding Principal of BFM in 1982); 55 years total (1967)

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

*Coursework, Building, Delgado College, New Orleans*  
*Coursework, Math, University of New Orleans*

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

1974, Professional Land Surveyor (Louisiana Lic. No. 4329)  
1974, Professional Land Surveyor (Mississippi Lic. No. 1633)

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

Ralph P. Fontcuberta, Jr., PLS has better than half a century of experience in the field of surveying and has been a registered Professional Land Surveyor (PLS) since 1974. He is thoroughly knowledgeable in all aspects of surveying: topographic, hydrographic, boundary, right-of-way surveying, and all facets thereof. He has provided surveying services for residential, plant, and industrial layout projects, ranging from small private lots & buildings to multi-million dollar programs, including the New Orleans FEMA Streets/Recovery Roads Program.

Since the beginning of his career, his work has entailed computations, drafting, and field work for various industrial, commercial, municipal, and private clients. Project work has included topographic surveying needed for a wide variety of engineering, architectural, and related endeavors.

## TEC Professional Services Questionnaire

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

*Ralph P. Fontcuberta, Jr., PLS (continued)*

Mr. Fontcuberta's **surveying experience with Jefferson Parish can be traced back to BFM's inception in 1982**, and before then while working as a surveyor with another firm. He has over half a century of experience with surveying throughout the region and **specifically with Jefferson Parish**. He has served as the PLS for projects throughout every corner of Jefferson Parish. Relevant project history includes, but is certainly not limited to, the following:

- *East Bank Water Treatment Plant Improvements, Jefferson Parish, LA*
- *East Jefferson Water Works - River Road, Jefferson Parish, LA*
- *East Bank Water Treatment Plant Improvements - 3D Laser Scanning Survey, Jefferson Parish, LA*
- *Lower Lafitte Waterline, Jefferson Parish, LA*
- *Lower Lafitte Waterline Stakeout, Jefferson Parish, LA*
- *Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA*
- *River Road Water Line Replacement, Jefferson Parish, LA*
- *Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA*
- *Central Avenue Project, Metairie, Jefferson Parish, LA*
- *Emergency Generator Replacement at the East Bank Treatment Plant, Jefferson Parish, LA*
- *Water Line Location Surveying, Grand Isle, Jefferson Parish, LA*
- *River Road Water Line, Waggaman, Jefferson Parish, LA*
- *Grand Isle Water Tower, Grand Isle, Jefferson Parish, LA*
- *Evans Road Waterline Repair - Mississippi River Levee Cross Section, Jefferson Parish, LA*
- *Iris Avenue Water Line Replacement, Jefferson Parish, LA*
- *West Bank Water Intake Basin Hydrographic Survey, Jefferson Parish, LA*
- *Waterline Location, Lower Lafitte Shoreline Stabilization, Jefferson Parish, LA*
- *Hydrological Survey of the East Bank Water Treatment Plant Intake Basin, Jefferson Parish, LA*
- *Fifi Island/Bayou Rigaud Water Line Location, Grand Isle, Jefferson Parish, LA*
- *DPW Proj. 2008-018-WR, Grand Isle Water Tower Site, Town of Grand Isle, Jefferson Parish, LA*
- *Canal No. 17 Bank Stabilization Phase II, Jefferson Parish, LA*
- *Channel Repair, Phase II, Construction Unit No. 3 (West Bank), Jefferson Parish, LA*
- *Channel Repair, Phase II, Construction Unit No. 2 (East Bank), Jefferson Parish, LA*
- *Grand Isle Water Main Location, Jefferson Parish, LA*
- *Water Main Installation, Live Oak Boulevard, West Bank, Jefferson Parish, LA*
- *Levee Cross Sections, Waggaman, Jefferson Parish, LA*

## TEC Professional Services Questionnaire

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

**Name & Title:**

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

**Project Assignment:**

Engineering Liaison

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

5 years (became partial owner of BFM in 2017); 29 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:**

Louisiana, Civil Engineer, No. 27667, 1998  
Mississippi, Civil Engineer, No. 15405, 2002

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

Mr. Poché is an Executive Vice President with (and partial owner of) BFM Corporation, LLC, and a co-founder of BFM's sister company, Gulf South Engineering and Testing, Inc. He has been a consulting geotechnical engineer for more than 20 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 waste facilities and 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 expert witness testimony. 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.

BFM Corporation projects overseen by Mr. Poché would include:

## TEC Professional Services Questionnaire

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

*Chad M. Poché, P.E. (continued)*

**Levee Cross Sections, Waggaman, Jefferson Parish, LA.** BFM's scope of services included a cross section survey with location & inverts of water manholes & valves for the project. (\$2,845 (fee); 2018)

**East Bank Water Treatment Plant Improvements, Jefferson Parish, LA.** BFM's surveying services located submerged pipes upon excavation as part of Task Order No. 3 of the project. (\$19,703 (fee); 2018)

**Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, LA.** BFM provided topographic and hydrographic surveying services for the project. Scope included establishing three static GPS observation points at major turns on the levee to ensure baseline is constrained to State Plane Coordinates; BFM also established a baseline along the centerline of the existing earthen levee (referenced to NAD 1983 2011). BFM set vertical control Temporary Benchmarks (TBM) which were referenced to horizontal control points (NAVD 1988 Geoid 12B). Plotted a cross section depicting the ground, edge of water, top and toe of earthen levee, and levee centerline at typical widths of 100 feet. Located visible above-ground utilities as well as underground utilities with visible surface evidence (where available, BFM obtained record drawings from relevant agencies to further plot utilities), as well as existing wall, center of pumps, and discharge pipes at the existing pump station. Trees and large shrubbery & etc. were located and described. Existing improvements (such as sheds, piers, and buildings) and trees were included in general location surveying. Deliverables included hardcopy, PDF, and AutoCAD DWG files. (\$150,000 (fee); 2018)

**Lapalco Boulevard Turn Lane (Lapalco Boulevard at Baratavia Boulevard), Jefferson Parish, LA.** BFM provided surveying services for the Lapalco Boulevard Turn Lane project (JPPW 2017-048-RBP), which involved a westbound left turn lane to southbound Lapalco Boulevard. BFM's scope included a Route Topographic Survey of Lapalco Boulevard at Baratavia Boulevard; the full scope plan & profile included all services, utilities, properties, elevations, cross sections, and items necessary to perform any and all engineering and construction work. The project site was subject to road closures during the survey and preliminary construction/preparation phase. (\$46,854 (fee); 2018)

**Destrehan Avenue Bike Path (Patriot Street to Chadwood Drive), Harvey, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area included the Destrehan ramp intersection, Chadwood Drive to Destrehan Avenue, and from the Destrehan ramp to Patriot Street. Surveying services further included the intersection of Destrehan Avenue to all side streets within the project area. (\$86,355 (fee); 2019)

**Lapalco Boulevard Bridge at Harvey Canal, Jefferson Parish, LA.** BFM provided extensive surveying services for a topographic survey and right-of-way (ROW) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases included hydrographic topography of the project area, the right-of-way determination, and subsurface utility engineering (SUE). A Route Topographic Survey was also included as part of the scope. (\$575,738 (fee); 2019)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**John Philip Thayer**  
Field Operations Supervisor

**Project Assignment:**

Field Operations Supervisor

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

14 years (joined BFM in 2008); 15 years total (2007)

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

B.S., 2007, Physical Education, Trevecca Nazarene University

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

*Professional Land Surveyor Registration in process, State of Louisiana*

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

Mr. Thayer is a Field Operations Supervisor with considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.

**Central Avenue Project, Metairie, Jefferson Parish, LA.** BFM provided topographic surveying services for the Central Avenue project, which extended from Airline Highway to Karen Drive. This included location of utilities, notably the municipal water line. (\$14,580 (fee); 2014)

**River Road Water Line, Waggaman, Jefferson Parish, LA.** As requested by the Project Engineer, BFM provided water line location & general surveying services for the project, which extended from the St. Charles Parish line to Rivet Boulevard in Waggaman. (\$43,211 (fee); 2012)

**Grand Isle Water Tower, Grand Isle, Jefferson Parish, LA.** BFM provided as-requested amended surveying services for the project. This was an extension of DPW Proj. 2008-018-WR, executed in 2009, for additional project work. (\$8,753 (fee); 2012)

**Water Line Location Surveying, Grand Isle, Jefferson Parish, LA.** BFM located a 16-inch water line at Camp Club in Grand Isle, Louisiana. (\$1,701 (fee); 2012)

**West Bank Water Intake Basin Hydrographic Survey, Jefferson Parish, LA.** BFM provided hydrographic surveying services for the Intake Basin at the West Bank plant. (2011)



## TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

*John Philip Thayer (continued)*

**Fifi Island/Bayou Rigaurd Water Line Location, Grand Isle, Jefferson Parish, LA.** BFM's surveying services located a 16-inch water line utility in Fifi Island and Bayou Rigaurd in Grand Isle, Louisiana. (\$3,178 (fee); 2010)

**East Jefferson Water Works – River Road, Jefferson Parish, LA.** BFM's surveying services for the project involved the location of existing water lines/pipes for the East Jefferson Water Works located on River Road in Jefferson Parish. (\$2,070 (fee); 2017)

**East Bank Water Treatment Plant Improvements, Jefferson Parish, LA.** BFM executed a boundary survey, utilizing Laser Scan P3, for an As-Built Utilities survey. This included draft surveying (in conjunction with the Prime Firm) as well as provision of final survey as directed. In a later phase, BFM provided topographic and boundary surveying services. (\$154,770 (fee); 2017)

**Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA.** BFM provided bathymetric surveying services for the project. (\$14,804 (fee); 2016)

**Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA.** BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle. (\$133,444 (fee); 2014)

**Emergency Generator Replacement at the East Bank Treatment Plant, Jefferson Parish, LA.** BFM prepared a topographic survey of the area surrounding the proposed site for the emergency generators. (\$5,888 (fee); 2012)

**Evans Road Waterline Repair – Mississippi River Levee Cross Section, Jefferson Parish, LA.** BFM provided cross section surveying services for the Evans Road Mississippi River Levee profiles as requested by the Parish in order to obtain USACE permitting. The cross section view showed the existing levee cross section, the design levee cross section, and the proposed excavation sites. (\$4,485 (fee); 2012)

**Iris Avenue Water Line Replacement, Jefferson Parish, LA.** BFM provided topographic surveying services for the Iris Avenue Water Line Replacement, which included the area from River Road to Jefferson Highway. (\$18,493 (fee); 2011)

**Hydrological Survey of the East Bank Water Treatment Plant Intake Basin, Jefferson Parish, LA.** BFM provided hydrological surveying services for the project. (\$4,975 (fee); 2010)

**Waterline Location, Lower Lafitte Shoreline Stabilization, Jefferson Parish, LA.** BFM provided surveying services associated with the location of a 16 in plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project. (\$27,825 (fee); 2011)

**Grand Isle Water Tower Site, Town of Grand Isle, Jefferson Parish, LA.** BFM provided topographic surveying for the project. (\$6,859 (fee); 2009)



## TEC Professional Services Questionnaire

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

**Name & Title:**

**Gary J. Lambert, Jr., PLS**

Registered Professional Land Surveyor

**Project Assignment:**

Registered Professional Land Surveyor; Project Manager/Drafting Supervisor

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

4 years (joined BFM in 2018); 11 years total

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

B.S., 2018, Geomatics, Nicholls State University

B.S., 2014, Construction Management, Louisiana State University

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

2021, Professional Land Surveyor (Louisiana Lic. No. 5929)

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

Mr. Lambert provides Project Management and Drafting Oversight for the firm. He has also provided Survey Crew Chief Services since joining BFM and offers a well-rounded experience overview for any project. Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).

**Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.** BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)

**North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA.** BFM's project services included both boundary and topographic surveying of the project site. (\$6,870 (fee); 2019)

**Lapalco Boulevard Bridge at Harvey Canal, Jefferson Parish, LA.** BFM provided extensive surveying services for a topographic survey and right-of-way (ROW) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases included hydrographic topography of the project area, the right-of-way determination, and subsurface utility engineering (SUE). A Route Topographic Survey was also included as part of the scope. (\$575,738 (fee); 2019)

## TEC Professional Services Questionnaire

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

*Gary J. Lambert, Jr., PLS (continued)*

**Sewer Lift Station L-13-6, Ehret Road, Marrero, Jefferson Parish, LA.** BFM's surveying scope involved topographic and boundary surveying services for the project in Marrero. BFM established a baseline parallel to Ehret Road, with the beginning, end, and points of intersection referenced by three point ties to topographic features in the area. With the limits of survey established (Ehret Road, Weatherly Place, Crestridge Circle, and Broas Drive), BFM plotted the location of improvements. Visible above-ground utilities & below-ground utilities with visible surface evidence were also plotted. (\$8,790 (fee); 2019)

**Coventry Drainage Pump Stations, Jefferson Parish, LA.** BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge. (\$89,780 (fee); 2020)

**Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA.** The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area. (\$32,280 (fee); 2020)

**Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

**Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.** BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). The scope of services included a full Route Topographic Survey (includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work) from gutter line to gutter line along Metairie Road from the westerly apparent right-of-way (R/W) of Causeway Boulevard to easterly apparent ROW of Focis Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope. (\$18,350 (fee); 2020)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Christopher Lemley**  
Quality Control Supervisor

**Project Assignment:**

Quality Control Supervisor

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

8 years (joined BFM in 2014); 16 years total (2006)

**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. Lemley serves as BFM's Quality Control Supervisor, overseeing all work and activity by the firm's personnel to be sure all is kept up to our exacting standards. His surveying experience includes over 8 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station.

**Lower Lafitte Waterline Stakeout, Jefferson Parish, LA.** BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes). (\$10,380 (fee); 2016)

**River Road Water Line Replacement, Jefferson Parish, LA.** As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive. This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program. (\$84,700 (fee); 2015)

**East Bank Water Treatment Plant Improvements, Jefferson Parish, LA.** BFM executed a boundary survey, utilizing Laser Scan P3, for an As-Built Utilities survey. This included draft surveying (in conjunction with the Prime Firm) as well as provision of final survey as directed. In a later phase, BFM provided topographic and boundary surveying services. (\$154,770 (fee); 2017)

**Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA.** BFM provided bathymetric surveying services for the project. (\$14,804 (fee); 2016)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Thomas O. Wright**  
Survey Crew Chief

**Project Assignment:**

Survey Crew Chief

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

14 years (joined BFM in 2008); 45 years total (1977)

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

*High School Diploma*

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

*American Traffic Safety Service Assn. – Traffic Flagger/Control Technician/Control Supervisor  
Basic OSHA Training - Completed  
Transportation Work Identification Card (TWIC)*

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

Mr. Wright has over 40 years of experience in surveying services, including a multitude of project types (water, wastewater, stormwater, drainage, roadway, etc.) throughout the region.

**Lower Lafitte Waterline, Jefferson Parish, LA.** BFM provided stakeout services for the Lower Lafitte Waterline project. (\$10,380 (fee); 2017)

**Grand Isle Water Tower, Grand Isle, Jefferson Parish, LA.** BFM provided as-requested amended surveying services for the project. This was an extension of DPW Proj. 2008-018-WR, executed in 2009, for additional project work. (\$8,753 (fee); 2012)

**Fifi Island/Bayou Rigaurd Water Line Location, Town of Grand Isle, Jefferson Parish, LA.** BFM's surveying services located a 16-inch water line utility in Fifi Island and Bayou Rigaurd in Grand Isle, Louisiana. (\$3,178 (fee); 2010)

**Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA.** BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle. (\$133,444 (fee); 2014)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Curtis "Jay" Barrios**  
Survey Crew Chief

**Project Assignment:**

Survey Crew Chief

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

32 years (joined BFM in 1990); 32 years total (1990)

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

*High School Diploma*

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

*American Traffic Safety Service Assn. – Traffic Flagger  
Transportation Work Identification Card (TWIC)*

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

Mr. Barrios' surveying experience includes boundary, hydrographic, and topographic. He has worked on location and performed topographic surveys for a number of major projects.

**Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA.** BFM provided bathymetric surveying services for the project. (\$14,804 (fee); 2016)

**Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA.** BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle. (\$133,444 (fee); 2014)

**Iris Avenue Water Line Replacement, Jefferson Parish, LA.** BFM provided topographic surveying services for the Iris Avenue Water Line Replacement, which included the area from River Road to Jefferson Highway. (\$18,493 (fee); 2011)

**Grand Isle Water Main Location, Jefferson Parish, LA.** BFM provided all surveying services associated with the location of the Grand Isle water main. (\$20,000 (fee); 2002)

**Water Main Installation, Live Oak Boulevard, West Bank, Jefferson Parish, LA.** BFM provided topographic surveying services for the project. (\$20,000 (fee); 1998)



## TEC Professional Services Questionnaire

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

**Name & Title:**

**Eric Gladney**  
Survey Crew Chief

**Project Assignment:**

Survey Crew Chief

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

8 years (joined BFM in 2014); 21 years total (2001)

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

*High School Diploma*

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

*American Traffic Safety Service Assn. – Traffic Flagger  
Norfolk Southern Roadway Worker Protection Contractor Safety Cert.  
Transportation Work Identification Card (TWIC)*

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

**Lower Lafitte Waterline Stakeout, Jefferson Parish, LA.** BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes). (\$10,380 (fee); 2016)

**East Jefferson Water Works – River Road, Jefferson Parish, LA.** BFM's surveying services for the project involved the location of existing water lines/pipes for the East Jefferson Water Works located on River Road in Jefferson Parish. (\$2,070 (fee); 2017)

**River Road Water Line Replacement, Jefferson Parish, LA.** As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive. This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program. (\$84,700 (fee); 2015)

**East Bank Water Treatment Plant Improvements, Jefferson Parish, LA.** BFM's surveying services located submerged pipes upon excavation as part of Task Order No. 3 of the project. (\$19,703 (fee); 2018)

**Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA.** BFM provided bathymetric surveying services for the project. (\$14,804 (fee); 2016)



## TEC Professional Services Questionnaire

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

**Name & Title:**

**Jeff Patin**

Survey Crew Chief

**Project Assignment:**

Survey Crew Chief

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

3 years (joined BFM in 2019); 23 years total (1999)

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

*High School Diploma*

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

*Transportation Work Identification Card (TWIC)*

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

Mr. Patin has worked as a Survey Crew Chief and Instrumentman for 20 years for a number of southeastern Louisiana surveying firms on projects throughout the region. His work history includes supervision of field crew personnel, operation of various survey equipment (Topcon GPT, Leica GPS, Total Station, etc.), calculations, information collection, and any & all work required to execute the survey and obtain the information needed. Mr. Patin has worked on projects for various public & private clients, and has performed field work under the direction of the Corps of Engineers.

**Town Center Water Well, City of Slidell, LA.** BFM's surveying scope included topographic and boundary surveying services for the project. (\$16,533 (fee); 2019)

**Lapalco Boulevard Bridge at Harvey Canal, Jefferson Parish, LA.** BFM provided extensive surveying services for a topographic survey and right-of-way (ROW) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases included hydrographic topography of the project area, the right-of-way determination, and subsurface utility engineering (SUE). A Route Topographic Survey was also included as part of the scope. (\$575,738 (fee); 2019)

**5th & 9th Sewer Lift Station Upgrades, Harvey, Jefferson Parish, LA.** BFM's scope involved a topographic survey of the project site, located at the intersection of 5th Avenue & 9th Street. Cross sections were taken on a 25 ft grid within limits. (\$6,790 (fee); 2019)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Anthony Watson**  
CADD Technician

**Project Assignment:**

CADD Technician

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

11 years (joined BFM in 2011); 31 years total (1992)

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

*Coursework - CAD, Avatech Solutions, Los Colinas, TX*

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

NA

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

Mr. Watson has experience as a draftsman/CADD technician, having started his career as an intern with the Surveying Department of the City of Plano, TX. His experience through the years includes manual and computer-aided drafting for a wide range of projects, ranging from small lot surveys to subdivisions to municipal treatment and private industrial plants. He has experience in all facets of surveying (boundary, topographic, ALTA/ACSM, plan & profile, etc.) in both drafting and field environments.


**Lower Lafitte Waterline Stakeout, Jefferson Parish, LA.** BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes). (\$10,380 (fee); 2016)

**Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA.** BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle. (\$133,444 (fee); 2014)

**East Bank Water Treatment Plant Improvements, Jefferson Parish, LA.** BFM provided surveying services for Tasks 1 (topographic) and 2 (boundary) of the project, part of a major improvements project for the East Bank Water Treatment Plant in Jefferson Parish. (\$24,465 (fee); 2016)

**Evans Road Waterline Repair – Mississippi River Levee Cross Section, Jefferson Parish, LA.** BFM provided cross section surveying services for the Evans Road Levee profiles as requested by the Parish in order to obtain USACE permitting. The cross section view showed the existing levee cross section, the design levee cross section, and the proposed excavation sites. (\$4,485 (fee); 2012)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Shaun Clements</b> CADD Technician
<b>Project Assignment:</b>
CADD Technician
<b>Name of Firm with which associated:</b>
 Professional Land & Hydrographic Surveying
<b>Years experience with this Firm:</b>
4 years (joined BFM in 2018); 7 years total (2015)
<b>Education: Degree(s)/Year/Specialization:</b>
Associates of Applied Sciences, 2015, Computer Drafting and Design (ITT)
<b>Active registration: Year first registered/discipline:</b>
NA
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p><b>North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA.</b> BFM's project services included both boundary and topographic surveying of the project site. (\$6,870 (fee); 2019)</p> <p><b>Sewer Lift Station L-13-6, Ehret Road, Marrero, Jefferson Parish, LA.</b> BFM's surveying scope involved topographic and boundary surveying services. (\$8,790 (fee); 2019)</p> <p><b>Holly Drive Drainage Project, Lewisburg Estates Subdivision, Mandeville, St. Tammany Parish, LA.</b> BFM provided boundary with topographic surveying of the project site (multiple lots) in the Lewisburg Estates Subdivision for this drainage project. (\$13,392 (fee); 2019)</p> <p><b>Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.</b> BFM executed a Route Topographic Survey for the project; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)</p> <p><b>West Bank Bus Stop Improvements, Jefferson Parish, LA.</b> BFM's surveying services involved topographic surveying (25 ft grid) for multiple bus stop locations (AV26, AV27, AV3 (6 sites), AV40, AV42, AV43, AV44, AV45, AV47, AV65, AV74, AV76, HL67, MR44, MR52). (\$26,622 (fee); 2019)</p>

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Kevin A. Roberts**  
CADD Technician

**Project Assignment:**

CADD Technician

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

4 years (joined BFM in 2018); 37 years total (1985)

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

A.D., 1999, Drafting & Design, Louisiana Technical College  
Coursework, 1994-1997, Nunez Community College  
Coursework, 1984-1988, Delgado Community College  
Coursework, 1982-1983, University of New Orleans

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

NA

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

Mr. Roberts has experience with civil engineering, offshore engineering, water purification systems, and general architectural and construction design & terminology. He obtained his A.D. in Drafting in 1999, and has taken additional coursework throughout his career.

**Town Center Water Well, City of Slidell, LA.** BFM's surveying scope included topographic and boundary surveying services for the project. (\$16,533 (fee); 2019)

**Lapalco Boulevard Bridge at Harvey Canal, Jefferson Parish, LA.** BFM provided extensive surveying services for a topographic survey and right-of-way (ROW) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases included hydrographic topography of the project area, the right-of-way determination, and subsurface utility engineering (SUE). A Route Topographic Survey was also included as part of the scope. (\$575,738 (fee); 2019)

**5th & 9th Sewer Lift Station Upgrades, Harvey, Jefferson Parish, LA.** BFM's scope involved a topographic survey of the project site, located at the intersection of 5th Avenue & 9th Street. Cross sections were taken on a 25 ft grid within limits. (\$6,790 (fee); 2019)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Dawn Hoffman**  
Researcher/Archivist

**Project Assignment:**

Researcher/Archivist

**Name of Firm with which associated:**



**Years experience with this Firm:**

13 years (joined BFM in 2009); 25 years total (1997)

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

A.D., 1999, Computer-Aided Drafting, Southeast College of Technology  
Certificate, 2003, Introduction to ArcGIS, Louisiana State University

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

NA

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

**East Bank Water Treatment Plant Improvements, Jefferson Parish, LA.** BFM executed a boundary survey, utilizing Laser Scan P3, for an As-Built Utilities survey. This included draft surveying (in conjunction with the Prime Firm) as well as provision of final survey as directed. In a later phase, BFM provided topographic and boundary surveying services. (\$154,770 (fee); 2017)

**East Jefferson Water Works – River Road, Jefferson Parish, LA.** BFM's surveying services for the project involved the location of existing water lines/pipes for the East Jefferson Water Works located on River Road in Jefferson Parish. (\$2,070 (fee); 2017)

**Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA.** BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle. (\$133,444 (fee); 2014)

**Waterline Location, Lower Lafitte Shoreline Stabilization, Jefferson Parish, LA.** BFM provided surveying services associated with the location of a 16 in plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project. (\$27,825 (fee); 2011)

**Hydrological Survey of the East Bank Water Treatment Plant Intake Basin, Jefferson Parish, LA.** BFM provided hydrological surveying services for the project. (\$4,975 (fee); 2010)

## 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:	
<b>East Bank Water Treatment Plant Improvements Project (including Laser Scanning),</b> Jefferson Parish, Louisiana  <b>Stantec</b> 1340 Poydras Street, Suite 1420 New Orleans LA 70112  <b>Jeffrey Sapia, P.E., 225-926-3991</b> jeffrey.sapia@stantec.com		BFM provided surveying services for Tasks 1 (topographic) and 2 (boundary) of the project, part of a major improvements project for the East Bank Water Treatment Plant located at 3600 Jefferson Highway in Jefferson Parish. This included executing a 3D Laser Scan for an As-Built Utilities survey. Draft surveying (in conjunction with the Prime Firm) as well as provision of final survey were prepared as directed.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2017 June		N/A	\$166,230 (fee)

### PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>River Road Water Line Replacement,</b> Jefferson Parish, Louisiana  <b>Digital Engineering</b> 527 W Esplanade Ave Ste 200 Kenner LA 70065  <b>Frank T. Liang, P.E., 504-468-7515</b> fliang@deii.net		As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive. This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2015 June		N/A	\$84,700 (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>East Bank Water Treatment Plant Project – Water and Utility Line Survey,</b> Jefferson Parish, Louisiana  <b>Stantec Consulting Services, Inc.</b> 1340 Poydras Street, Suite 1420 New Orleans LA 70112  <b>Jeffrey Sapia, P.E.,</b> 225-926-3991 jeffrey.sapia@stantec.com	BFM's surveying services, as part of Task Order No. 3 of the project, involved BFM's location of exposed water or utility lines after said lines were excavated by another firm. Horizontal location and vertical elevation, at top of pipe, was recorded along with the pipe size and type. Field data was processed to add to the existing topographic survey, previously executed by BFM.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018 October	N/A	\$19,703 (fee)

<b>PROJECT NO. 4</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>River Road Water Line,</b> Waggaman, Jefferson Parish, Louisiana  <b>Digital Engineering</b> 527 W Esplanade Ave Ste 200 Kenner LA 70065  <b>Frank T. Liang, P.E.,</b> 504-468-7515 fliang@deii.net	As requested by the Project Engineer, BFM provided water line location & general surveying services for the project, which extended from the St. Charles Parish line to Rivet Boulevard in Waggaman.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2012 November	N/A	\$43,211 (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>Belle Chasse Water Plant Intake,</b> Belle Chasse, Jefferson Parish, Louisiana  <b>Kyle Associates, LLC</b> 638 Village Lane North Mandeville LA 70471  <b>Phil O. Nelson, P.E., 985-727-9377</b> pnelson@kyleassociates.net	BFM provided bathymetric, boundary and topographic surveying services for the project. Improvements on the site were located, as well as visible above-ground utilities & underground utilities with visible surface evidence. Existing storm sewer and sanitary sewers were located using top of casing; invert elevations were provided on the survey. Bathymetric surveys were tied to the U.S. Army Corps of Engineers baseline. Deliverables included indelible prints and AutoCAD DWG format drawing files	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2016 July	N/A	\$14,804 (fee)

<b>PROJECT NO. 6</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Central Avenue Project (including location of Municipal Water Line),</b> Metairie, Jefferson Parish, Louisiana  <b>Principal Engineering</b> 1011 N Causeway Blvd Suite 19 Mandeville LA 70471  <b>Tyler Gaspard, E.I., 985-624-5001</b> tyler@principal-engineering.com	BFM provided topographic surveying services for the Central Avenue project, which extended from Airline Highway to Karen Drive. This included location of utilities, notably the municipal water line.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2014 February	N/A	\$14,580 (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>East Jefferson Water Works – River Road,</b> Jefferson Parish, Louisiana  <b>Stantec</b> 1340 Poydras Street, Suite 1420 New Orleans LA 70112  <b>John Catalanotto, P.E.,</b> 504-234-1556 john.a.catalanotto@stantec.com	BFM's surveying services for the project involved the location of existing water lines/pipes for the East Jefferson Water Works located on River Road in Jefferson Parish.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2017 June	N/A	\$2,070 (fee)

<b>PROJECT NO. 8</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Lower Lafitte Waterline Project,</b> Jefferson Parish, Louisiana  <b>CB&amp;I</b> 2424 Edenborn Avenue Suite 450 Metairie LA 70001  <b>Gene S. Gillen, P.E.,</b> 504-832-4881 gene.gillen@cbi.com	BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes).	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2017 January	N/A	\$10,380 (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>Locate 16-inch Water Line between Valve Stations 18 &amp; 24,</b> Grand Isle, Jefferson Parish, Louisiana  <b>Jefferson Parish Water Department</b> 1221 Elmwood Park Blvd Ste 909 Jefferson LA 70123  <b>R. Douglas Vincent, P.E.,</b> 504-838-4363 JPWater@jeffparish.net	BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2014 August	N/A	\$133,444 (fee)

<b>PROJECT NO. 10</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Waterline Location, Lower Lafitte Shoreline Stabilization,</b> Jefferson Parish, Louisiana  <b>Shaw Coastal</b> Post Office Box 98519 Baton Rouge LA 70884  <b>Gene Gillen, P.E.,</b> 225-932-2500	BFM provided surveying services associated with the location of a 16 in plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2011 August	N/A	\$27,825 (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.	BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.	
2.		
3.		
4.		

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

# BFM CORPORATION, LLC

Professional Land & Hydrographic Surveying

### CRITERIA 1 • PROFESSIONAL TRAINING AND RELEVANT PROJECT EXPERIENCE

Established in 1982, **BFM Corporation, LLC, Professional Land & Hydrographic Surveying**, has provided services to public & private concerns throughout Louisiana and the Gulf South. The firm provides surveying services covering all facets of engineering, construction, and forensics; topographic, hydrographic, and high definition laser scanning.

**BFM is a majority Woman-Owned Business Enterprise (WBE) as well as a Hudson Initiative certified Small & Emerging Business and Small Entrepreneurship in Louisiana.**

Our capabilities include the following and more:

- **Topographic Surveying**
- **Drone Surveying / Photogrammic and LiDAR**
- **Bathymetric / Hydrographic Surveys**
- **Property, Boundary, and Right-of-Way Surveys**

## TEC Professional Services Questionnaire

N. continued.

- **Maps, Cross-Sections, and Data Sets**
- **3D Laser Scanning**
- **Benchmarks**
- **Construction-Related Surveying**
- **Builder's Package Surveys**
- **American Land Title Association (ALTA) Surveys**

BFM's project work routinely involves **extensive records and related research** as an element of successful completion, as well as coordination with the client, agency or department. BFM has the personnel to make sure this is done correctly and expeditiously.

Our **Survey Field Crews** are equipped with Leica Viva and Leica Captivate Data Collectors, as well as Leica GPS Smart Antennas. Each GPS unit is linked to the Leica SmartNet Network, giving each crew the ability for Real Time Kinematic Positioning (RTK), derived from the Global Navigation Satellite System (GNSS). Furthermore, each crew is outfitted with Leica TS series robotic total stations, simplifying and expediting projects. BFM can also use in-house drones and 3D scanners to further analyze sites and projects. BFM's crews are trained to use this equipment to its full potential to maximize accuracy and efficiency in the field.

BFM offers **Drone Surveying Services**, featuring a DJI Matrice 600 Pro drone outfitted with a Sony A7R3 42-megapixel camera, Pixhawk Triggering System, VMAP PPK system, and an A3 Pro Flight Controller. It can capture 50 acres of land in that time (with a flight ceiling of 165 feet, pixel quality is 0.71 CM). This allows BFM to quickly & accurately capture data and facilitates quicker field work to produce highly accurate and precise surveying information. Deliverables feature Clean Point Cloud, 3D Mesh, Orthomosaic, and AutoCAD DWG Topographic.

BFM's **3D modeling capabilities** allow us to process & model for any design purpose. High-definition scanner data is processed using software from Leica and Autodesk. BFM is working on non-traditional survey deliverables, including virtual tours, live walkthroughs, detailed pipe rack modeling, and modeling for use with Autodesk Revit Architecture.

When needed, BFM Corporation provides **bathymetric surveying** to handle any **hydrographic surveying** tasks. For large rivers and bodies of water, BFM is equipped with Teledyne Odom Hydro Solutions' Hydro Trac Single Beam Echo Sounder. For smaller bodies of water, BFM uses an SL20 Remote Controlled Boat equipped with CEE Scope Dual Channel Echo Sounder. The firm uses Hypack Software to process collected data. Further, BFM can execute multi-beam scans, side scans and magnetometer surveys upon request.

**Please refer to the projects presented in Item L of this form as well as our personnel bios for an overview of relevant project work executed by BFM Corporation.**



## TEC Professional Services Questionnaire

N. continued.

### CRITERIA 2 • CAPACITY FOR TIMELY COMPLETION OF NEWLY-ASSIGNED WORK

BFM Corporation has the manpower and equipment to execute any surveying task within the reasonable time set forth by the contract or project engineer. It is our continual goal to keep this reputation solid. We establish base costs and fees for our services, and work with our clients to meet all project budgets. Our workload and scheduling, and proximity to the project site, will allow for quick assignment of personnel to any directed project.

BFM Corporation's **Ralph P. Fontcuberta, Jr., PLS**, is a **Louisiana-Registered Professional Land Surveyor (since 1974)** and meets or exceeds any minimum requirements for any surveying project. He has been **providing surveying services in Louisiana for over 50 years** and brings an almost incalculable wealth of experience in the region to any project, especially in Southeast Louisiana.

BFM's **Chad M. Poché, P.E.** brings **more than 25 years of experience** to assist in completing projects on time and within budget. He has been a consulting geotechnical engineer for more than 20 years in South Louisiana and has been the geotechnical engineer of record for thousands of projects throughout his career.

Our personnel included **multiple survey crews** and a **fully-staffed drafting department** to handle any project needs; they are thoroughly trained and extensively familiar with the region and needs of various types of surveying projects.

### CRITERIA 3 • LOCATION OF PRINCIPAL OFFICE

BFM has called **Jefferson Parish home office location since the firm's inception in 1982**; our principal office is located in Jefferson Parish at **15 Veterans Memorial Boulevard** in Kenner.

### CRITERIA 4 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

BFM Corporation is **not involved in litigation with Jefferson Parish** nor with any of our clients, as is noted in *Item M* of this form.

### CRITERIA 5 • PRIOR SUCCESSFUL COMPLETION OF PROJECTS

For nearly 40 years, BFM Corporation has completed thousands of projects throughout Jefferson Parish and Southeast Louisiana, both to municipal and various private clients, similar to the project at hand, not to mention other drainage projects in a wide range of sizes, from small lot to Parish-wide endeavors. **Multiple examples of this work are included throughout this form in both the Personnel Résumés section (Item K) and Representative Project Work (Item L).** Further, BFM has worked with virtually every municipality in the region. We enjoy a high repeat-business rate with all our clients. We offer the following specific references for contact:

- **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)

## TEC Professional Services Questionnaire

**N. continued.**

- **Angela DeSoto, P.E.**, Director of Engineering, Jefferson Parish (504-736-6511 | ADeSoto@jeffparish.net)
- **Sid Trouard, P.E.**, Program Manager, Jefferson Parish Sewerage Capital Improvement Program (504-736-6386 | STrouard@jeffparish.net)
- **Tom Schreiner**, Deputy CAO, Public Works & Capital Projects, City of Kenner (504-468-7515 | tschreiner@kenner.la.us)
- **Greg Cromer**, Mayor, City of Slidell (985-646-4333 | gcromer@cityofslidell.org)

Our professional work history is exemplary. We strive to provide on-time and technically thorough project deliverables at the budget set by our clients.

### CRITERIA 6 • SIZE OF FIRM

As noted, BFM has the manpower and equipment to execute any surveying task within the reasonable time set forth by the contract or project engineer. BFM has no issue with meeting the project deadlines set forth by our clients, both municipal and private. It is our continual goal to keep this reputation solid. Further, we establish base costs and fees for our services, and work with our clients to meet all project budgets.

As noted in **item E of this form**, BFM currently has a **full time staff of two dozen people**, including **two Registered Professional Land Surveyors, Survey Field Crew Personnel, and AutoCAD drafting personnel**, as well as **complete administrative and support staff**.

### CRITERIA 7 • PAST PERFORMANCE ON PARISH CONTRACTS

BFM has provided surveying services in **Jefferson Parish since 1982**, both **directly to Parish agencies and as a consultant to firms serving the Parish**. The firm has executed many hundreds of projects in the Parish, including both direct Parish projects and agency projects (CPRA, Louisiana DOTD, etc.), not to mention the scores of surveying projects for private individuals and industry.

As noted, Mr. Fontcuberta has **over half a century of professional land surveying experience**, including nearly 40 years with BFM. He has provided professional surveying services for **thousands of projects for and throughout Jefferson Parish**. Additional information beyond the scope of this RFQ response 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: \_\_\_\_\_

**Executive Vice President**

Date: \_\_\_\_\_

**March 14, 2022**

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
BFM Corporation, LLC	15 Veterans Memorial Boulevard Kenner, Louisiana 70062

**License/Certificate Information w/ Supervision**

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000008	Active	09/11/1984	09/30/2023	Mr. Ralph P. Fontcuberta Jr. # PLS.0004329 - Active



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

**Mr. Ralph P. Fontcuberta Jr.**

License/Certificate Type - Number	Expiration Date
PLS.0004329	09/30/2022

Status: **Active**



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

**Mr. Chad Mitchell Poche**

License/Certificate Type - Number	Expiration Date
PE.0027667	09/30/2022

Status: **Active**



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

**Mr. Gary James Lambert Jr.**

License/Certificate Type - Number	Expiration Date
PLS.0005259	03/31/2023

Status: **Active**



Division of Small and Emerging Business Development  
SEBD CERTIFICATION

## BFM CORPORATION, LLC

is hereby certified as a Small and Emerging Business Enterprise.

This certification is valid beginning 7/19/2019 and supersedes any registration or listing previously issued. At any time there is a change in ownership or control of the firm, notification must be made immediately to the Division of Small and Emerging Business Development.

Issued at Baton Rouge, Louisiana 7/19/2019

This certification expires on: 7/19/2029

Certification No. 9551

John W. Matthews, Jr.,  
Executive Director, Entrepreneurial Services



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

## BFM CORPORATION, LLC

is Certified-Active as a Small Entrepreneurship with  
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 9/28/2021 to 9/28/2022 .

Certification No. 9551

Stephanie Hartman,  
Director, Small Business Services

## **Section Three**

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### **TEC Form for Gulf South**

## TEC Professional Services Questionnaire

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

## Routine Engineering Services for Water Projects

**SOQ 22-013 | Resolution No. 138809**

### B. Firm Name & Address:



**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**

telephone 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**

telephone 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:

6	Administrative	-	Estimators	-	Specification Writers
-	Architects (Licensed)	-	Geologists	-	Structural Engineers
-	Chemical Engineers	2	Geotechnical Engineers	1	Graduate Engineers
-	Civil Engineers	-	Interior Designers	-	Project Managers
10	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

\*employee count also include two CMT Supervisors, 1 Senior Engineering Technician, 1 Field Engineer, 3 Laboratory Technicians, 1 Soil Boring Driller, and one Soil Boring Driller Apprentice

**32\* 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

**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.**

1. N/A

2.

**H. Has this JOINT-VENTURE previously worked together? Please check:**

YES \_\_\_\_\_ NO \_\_\_\_\_ N/A

**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 Prime Before (Yes or No):
1. N/A		
2.		
3.		

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

**32 (all personnel will be available to the project; individuals to be assigned)**

## 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:**

11 years with this firm (2011); 29 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

**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 more than 20 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 waste facilities and 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 expert witness testimony. 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)*

**Central Avenue Water Main Upgrade, Phase I (Central Ave. Between Airline Hwy. & Karen Ave.), Jefferson Parish, LA.** Geotechnical investigation for the reconstruction of Central Avenue and the construction of a 12-in. dia. water main along Central Avenue. Scope included drilling four soil borings in the roadway to depths of 10 & 25 ft, lab testing (strength and classification), and geotechnical engineering analyses consisting of allowable soil bearing values, bedding & backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2014)

**Raw Water Intake (RWI) Structure Rehabilitation, Plaquemine, Iberville Parish, LA.** Geotechnical engineering services for the construction of a replacement water pipeline and intake structure within the Intercoastal Water Way (IWW) near Highway 3066 (Bayou Road) in Iberville Parish, LA. Gulf South's scope includes drilling three undisturbed soil borings (depths of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$17,300 (fee); 2020)

**Water Well (Town Center Parkway & I-10 Crossings), City of Slidell, LA.** Geotechnical investigation for construction of new water system improvements near Town Center Parkway. Scope includes drilling undisturbed soil borings, lab testing, and engineering analyses including net soil bearing values, below grade and pipeline foundation recommendations, pile load capacities for compression, tension, lateral cases, estimates of settlement, passive lateral earth pressures, modulus of soil reaction, soil resistivity values, bedding and backfill recommendations, rigid and/or flexible pavement design recommendations, special local soil conditions, and general construction procedures and recommendations. (\$9,900 (fee); 2018)


**Entergy Water Sampling (Old Gentilly Road Site), New Orleans, LA.** Gulf South sampled water from existing pipes and water source to building to determine if any contaminants were found. Water quality was tested for copper, lead, chlorine and total organic carbon. In addition to water sampling, mold inspection was performed. (\$1,000 (fee); 2018)

**St. Peter's Ditch – Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA.** Project consisted of the construction of a new pump station and below grade culverts and piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Scope 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. (\$110,000 (fee); 2016)

**Bayou Sauvage Water Control Pipe Replacement, U.S. Wildlife & Fisheries, New Orleans, LA.** Geotechnical investigation for drainage pipe replacement at 2 sites for the U. S. Fish and Wildlife in New Orleans, LA. New drainage pipes will be 6 feet in diameter. Drill 1 boring to 20 feet in depth at each site and perform laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$3,500 (fee); 2012)

**Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA.** Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$35,000 (fee); 2020)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Blake E. Vutera, P.E.</b> Engineering Manager
<b>Project Assignment:</b>
Geotechnical Engineer
<b>Name of Firm with which associated:</b>
<div style="display: flex; align-items: center; justify-content: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>  <small>Geotechnical &amp; Materials Consultants</small> </div> </div>
<b>Years experience with this Firm:</b>
10 years with this firm (2012); 16 years total (2006)
<b>Education: Degree(s)/Year/Specialization:</b>
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
<b>Active registration: Year first registered/discipline:</b>
2013, Civil Engineer, Louisiana, No. 38607 2018, Professional Engineer, Texas No. 129410
<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>Entergy Water Sampling (Old Gentilly Road Site), New Orleans, LA.</b> Gulf South sampled water from existing pipes and water source to building to determine if any contaminants were found. Water quality was tested for copper, lead, chlorine and total organic carbon. In addition to water sampling, mold inspection was performed. (\$1,000 (fee); 2018)</p>

## TEC Professional Services Questionnaire

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

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

**Raw Water Intake (RWI) Structure Rehabilitation, Plaquemine, Iberville Parish, LA.** Geotechnical engineering services for the construction of a replacement water pipeline and intake structure within the Intercoastal Water Way (IWW) near Highway 3066 (Bayou Road) in Iberville Parish, LA. Gulf South's scope includes drilling three undisturbed soil borings (depths of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$17,300 (fee); 2020)

**Bayou Sauvage Water Control Pipe Replacement, U.S. Wildlife & Fisheries, New Orleans, LA.** Geotechnical investigation for drainage pipe replacement at 2 sites for the U. S. Fish and Wildlife in New Orleans, LA. New drainage pipes will be 6 feet in diameter. Drill 1 boring to 20 feet in depth at each site and perform laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$3,500 (fee); 2012)


**Water Well (Town Center Parkway & I-10 Crossings), City of Slidell, LA.** Geotechnical investigation for construction of new water system improvements near Town Center Parkway in Slidell, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 50 ft.; one at 15 ft.), laboratory testing, and engineering analyses including net soil bearing values, below grade and pipeline foundation recommendations, pile load capacities for compression, tension, lateral cases, estimates of settlement, passive lateral earth pressures, modulus of soil reaction, soil resistivity values, bedding and backfill recommendations, rigid and/or flexible pavement design recommendations, special local soil conditions, and general construction procedures and recommendations. (\$9,900 (fee); 2018)

**Soniat Canal Stabilization, Harahan, Jefferson Parish, LA.** Geotechnical engineering services for the construction of the stabilization of the east bank of Soniat Canal (approx. 1,700 lf). Scope included drilling three undisturbed soil borings to depths of 50 ft. bgs, laboratory testing, engineering analyses (slope stability analysis) and general construction procedures and recommendations. (\$10,000 (fee); 2020)

**Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, LA.** Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station at the end of Chighizola Lane in Grand Isle. Gulf South's scope includes drilling one undisturbed soil borings to a depth of 80 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall. (\$7,500 (fee); 2020)

**Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA.** Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$35,000 (fee); 2020)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<b>Joseph H. “Trey” Binder, III</b> Laboratory Manager	
<b>Project Assignment:</b>	
Laboratory Manager; Laboratory Technician	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>  <small>Geotechnical &amp; Materials Consultants</small> </div> </div>	
<b>Years experience with this Firm:</b>	
11 years with this firm (2011); 16 years total (2006)	
<b>Education: Degree(s)/Year/Specialization:</b>	
A.D., 2011, General Studies, Nunez Community College	
<b>Active registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>Mr. Binder has direct experience with field and laboratory testing services, and is NICET certified in multiple disciplines, including Construction Materials Testing Soils, Geotechnical Engineering Technologies Exploration, and Geotechnical Engineering Technologies Laboratory (Level I). Mr. Binder has HAZMAT Awareness and Operations Training.</p> <p>Mr. Binder’s 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.</p> <p><b>Water Well (Town Center Parkway &amp; I-10 Crossings), City of Slidell, LA.</b> Geotechnical investigation for construction of new water system improvements near Town Center Parkway in Slidell, LA. Gulf South’s scope includes drilling undisturbed soil borings (three at 50 ft.; one at 15 ft.), laboratory testing, and engineering analyses including net soil bearing values, below grade and pipeline foundation recommendations, pile load capacities for compression, tension, lateral cases, estimates of settlement, passive lateral earth pressures, modulus of soil reaction, soil resistivity values, bedding and backfill recommendations, rigid and/or flexible pavement design recommendations, special local soil conditions, and general construction procedures and recommendations. (\$9,900 (fee); 2018)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 10px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>HAZMAT Awareness</li> <li>HAZMAT Operations Training</li> <li>ACI Aggregate Base Testing Technician</li> </ul> </div> </div>	



## TEC Professional Services Questionnaire

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

*Joseph H. Binder, III (continued)*

**Raw Water Intake (RWI) Structure Rehabilitation, Plaquemine, Iberville Parish, LA.** Geotechnical engineering services for the construction of a replacement water pipeline and intake structure within the Intercoastal Water Way (IWW) near Highway 3066 (Bayou Road) in Iberville Parish, LA. Gulf South's scope includes drilling three undisturbed soil borings (depths of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$17,300 (fee); 2020)

**NASA Michoud Assembly Facility – Soil Borings and CPT Probes, Michoud, Orleans Parish, LA.** Gulf South executed a Soil Boring & Cone Penetration Test (CPT) Sounding investigation for environmental wells at NASA Michoud Assembly Facility (MAF) in Orleans Parish, LA. Scope includes drilling undisturbed soil borings (three at 24 ft.) and CPT Probes (five), lab testing, and results summary include soil boring logs, CPT logs, and lab test results. (\$19,000 (fee); 2019)

**Entergy Water Sampling (Old Gentilly Road Site), New Orleans, LA.** Gulf South sampled water from existing pipes and water source to building to determine if any contaminants were found. Water quality was tested for copper, lead, chlorine and total organic carbon. In addition to water sampling, mold inspection was performed. (\$1,000 (fee); 2018)


**Canal Bank Stabilization, Wayne Avenue at West Bank Expressway, Jefferson Parish, LA.** Geotechnical engineering analysis for a canal bank along Wayne Ave. at West Bank Expressway intersection in Bridge City, LA. Gulf South's scope includes geotechnical engineering analysis consisting of slope stability analysis, sheetpile design recommendations, and general construction recommendations. Gulf South was contracted by Jefferson Parish to provide geotechnical engineering expertise for ongoing stability issues along the canal bank. (\$5,000 (fee); 2015)

**Bayou Sauvage Water Control Pipe Replacement, U.S. Wildlife & Fisheries, New Orleans, LA.** Geotechnical investigation for drainage pipe replacement at 2 sites for the U. S. Fish and Wildlife in New Orleans, LA. New drainage pipes will be 6 feet in diameter. Drill 1 boring to 20 feet in depth at each site and perform laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$3,500 (fee); 2012)

**N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, LA.** Gulf South provided construction materials testing for the project, located at the corner of N. Sibley Street and West Napoleon Avenue. Gulf South's scope of work includes soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing. (\$20,000 (fee); 2021)

**Improvements to Sewer Lift Station No. 48-3, Metairie, Jefferson Parish, LA.** Gulf South provided field and laboratory testing on a call-out basis during construction of the project (SCIP D55116) located at the intersection of Houma Boulevard and West Esplanade Avenue. Scope of services included vibration monitoring, concrete sample pick-up and inspection, pile monitoring, and laboratory testing. (\$10,000 (fee); 2021)

## 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> <p><b>ENGINEERING AND TESTING, INC.</b> Geotechnical &amp; Materials Consultants</p> </div> </div>	
<b>Years experience with this Firm:</b>	
3 years with this firm (2019); 5 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 recently joined Gulf South Engineering and Testing and 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>Raw Water Intake (RWI) Structure Rehabilitation, Plaquemine, Iberville Parish, LA. Geotechnical engineering services for the construction of a replacement water pipeline and intake structure within the Intercostal Water Way (IWW) near Highway 3066 (Bayou Road) in Iberville Parish, LA. Gulf South's scope includes drilling three undisturbed soil borings (depths of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$17,300 (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

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

*Sarah E. Lockwood (continued)*

**Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA.** Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$35,000 (fee); 2020)

**Soniat Canal Stabilization, Harahan, Jefferson Parish, LA.** Geotechnical engineering services for the construction of the stabilization of the east bank of Soniat Canal (approx. 1,700 lf). Scope included drilling three undisturbed soil borings to depths of 50 ft. bgs, laboratory testing, engineering analyses (slope stability analysis) and general construction procedures and recommendations. (\$10,000 (fee); 2020)

**Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, LA.** Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station at the end of Chighizola Lane in Grand Isle. Gulf South's scope includes drilling one undisturbed soil borings to a depth of 80 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall. (\$7,500 (fee); 2020)


**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)

**Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, LA.** Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2021)

**Verrett Canal Slope Instability Project, West Bank Drainage Department, Harvey, Jefferson Parish, LA.** Geotechnical engineering services for the potential solution (i.e. retaining wall, etc.) for the surface movement at the top slope of Verrett Canal located at 89 Natchez Trace in Harvey, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$5,000 (fee); 2020)

**Airline Highway Backwater Protection Project, St. John the Baptist Parish, LA.** Geotechnical engineering services for the construction of floodgates and a pump station at three sites (Blind River/Bayou Trainnasse/M2 Canal). Each site will have a floodgate, and a pump station will be installed in addition to the floodgate at Blind River in St. John Parish, LA. Gulf South's scope includes drilling eight undisturbed soil borings (six at 80 ft bgs, two at 100 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$55,000 (fee); 2020)

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<p><b>Christopher Boutwell</b> Construction Materials Testing (CMT) Supervisor</p>	
<b>Project Assignment:</b>	
Construction Materials Testing (CMT) Supervisor	
<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>	
10 years with this firm (2012); 13 years total (2009)	
<b>Education: Degree(s)/Year/Specialization:</b>	
<i>High School Diploma</i>	
<b>Active registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>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.</p> <p>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.</p> <p><b>Enterigy Water Sampling (Old Gentilly Road Site), New Orleans, LA.</b> Gulf South sampled water from existing pipes and water source to building to determine if any contaminants were found. Water quality was tested for copper, lead, chlorine and total organic carbon. In addition to water sampling, mold inspection was performed. (\$1,000 (fee); 2018)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>ACI Concrete Field Testing – Grade I</li> <li>APNGA Nuclear Moisture/Density Gauge Training</li> <li>OSHA Safety Training – 8 hr.</li> </ul> </div> </div>	

## TEC Professional Services Questionnaire

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

*Christopher Boutwell (continued)*

**N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, LA.** Gulf South provided construction materials testing for the project, located at the corner of N. Sibley Street and West Napoleon Avenue. Gulf South's scope of work includes soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing. (\$20,000 (fee); 2021)

**Improvements to Sewer Lift Station No. 48-3, Metairie, Jefferson Parish, LA.** Gulf South provided field and laboratory testing on a call-out basis during construction of the project (SCIP D55116) located at the intersection of Houma Boulevard and West Esplanade Avenue. Scope of services included vibration monitoring, concrete sample pick-up and inspection, pile monitoring, and laboratory testing. (\$10,000 (fee); 2021)

**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)

**Citrus Road and Greg Court Subsurface Drainage Improvements, 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. (\$20,000 (fee); 2019)


**Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, 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. (\$10,000 (fee); 2019)

**Parish Line Drainage Pump Station Improvements – Phase I, City of Kenner, Jefferson Parish, LA.** Gulf South performed field and laboratory testing during construction of a new pump station in Jefferson Parish, Louisiana. Scope of services consisted of vibration monitoring, timber pile inspection at the site and during installation, performance of a pile load test, earthwork, and concrete testing & inspection. (\$10,000 (fee); 2018)

**Westgate Drainage Improvements, Metairie, Jefferson Parish, LA.** Gulf South performed field and laboratory testing during construction of various drainage improvements. Scope included earthwork testing & inspection and concrete testing & inspection. (\$8,000 (fee); 2018)




## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 10px;"><b>Ross L. White</b></div> <div>Soil Boring Driller</div> </div>	
<b>Project Assignment:</b>	
Soil Boring Driller	
<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>	
4 years with this firm (2018); 13 years total (2009)	
<b>Education: Degree(s)/Year/Specialization:</b>	
High School Diploma	
<b>Active registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>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.</p> </div> <div style="flex: 1; border: 1px solid black; padding: 10px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>ISTC basic, Entergy PowerSafe</li> <li>CDL A Class Driver's License (exp 11/2024)</li> </ul> </div> </div> <p><b>Water Well (Town Center Parkway &amp; I-10 Crossings), City of Slidell, LA.</b> Geotechnical investigation for construction of new water system improvements near Town Center Parkway in Slidell, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 50 ft.; one at 15 ft.), laboratory testing, and engineering analyses including net soil bearing values, below grade and pipeline foundation recommendations, pile load capacities for compression, tension, lateral cases, estimates of settlement, passive lateral earth pressures, modulus of soil reaction, soil resistivity values, bedding and backfill recommendations, rigid and/or flexible pavement design recommendations, special local soil conditions, and general construction procedures and recommendations. (\$9,900 (fee); 2018)</p> <p><b>Lift Station F-13-6 Replacement, Marrero, Jefferson Parish, LA.</b> 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)</p>	



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<p><b>Wyatt M. Jones</b> Field Supervisor; Drilling and Engineering Technician</p>	
<b>Project Assignment:</b>	
Field Supervisor; Drilling and Engineering Technician	
<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>	
2 year with this firm (2020); 5 years total (2017)	
<b>Education: Degree(s)/Year/Specialization:</b>	
<i>Construction Management, Delgado College (ongoing)</i>	
<b>Active registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>Mr. Jones serves as a Field Engineer with Gulf South Engineering and Testing, providing drilling and engineering support services on a variety of projects. His experience includes soil boring logging, field and site reconnaissance, and soil &amp; concrete material testing. Mr. Jones' project responsibilities have included overseeing drilling operations, planning, and coordination of field tasks. He has served as a client liaison, assembled boring layout plans, and supervised drill crews onsite while classifying testable soil samples. In previous positions, Mr. Jones performed all duties of a CCRL accredited lab, including monitoring and coordinating calibrations for all lab and field equipment, performing various tests on concrete and soil specimens, recording and organizing test results. As a CCTV operator, he piloted a robotic operations system underground shooting video of sewer and utility lines; this included using sonar and GPS coordinates to pinpoint utility locations.</p> <p><b>Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA.</b> Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$35,000 (fee); 2020)</p> <p><b>Sewer Lift Station at Mississippi Avenue &amp; 21st Street, Metairie, Jefferson Parish, LA.</b> Gulf South performed construction materials testing and inspection. Services included soil density tests, earthwork inspection and testing, backfill compaction testing, and concrete testing. (\$8,000 (fee); 2021)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>Entergy PowerSafe</li> <li>OSHA Safety Training – 8 hr.</li> </ul> </div> </div>	

## 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:	
<b>Central Avenue Water Main Upgrade, Phase I (Central Ave. Between Airline Hwy. &amp; Karen Ave.),</b> Jefferson Parish, Louisiana  <b>Jefferson Parish</b> <b>c/o Principal Engineering, Inc.</b> 1011 North Causeway Blvd, Suite 19 Mandeville LA 70471  <b>Andre Monnot, P.E.,</b> 985-624-5001 andre@principal-engineering.com		Geotechnical investigation for the reconstruction of Central Avenue and the construction of a 12-in. dia. water main along Central Avenue. Scope included drilling four soil borings in the roadway to depths of 10 & 25 ft, lab testing (strength and classification), and geotechnical engineering analyses consisting of allowable soil bearing values, bedding & backfill recommendations, estimates of settlement, and general construction recommendations.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2014 March		N/A	\$5,000 (fee)

### PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>Metairie Lawn and Ridgelake Drive Roadway &amp; Utility Project,</b> Metairie, Jefferson Parish, Louisiana  <b>Ardurra Group, Inc.</b> 3012 26th Street Metairie LA 70002  <b>Joe Becker, P.E.,</b> 504-454-3866 jbecker@ardurra.com		Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2021 January		N/A	\$8,500 (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>Raw Water Intake (RWI) Structure Rehabilitation</b> , Plaquemine, Iberville Parish, Louisiana  <b>Pan American Engineers</b> 1717 Jackson Street Alexandria LA 71301  <b>Marcus J. Guillory, P.E.</b> , 318-473-2100 marcus@paealex.com	Geotechnical engineering services for the construction of a replacement water pipeline and intake structure within the Intercoastal Water Way (IWW) near Highway 3066 (Bayou Road) in Iberville Parish, LA. Gulf South's scope includes drilling three undisturbed soil borings (depths of 60 ft. bgs), laboratory testing, engineering analyses 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>
2020 January	N/A	\$17,300 (fee)

<b>PROJECT NO. 4</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Bayou Sauvage Water Control Pipe Replacement</b> , U.S. Wildlife & Fisheries, New Orleans, Louisiana  <b>Johnson McAdams</b> 340 Poplar View Lane East, Suite 4 Collierville TN 38017  <b>Chip Johnson, P.E.</b> , 901-861-4200 chipjohnson@bellsouth.net	Geotechnical investigation for drainage pipe replacement at 2 sites for the U. S. Fish and Wildlife in New Orleans, LA. New drainage pipes will be 6 feet in diameter. Drill 1 boring to 20 feet in depth at each site and perform laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2012 July	N/A	\$3,500 (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>Water Well (Town Center Parkway &amp; I-10 Crossings), City of Slidell, Louisiana</b>  <b>City of Slidell</b> <b>Engineering Department</b> Post Office Box 828 Slidell LA 70459  <b>Blaine Clancy, P.E., 985-646-6124</b> bclancy@cityofslidell.org	Geotechnical investigation for construction of new water system improvements near Town Center Parkway in Slidell, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 50 ft.; one at 15 ft.), laboratory testing, and engineering analyses including net soil bearing values, below grade and pipeline foundation recommendations, pile load capacities for compression, tension, lateral cases, estimates of settlement, passive lateral earth pressures, modulus of soil reaction, soil resistivity values, bedding and backfill recommendations, rigid and/or flexible pavement design recommendations, special local soil conditions, 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 December	N/A	\$9,900 (fee)

<b>PROJECT NO. 6</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, Louisiana</b>  <b>ECM Consultants, Inc.</b> 1201 Clearview Parkway Suite 200 Metairie LA 70001  <b>Sunina Shrestha, P.E., 504-885-4080</b> sshrestha@ecmconsultants.com	Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing levee to the protected side.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2021 September	N/A	\$35,000 (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>Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane),</b> Grand Isle, Jefferson Parish, Louisiana  <b>Principal Engineering, Inc.</b> 1011 N Causeway Blvd Ste 19 Mandeville LA 70471  <b>André C. Monnot, P.E.,</b> 985-624-5001 andre@pi.aec.com	Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station at the end of Chighizola Lane in Grand Isle. Gulf South's scope includes drilling one undisturbed soil borings to a depth of 80 feet below the ground surface, laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 May	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>Lift Station F-8-3 Replacement,</b> Metairie, Jefferson Parish, Louisiana  <b>Richard C. Lambert Consultants, LLC</b> 900 West Causeway Approach Mandeville LA 70471  <b>Franz J. Zemmer,</b> 985-727-4449 fzemmer@rclconsultants.com	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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 March	N/A	\$8,500 (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>Drainage Infrastructure Improvements, South Avondale Subdivision</b> , Avondale, Jefferson Parish, Louisiana  <b>Jefferson Parish</b> <b>c/o Phoenix Global Construction</b> 2901 Independence St Ste 103 Metairie LA 70006  <b>Jack Lo</b> , 504-883-9021 phoenixglobal@bellsouth.net	Geotechnical investigation for drainage improvements on S. Jamie Boulevard in Avondale, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet, lab testing, and engineering analyses including allowable soil bearing values, bedding and backfill recommendations, 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 January	N/A	\$7,000 (fee)

<b>PROJECT NO. 10</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>St. Bernard Water Treatment Plant (WTP) New Pump Station Cofferdam</b> , Chalmette, St. Bernard Parish, Louisiana  <b>St. Bernard Parish</b> <b>c/o Principal Engineering, Inc.</b> 1011 N Causeway Boulevard, Ste 19 Mandeville LA 70471  <b>Andre Monnot, P.E.</b> , 985-624-5001 andre@principal-engineering.com	Geotechnical engineering analyses for a cofferdam for a new pump station within St. Bernard WTP in Chalmette, LA. Cofferdam approximately 20 feet deep, 48.5 ft by 40.5 ft. Engineering analyses consisted of sheetpile wall parameters (tip depth, moment) where minimal bracing is utilized.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2012	N/A	\$3,500 (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.**



### **CRITERIA 1 • PROFESSIONAL TRAINING AND RELATED EXPERIENCE**

**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 & Regional Transit Authority-recognized small business in Louisiana. Our 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., a founding principal and Professional Engineer registered in Civil Engineering in Louisiana and Mississippi, has specific and extensive training & experience in geotechnical engineering. He has three decades 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*
- *Earthwork; settlement analyses*
- *Shoreline protection*
- *Scour analyses*
- *LRFD Design*
- *Mechanically Stabilized Earth (MSE) Walls*
- *Development of load test programs*
- *Geotechnical instrumentation and construction monitoring*
- *Canals and pump station foundations*
- *Pipe bedding and backfill*
- *Roadways, 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:

- *Fill and base compaction and density testing*
- *Vibration monitoring*
- *Pre- and post-construction inspection*
- *Concrete testing and inspection*

## TEC Professional Services Questionnaire

### N. continued.

- 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.

### CRITERIA 2 • CAPACITY FOR TIMELY COMPLETION OF NEWLY-ASSIGNED WORK

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 & 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.

### CRITERIA 3 • LOCATION OF PRINCIPAL OFFICE

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

### CRITERIA 4 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

See *Item M*; Gulf South has not been involved in litigation with Jefferson Parish.

### CRITERIA 5 • PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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. **Multiple examples of this work are included throughout this form in both the Personnel Résumés section (Item K) and Representative Project Work (Item L).**

Gulf South invites you to contact any of our clients for a candid discussion of our service and professionalism, and offer these direct references:

## TEC Professional Services Questionnaire

### N. continued.

**Joey Tureau**, Director of Transportation, Ascension Parish  
(225-450-1013 | jtureau@apgov.us)

**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)

### CRITERIA 6 • SIZE OF FIRM

At well over two dozen 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.

### CRITERIA 7 • PAST PERFORMANCE ON PARISH CONTRACTS

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:

- *Improvements to Sewer Lift Station No. 48-3, Metairie, Jefferson Parish, LA*
- *New Building and Parking Lot, East Bank Juvenile Services, Jefferson Parish, LA*
- *Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, LA*
- *N. Sibley Drainage Improvements (N. Sibley at W. Napoleon), Metairie, Jefferson Parish, LA*
- *Sewer Lift Station at Mississippi Avenue & 21st Street, Metairie, 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*
- *Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, Jefferson Parish, LA*
- *Earhart Expressway (Clearview Parkway to Central Avenue) Lighting Improvements, Jefferson Parish, LA*
- *West Esplanade Avenue Restoration (Tartan Drive to Haring Road), Metairie, Jefferson Parish, LA*
- *Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA*
- *Improvements to Sewer Lift Station M-11-3 & Force Main, Marrero, Jefferson Parish, LA*
- *Westgate Drainage Improvements, 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*
- *New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA*
- *New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA*
- *Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA*

## TEC Professional Services Questionnaire

### N. continued.

- Parish Line Drainage Pump Station Improvements - Phase I, City of Kenner, Jefferson Parish, LA
- Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA
- New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA
- Drainage Improvements, Citrus Road & Greg Court, 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
- Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA
- Lift Station Replacement - N. Pierce Avenue & Versailles Street, Metairie, Jefferson Parish, LA
- Marsh Island Restoration Project, Lafreniere Park, 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
- Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA
- Submerged Roads Program - Multiple Phases, Metairie, Jefferson Parish, LA
- St. Peter's Ditch (4700 W. Metairie Ave.), Metairie, Jefferson Parish, LA
- Engineering Analysis Review (EAR) - Lafitte Tidal Protection Project (Phase I), Lafitte, Jefferson Parish, LA
- David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, LA
- Marrero WWTP New Administration Building and Safe Room, Marrero, Jefferson Parish, LA
- New Sewer Lift Station, Mississippi Ave. and Fulton St., Metairie, Jefferson Parish, LA
- Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, LA
- Canal Bank Stabilization, Wayne Avenue at West Bank Expressway, 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.

### 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: March 10, 2022

**The Louisiana Professional Engineering and Land Surveying Board has the following information on file:**

**Name:**

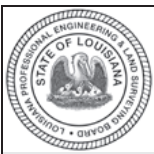
Gulf South Engineering and  
Testing, Inc.

**Public Address:**

Mr. Chad Poche, PE 15 Veterans Memorial Boulevard  
Kenner, Louisiana 70062

**License/Certificate Information w/ Supervision**

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0004626	Active	07/27/2010	03/31/2023	Mr. Chad Mitchell Poche # PE.0027667 - Active



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

**Mr. Chad Mitchell Poche**

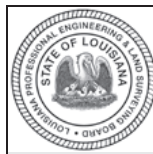
License/Certificate Type - Number

**PE.0027667**

Expiration Date

**09/30/2022**

Status: **Active**



LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

**Mr. Blake Elliot Vutera**

License/Certificate Type - Number

**PE.0038607**

Expiration Date

**09/30/2022**

Status: **Active**



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ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

**Ms. Sara Elinor Lockwood**

License/Certificate Type - Number

**EI.0034718**

Expiration Date

**03/31/2023**

Status: **Active**



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ENGINEERING & LAND SURVEYING BOARD  
(LAPELS)  
9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
www.lapels.com

**Mr. Ralph P. Fontcuberta Jr.**

License/Certificate Type - Number

**PLS.0004329**

Expiration Date

**09/30/2022**

Status: **Active**



**GULF SOUTH**

ENGINEERING AND TESTING, INC.  
Geotechnical & Materials Consultants





DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

**Gulf South Engineering and Testing, Inc.**

is Certified-Active as a Small Entrepreneurship with  
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 2/25/2022 to 2/25/2023 .

Certification No. 11011

A handwritten signature in black ink, reading "Stephanie Hartman", is written over a horizontal line.

Stephanie Hartman,  
Director, Entrepreneurial Services



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



July 1, 2021

Cassandra Poche  
Gulf South Engineering and Testing Inc  
15 Veterans Memorial Blvd  
Kenner, LA 70062

Dear Ms. Poche:

We are pleased to inform you that your firm has been certified as a Small Business Enterprise (SBE).

Your firm remains certified in the SBE Program until there are any changes to your company or to your personal net worth that exceed the SBE eligibility criteria. Please note that you must notify our office immediately regarding any changes which affect the economic disadvantage, size, ownership or control of your firm.

In order to maintain eligibility, you are required to submit an annual affidavit stating that your firm continues to meet the eligibility requirements of the program. If you are both DBE and SBE certified, you will receive a Disadvantaged Business Enterprise Annual Affidavit approximately 4 weeks prior to your DBE Certification anniversary date. The annual affidavit for the DBE program will automatically apply to your SBE certification. If you are SBE certified only, you will receive a Small Business Enterprise Annual Affidavit approximately 4 weeks prior to your SBE Certification anniversary date.

We reserve the right to withdraw this certification if at any time it is determined that SBE certification knowingly obtained by the submission of false, misleading, or incorrect information. We further reserve the right to request additional information and/or conduct an on-site visit at any time during your certification period.

If we can be of further assistance, please contact the Office of Small Business Development at (504) 827-8301.

Sincerely,

A handwritten signature in blue ink, appearing to read "Adonis C. Expose", is written over a light blue circular stamp.

Adonis C. Expose  
DBE/SBE Liaison Officer III





## CERTIFICATE OF ACCREDITATION



# Gulf South Engineering and Testing, Inc.


in

**Kenner, Louisiana, USA**

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories ([aashtoresource.org](http://aashtoresource.org)).

  
Jim Tymon,  
AASHTO Executive Director

  
Moe Jamshidi,  
AASHTO COMP Chair

This certificate was generated on 08/17/2021 at 7:12 PM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](http://aashtoresource.org/aap/accreditation-directory)



**USACE CERTIFICATE  
OF  
LABORATORY VALIDATION**



**Gulf South Engineering and Testing**

**15 Veterans Memorial Blvd  
Kenner, LA, United States  
Trey Binder  
(504) 305-4401**

has demonstrated, by abbreviated audit of its AASHTO accreditation, or by inspection of required records, equipment, procedures, facilities, and/or final reports, its proficiency to perform testing of construction materials, as established by the quality standards of AASHTO R 18 guidance and the requirements of the applicable ASTM standards.

**THIS USACE CERTIFICATE OF LABORATORY VALIDATION IS ACCURATE AS OF ITS DATE AND TIME OF  
GENERATION:**

**02 JUN 2020 AT 18:10 HOURS**

**ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 06/02/2022**

PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON  
OUR PUBLIC WEBSITE: <https://mtc.erdcdren.mil>

Chad A. Gartrell, PE, Director  
USACE Materials Testing Center  
Vicksburg, Mississippi, USA

**SOILS**

Soils - D 698 - Req - Compaction Characteristics by Standard Effort  
Soils - D 1140 - Req - Material Finer than 75  $\mu$ m (No. 200) Sieve  
Soils - D 1557 - Req - Compaction Characteristics by Modified Effort  
Soils - D 2216 - Req - Water Content  
Soils - D 2974 - Req - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils  
Soils - D 4318 - Req - Liquid & Plastic Limits & Plasticity Index  
Soils - D 4643 - Req - Determination of Water Content of Soil by Microwave Oven



**GULF SOUTH**

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

## **Section Four**

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### **Pivotal Engineering – SOQ Packet**

## SOQ – Table of Contents

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2. Organization Chart.....	2 – 1
3. Personnel Qualifications .....	3 – 1
4. Team Profiles & Experience.....	4 – 1



## Section 1 - Introduction

Completing engineering projects in the Greater New Orleans area requires a unique blend of technical experience, well-developed understanding of local environmental conditions and sensitivity to community stakeholders. The **Pivotal Engineering, LLC. – BFM – Gulf South** team (herein referred to as “team” or “the team”) is an assembly of firms with a proven track record in delivering quality professional engineering and emergency assessments. The reputation of each firm stands alone as a leader in their respective disciplines. For this project, maximum attention will be given to the technical, social, environmental, and innovative aspects of assessments, design, and maintenance.

The foundation of this team is comprised of both their well-established working relationship and the comprehensive skill set they have collectively. Each firm brings a strong background in one or more of the following disciplines:

- Civil Engineering
- Environmental Engineering
- Coastal Restoration
- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Facility Assessments
- Geotechnical Engineering & Testing
- Data Management
- Data Analytics & Visualization
- Construction Inspection/Management
- Disaster Response/Recovery

Under these disciplines, each firm brings strong technical skills not only in the fundamental of engineering design, but in the latest trends, approaches and software needed for modern solutions. The team is well established in database management, geographic information systems (GIS), hydrologic/hydraulic modeling, computer-aided design and real-time monitoring equipment. Our team’s capabilities will provide Jefferson Parish with the most effective and efficient approach for providing high quality services.

As guiding values, the team strives for open communication and continual improvement. With

each project, internal processes and methodologies are revised to ensure that planning, design and decision-making conversations are facilitated with efficiency and effectiveness. Each concept is vetted with considerations for innovation, resiliency, added value and technical feasibility. Engineering design must encompass classical theory, industry standards, modern technology and a touch of revolution.

Our integrated team will provide an optimized concurrent engineering environment that provides an opportunity to substantially reduce the design time and total cost of a project. Our integrated team includes skilled members from the various disciplines, which enables a simultaneous contribution to an early project definition and increased likelihood of reduced lifecycle cost. Our team is well positioned to avoid costly alterations later in the design process.

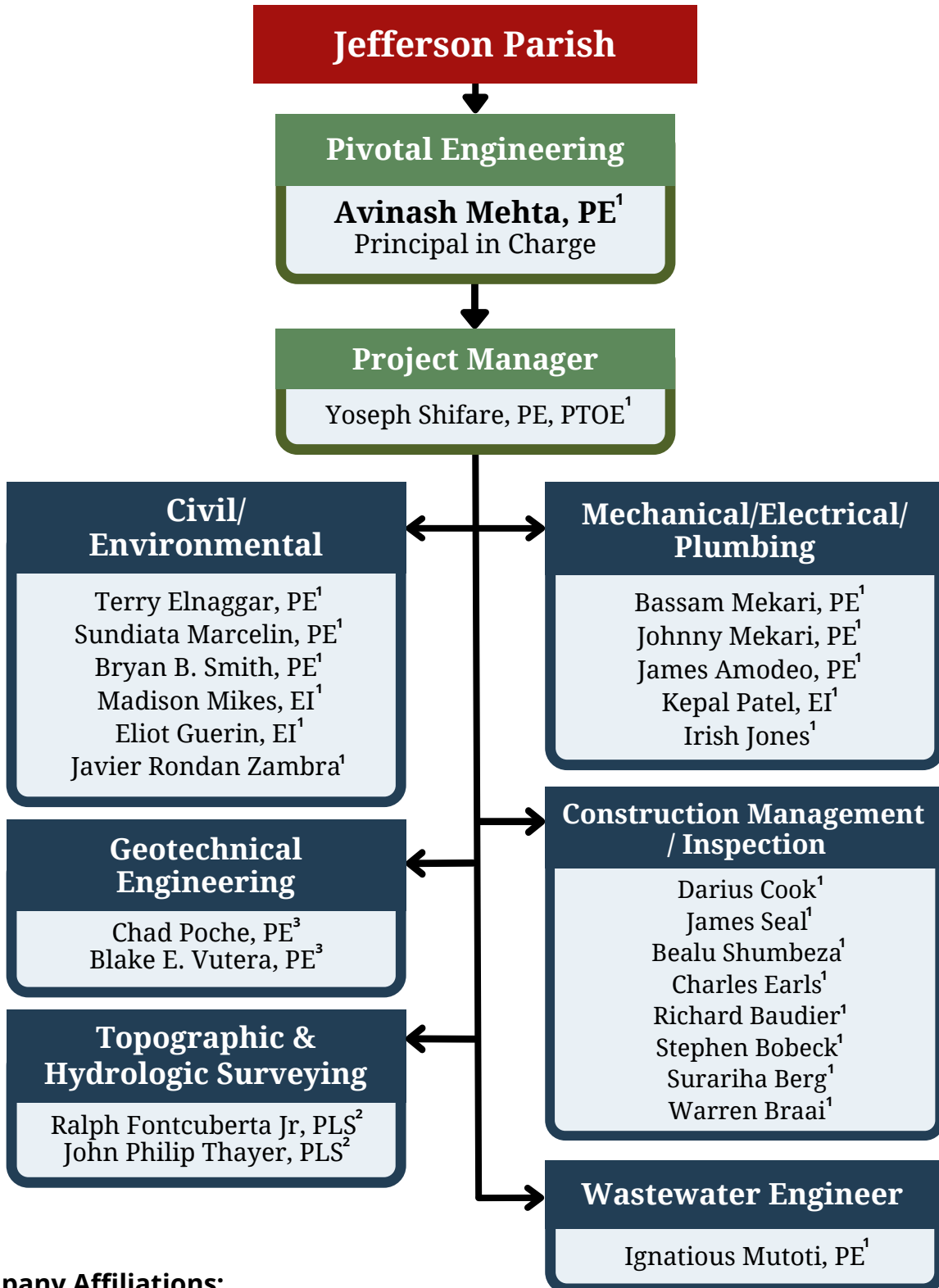
Our management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable team members with exceptional technical skills and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that each project is managed successfully, on time, and within budget and schedule.

Our team is committed to defining the project and setting expectations as our first step toward making that project a success. We, as a team, will apply various techniques for project estimation and cost control including:

- Setting Expectations Early, Review Often
- Planning the Project Budget
- Keeping Track of Costs
- Establishing a Communication Plan
- Maintaining Effective Time Management
- Implement Project Change Control
- Use of Earned Value to Monitor Both Cost and Schedule

Our aim is to provide local talent combined with industry subject matter experts who can guide the project to the optimal solution and manage the implementation to a successful outcome.

## Section 2 - Organizational Chart



### Company Affiliations:

- 1. Pivotal Engineering, LLC
- 2. BFM Corporation
- 3. Gulf South Engineering and Testing, Inc.

## Section 3 – Personnel Qualifications

**Pivotal's Key Personnel** have proven excellence in managing projects from cradle to grave while providing value engineering, which saved our clients hundreds of thousands of dollars. Our staff was essential in helping metropolitan New Orleans in expediting its post Katrina recovery by handling and completing over 50 critical City, Parish and/or FEMA funded projects. The current staff of Pivotal has extensive experience managing a variety of complex projects from conception to construction.

The majority of the teams's staff has extensive design as well as construction experience. This advantage minimizes contractor change orders, expedites project schedules and improves project details. Our Engineers have great track records with helping our clients meet compressed deadlines while eliminating unnecessary expenses yet delivering better than the intended product. We have also proven to our clients our added "Value Engineering" on several projects, which resulted in direct savings of hundreds of thousands' dollars.

### Principal In Charge

**Avinash Mehta, PE – Pivotal  
Principal In Charge – Client Relations**

#### **Education**

M.S. Civil Engineering, University of Central Florida, 2003

B.S. Civil Engineering, NMU – India, 2000

#### **Professional Associations**

LA PE # 35100

#### **Experience**

Mr. Mehta serves as a Principal of Pivotal Engineering. Mr. Mehta has over 18 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 project management for A&E projects, process and design, civil engineering, water and wastewater engineering, drainage design and permitting, wastewater system design, potable water system design, conceptual planning, and design for coastal restoration projects.

### Project Manager

**Yoseph Shifare, PE, PTOE – Pivotal  
Project Manager/Sr. Civil Engineer**

#### **Education**

M.S. Civil Engineering, University of Louisville, Kentucky, 2014

B.S. Civil Engineering, University of Asmara, Eritrea, 2001

#### **Professional Associations**

LA PE # 42747 LA PTOE

#### **Experience**

Mr. Shifare serves as a Project Director of Pivotal Engineering in charge of Civil/Transportation engineering projects. He has over 19 years engineering, project and construction management experience for public infrastructures, industrial, commercial and private facilities. As a project director he designs, lead and manage the day-to-day efforts of engineers on projects that include roadway, traffic, drainage/storm water management, water and wastewater, and landfills. He 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.

## **Civil/Environmental Engineering**

### **Tarek Elnaggar, PE – Pivotal Senior Environmental Engineer**

#### **Education**

M.S. Civil Engineering, University of California, Berkley, 1988

B.S. Civil Engineering, Louisiana State University, 1985

#### **Professional Associations**

Louisiana/Civil/Environmental Engineering/23832

Texas/Civil/Environmental Engineering/85089

Mississippi/Civil/Environmental Engineering/14839

#### **Experience**

Mr. Elnaggar serves as a Principal of Pivotal Engineering LLC. He is the lead civil and environmental engineer for the company. His 30 years of experience includes project management and design work in roadways, drainage, sewer, earthen levees, floodwalls, floodgates, and pump stations. He has performed multiple engineering projects for public and private clients on the local, state, and federal level. He has also served on the construction program management side with both municipal, and industrial clients, providing oversight of projects designed by other consultants, providing design reviews and coordination between the consultant and the multiple other agencies involved. His experience includes design and construction management for civil and environmental projects including municipal and industrial solid waste permitting, risk assessments,

water permitting and compliance, air permitting and compliance, emission inventories and reporting, groundwater investigations, regulatory compliance, environmental process design, and permitting.

### **Sundiata Marcelin, PE – Pivotal Civil Engineer**

#### **Education**

BS. Civil Engineering

#### **Professional Associations**

LA PE # 38589

#### **Experience**

Mr. Marcelin has over 10 years of experience in both Civil and Structural Engineering as well as over 15 years of experience in Construction Management. This Civil Engineering experience includes complete urban roadway restoration design with new sewage, water, drainage, and full Right-Of-Way layout in Jefferson, St Bernard, and Orleans Parish. Mr. Marcelin's extensive knowledge of the civil infrastructure and design standards of Orleans Parish makes him a suitable candidate as an experienced design reviewer for both above ground and sub-surface infrastructure. His project experience include roadway, traffic analyses, pavement structural design, use of geosynthetics, geometric design, line and grade analyses, pavement marking, intersection improvements, pedestrian and bicycle lanes or paths, excavation and embankment, traffic, drainage/storm water management, water and wastewater systems.

## **Bryan B. Smith, PE – Pivotal Environmental Engineer**

### **Education**

MS / 2014 / Civil and Environmental Engineering

BS / 2011 / Environmental Engineering

### **Professional Associations**

LA PE # 0043843/ 2019

### **Experience**

Mr. Smith serves as a project engineer at Pivotal Engineering, LLC in support of civil and environmental engineering projects. His projects range from public to private sector and require effort in both the field and the office. He has experience in infrastructure design, project management, permitting, field sampling, flow rate testing and laboratory analysis.

## **Madison Mikes, EI – Pivotal Project Engineer**

### **Education**

MS / 2020 / Environmental Engineering

BS / 2017 / Environmental Engineering

### **Professional Associations**

LA EI # 0033878

### **Experience**

Ms. Mikes serves as an environmental engineer with Pivotal Engineering. She assists within environmental engineering projects and has been able to add considerable value in a short amount of time. She has served as project engineer on a number of project types ranging from design and permitting of wastewater treatment systems to air permitting and compliance monitoring. Ms. Mikes played an integral role in the Hurricane Laura disaster recovery

efforts in Lake Charles. She managed the large dataset of waste disposal and perform QA/QC services throughout the project. She managed field crews at the disposal site and ensure proper logistics of contractor vehicles were maintained. Ms. Mikes has experience in waste characterization for both solid and hazardous waste materials.

## **Eliot Guerin, EI – Pivotal Civil Engineer Intern**

### **Education**

B.S. / 2018 / Civil Engineering

### **Professional Associations**

2018 E.I./Civil Engineering

### **Experience**

Mr. Guerin is a Civil Engineer with 3 years of experience at Pivotal Engineering, focusing on roadway, sanitary sewer, and storm drainage design. His project experience include roadway, traffic analyses, pavement structural design, use of geosynthetics, geometric design, line and grade analyses, pavement marking, intersection improvements, pedestrian and bicycle lanes or paths, excavation and embankment, traffic, drainage/storm water management, water and wastewater, and landfills. He is a very competent design engineer, and hydraulic & water quality modeler, and has excellent CIVIL 3D skills.

## **Javier Rondan Zambra – Pivotal Civil Designer**

### **Education**

M.S. Civil Engineering - 2021

B.S. Civil Engineering - 2018

### **Experience**

Mr. Rondan serves as a civil project engineer with over two (2) years of experience in the transportation sector with a special focus on

highway design, construction, and maintenance. He is knowledgeable in traffic engineering design and operation. He is well versed in construction scheduling, means & methods for utility installations and green infrastructure integration.

### **Mechanical/Electrical/ Plumbing Engineering**

#### **Bassam Rossi Mekari, PE – Pivotal Principal In Charge/ Senior Electrical Engineer**

##### **Education**

BS, Electrical Engineering, Louisiana State University 1987

MS in Electrical Engineering - 3 hours remaining

##### **Professional Associations**

LA PE # 31801, NFPA Member, ASHRAE Member, American Military Engineers

##### **Experience**

Mr. Mekari serves as a Principal of Pivotal Engineering and the Engineering Manager in charge of all of the electrical engineering projects. He has over 28 years of experience in designing and installing electrical distribution systems for public, commercial, and industrial facilities such as schools, fire stations, justice centers, police stations, street lights, lift stations, PLC automations and thermal reactors. He also designed/built electrical installations throughout the US and worldwide. Mr. Mekari has designed over 100 electrical systems and will be instrumental in the overall electrical design and project management.

#### **Johnny Mekari, PE – Pivotal Senior Electrical Engineer**

##### **Education**

BS / 1987 / Electrical Engineering

##### **Professional Associations**

Louisiana/Electrical Engineering/25415

##### **Experience**

Mr. Mekari serves as the Senior Electrical Engineer of Pivotal Engineering. He has 26 years Electrical Systems Design & Installations Mr. Mekari serves as the Vice President of Pivotal Engineering for the Baton Rouge Operations. He has developed extensive experiences in designing and installing Electrical Distribution Systems and Control Systems for industrial, commercial and municipal facilities. The footprint of the projects designed by Mr. John Mekari extends to local, national and international levels.

#### **James Amodeo, PE – Pivotal Senior Mechanical Engineer**

##### **Education**

B.S. Mechanical Engineering, S.U.N.Y at Stony Brook, Stony Brook, New York

##### **Professional Associations**

Louisiana / Mechanical / 36489

Colorado / Mechanical / 36652

##### **Experience**

Mr. Amodeo serves as the Senior Mechanical Engineer for Pivotal Engineering. He has over 18 years of experience in designing and specifying mechanical and plumbing systems for municipal, industrial, commercial, process and manufacturing applications of all magnitudes. Mr. Amide is an ASHRAE Member, NSPE Member, and ASME Member.



## **Kepal Patel, EI – Pivotal** **Electrical Engineer Intern**

### **Education**

B.S. Electrical Engineering/University of New Orleans

### **Professional Associations**

LA EI # 34453 / Electrical Engineering

### **Experience**

Mr. Patel serves as an Electrical Designer for Pivotal Engineering. Mr. Patel designing experience includes CADD work, generally to show the pole location, laying out circuit design from the power source to individual poles, type of foundation used, type of fixture used and include its specifications. Currently, he is working on several JP streetlight projects and his role requires Voltage Drop Calculations, Conduit sizes, Wire sizes, grounding and bonding etc. and thus determine what kind of electrical components would be required for the installations.

## **Irish Jones – Pivotal** **Electrical Designer**

### **Education**

5 years of college in Electrical Engineering – University of Texas at Arlington

### **Experience**

Mr. Jones serves as the senior electrical designer of Pivotal Engineering. He has over 40 years of experience in designing electrical installations (power distributions) for industrial and commercial applications of all magnitudes. He obtained his first-Class A electrical license in 1967 in Georgia. Being an electrical contractor for over 40 years, Mr. Jones has developed an extensive experience in not only designing and laying out electrical designs, but also in supervising the installations in the construction phase. His expertise allows the team to provide the

BEST and MOST ECONOMICAL Electrical Design for any facility. Due to his experience as an electrician and a contractor, Pivotal will not need to depend on the In-plant electrician while conducting the electrical components field investigations.

## **Geotechnical Engineering**

## **Chad M. Poché, P.E. – Gulf South** **Geotechnical Engineer**

### **Education**

M.S., 1998, Civil Engineering, University of New Orleans

B.S., 1993, Civil Engineering, Louisiana State University

### **Professional Associations**

1998, Civil Engineer, Louisiana No. 27667

2002, Civil Engineer, Mississippi No. 15405

### **Experience**

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. Further, Mr. Poché is a Member-at-Large of the American Council of Engineering Companies of Louisiana. 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.

### **Blake E. Vutera, PE – Gulf South Geotechnical Engineer**

#### **Education**

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

#### **Professional Associations**

2013, Civil Engineer, Louisiana, No. 38607

2018, Professional Engineer, Texas No. 129410

#### **Experience**

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. 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.

### **Land Surveying**

### **Ralph Fontcuberta Jr, PLS – BFM Professional Land Surveyor**

#### **Education**

Coursework, Building, Delgado College, New Orleans

Coursework, Math, University of New Orleans

#### **Professional Associations**

1974, Professional Land Surveyor (Louisiana Lic. No. 4329)

1974, Professional Land Surveyor (Mississippi Lic. No. 1633)

#### **Experience**

Ralph P. Fontcuberta, Jr., PLS has provided services on an almost incalculable number of surveying projects throughout southeastern Louisiana in the past half century and has been a registered Professional Land Surveyor (PLS) since 1974. He is thoroughly knowledgeable in all aspects of surveying: topographic, hydrographic, boundary, right-of-way surveying, and all facets thereof. He has provided surveying services for residential, plant, and industrial layout projects, ranging from small private lots & buildings to multi-million-dollar programs, including the New Orleans FEMA Streets/Recovery Roads Program. Since the beginning of his career, his work has entailed

computations, drafting, and field work for various industrial, commercial, municipal, and private clients. Projects have included topographic surveying needed for a wide variety of engineering, architectural, construction, and other related endeavors. This work has included projects for numerous branches of virtually every regional city/parish/town government, multiple State agencies, Federal agencies, private/public companies, and numerous other public/private entities.

## **Wastewater Engineering**

### **Ignatious Mutoti, PE**

#### **Wastewater & Drainage Engineer**

##### **Education**

Phd Environmental Engineering, University of Central Florida, 2003

M.S. Environmental Engineering, University of Sydney, Australia, 1998

B.Sc. Applied Chemistry and Chemical Technology, University of Zimbabwe (1993)

##### **Professional Associations**

Licensed Class 2 Wastewater Treatment Plant Operator (Virginia)

Virginia PE 0402040167

##### **Experience**

Dr Mutoti has over 26 years of experience in the field of water and wastewater and has held various positions in the public, academic and private consulting sectors. In the past, Dr. Mutoti has held positions as Chemist and Water/Wastewater Laboratory manager, municipal Water/Wastewater Process Engineer responsible for treatment process optimization and troubleshooting for facilities up to 162 MGD. He has taught both undergraduate and graduate level water and wastewater engineering courses as a professor and has been involved in higher

level research projects. Dr. Mutoti has authored and co-authored several journal and newsletter articles and presented at various conferences. He has many years of consulting engineering experience design and operating water and wastewater facilities. His experience includes the street design, pocket park improvements, roadway enhancements, drainage studies, process and design, water and wastewater master planning, drainage design permitting, detention and filtration of stormwater, open channel and pipe flow drainage systems, created wetlands structures, bioretention, design of hydraulic control structures. wastewater system design, potable water system design and conceptual planning and design for coastal restoration projects. In addition, Ignatius has extensive experience delivering complex infrastructure, open space, and/or capital projects for government clients involving coordination across multiple departments and agencies.

## **Data Management**

### **Elena LeBlanc – Pivotal**

#### **Data Analyst**

##### **Education**

BS/Engineering/Louisiana State - Baton Rouge, LA

##### **Professional Associations**

Lean/Six Sigma Green Belt

##### **Experience**

Ms. LeBlanc serves as a data analyst at Pivotal Engineering. Her experience includes assisting in the planning and development of a variety of projects. She has over 4 years of experience with buildout and develop operations, CRM software, Survey Designing, and data analytics.

**Michael Malley – Pivotal**  
**Data Analyst**

**Education**

BS/ 2013/ Computer Engineering

**Professional Associations**

N/A

**Experience**

Mr. Malley serves as a data analyst at Pivotal Engineering. He has 8 years of experience in computer engineering & data analytics. His experience includes database management, computer architecture, troubleshooting

## **Section 4 - Team Profiles & Experience**

### **4.1 Team Profiles**

#### **4.1.1 Pivotal Engineering**

Pivotal is a full-service engineering design firm based in New Orleans, Louisiana. Pivotal has established a reputation for providing superior service to its clients and delivering quality work on time and within budget. Pivotal's principals and staff have in excess of 200 years of combined experience in architectural, civil, mechanical, electrical, structural and environmental engineering as well as construction management, construction inspection and program / project management for both public and private entities across the Gulf South Region.

Pivotal Engineering is currently providing engineering and management services to many municipalities and state agencies in the region including; the City of New Orleans, Jefferson Parish, the City of Shreveport, St. Charles Parish, and St. John the Baptist Parish. These services have also been provided to private clients such as Entergy, Waste Management, and private developers. Pivotal Engineering has in depth understanding of procedures and regulations for local, state, and federal governmental agencies.

Pivotal has worked with private developers and government agencies to help deal with the challenges of economic revitalization, landfill development and brownfield reclamation in order to accommodate the growing infrastructure needs of urban cities. Our primary focus begins with assisting public sector agencies and private development companies to effectively plan and accommodate growth, in an environmentally sustainable manner. We have assisted urban renewal projects throughout all stages of project development including: analyzing zoning issues, planning commission interaction, conducting public hearings, and fostering community visioning and support.

Pivotal is a certified Small Business Enterprise with both the Small Business Administration and the New Orleans Regional Transit Authority.

Furthermore, Pivotal is a Disadvantaged Business Enterprise with City of New Orleans, Sewerage & Water Board of New Orleans, Louis Armstrong New Orleans International Airport, Harrah's New Orleans Casino & Hotel, and the Housing Authority of New Orleans (HANO). Pivotal Engineering is also certified by the Louisiana Department of Economic Development as a Small Entrepreneurship SE (Hudson Initiative) firm.

Pivotal Engineering, LLC is conveniently located in the center of New Orleans. Since its inception, Pivotal's main office of operations has been at 1515 Poydras St. Suite 1875, New Orleans, LA. Work assigned to Pivotal will be performed from the main office.

#### **4.1.2 BFM Corporation**

BFM utilizes Leica's C10 Scanstation for full 3D scans; we have the ability to process and model for any design purpose; high-definition scanner data is processed using Leica Cyclone 8 and Autodesk ReCap 2016. Furthermore, the firm is working on non-traditional survey deliverables, including virtual tours, live walkthroughs, detailed pipe rack modeling, and modeling for use with Autodesk Revit Architecture.

#### **4.1.3 Gulf South Engineering & Testing Inc.**

Gulf South Engineering and Testing, Inc. is a geotechnical engineering and construction materials testing and inspection company that began operations in 2011. Gulf South provides a broad range of geotechnical-related services, including Geotechnical Engineering, Construction Materials Testing, Laboratory Testing, and Soil/Water Sampling. Gulf South is licensed in the states Louisiana, Mississippi, and Texas. The combined work experience of Gulf South's principals and key employees totals more than 50 plus years and thousands of projects.



## **4. 2 Experience with similar projects:**

Pivotal Engineering's team includes senior civil and environmental engineers and technicians with extensive experience and excellence in managing projects from cradle to grave while providing value engineering, which saved our clients hundreds of thousands of dollars. Our staff was essential in helping metropolitan New Orleans in expediting its post Katrina recovery by handling and completing over 50 critical City, Parish and/or FEMA funded projects. The current staff of Pivotal has extensive experience managing a variety of complex projects from conception to construction.

### **Evaluate Implementation of An Automated Water Service Metering; Jefferson Parish, LA**

Pivotal was retained by Jefferson Parish under a prime consultant Digital Engineering to evaluate and test the existing Jefferson Parish water service metering system, accuracy, and billing system. Based on the evaluation and testing results the team recommended an Automated Meter Reading (AMR) and Automatic Metering Infrastructure (AMI) for the existing 164,660 water service meters. This study evaluated multiple vendors and AMR/AMI systems to compare fixed vs cellular network, FCC licensed vs unlicensed, meter data management system, and customer portal. Further, the study conducted survey of existing water meter cast iron and plastic underground boxes of different shapes, sizes and manufacturers to recommend on how to retrofit existing meter box to accommodate the proposed AMR/AMI system.



### **Evaluate Implementation of An Automated Water Service Metering; Jefferson Parish, LA**

Pivotal teamed with Digital Engineering for the Advanced Metering Infrastructure for Water Services in Jefferson Parish. Pivotal was responsible for procurement document development & comprehensive management, which included:

**Phase 1:** Development of RFP, Procurement Documents, Management of Communication and Billing System

#### **Task 1 – Review Existing Information**

Assisted with conducting a commercial meter survey of 5% of the 2" and above meters in the existing system to assess and determine the different types of commercial meter installations that were required.

#### **Task 3 – AMI Slow Start**

Provided a competent inspector to observe and inspect the installation of new water meters for the AMI slow start.

### **Clearview & Airline Intersection Improvements; Jefferson Parish, LA**

- *Roadway Paving and Curb Design*
- *Subsurface Drainage*
- *Construction Management*

Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.





### **Wright Road Improvements; New Orleans, LA**

- *Roadway Paving and Curb Design*
- *Subsurface Drainage and Sewer Design*
- *Construction Management*

Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

- Reviewed the required topographical survey of existing site conditions prior to start of design phase.
- Designed new drainage network for 10 years return period.
- Designed new gravity sewer collection system to replace existing system that had been in service for more than 40 years.
- Designed new water main and located it on the median.
- Designed new street for tie-in to side streets.
- Coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

### **RR016: B.W. Cooper, Gert Town, Dixon Group C; New Orleans, LA**

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs 9 blocks (3245 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase; and for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

This project was federally funded.



### **RR017 BW Cooper, Gert Town Dixon Group D; New Orleans, LA**

#### *Drainage, Sewer, & Waterline Improvements*

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 12 blocks (4,015 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the

streets, preparation of capital cost estimates and construction documents for the project.

Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

This project was federally funded.



### **Backflow Prevention Services, LLC; New Orleans, LA**

The project involved citywide analysis of to determine the appropriate type of Backflow Prevention and Cross-Connection protection. The project included the following specific tasks:

1. Create the policy and procedure manual explaining the rights and obligations of customers who are connected to SWB water system.
2. Pivotal Engineering worked closely with SWB to evaluate existing water customer data and compliance tracking system.
3. The size of the project included (134,972 metered connections). The result of the contamination risk level for non-residential facilities will be used to create a computer data base that can be accessed by SWB personnel to follow up compliance status of each non-residential water supply customer.

4. Prepare a plumbing packet and provide workshops regarding the BFP installation requirements to customers and plumbing professionals.
5. Pivotal's licensed inspection staff assists SWB to inspect installations and identify potential cross connections and ensure backflow preventer requirements are met in accordance with LDH regulations and IPC standards.

### **PONO BFP Installation; New Orleans, LA**

The project involved the analysis of multiple locations and requirements to determine the appropriate type of protection. Once that was determined the appropriate backflow preventers were selected and located on multiple Port Of New Orleans properties. The scope included domestic water protection as well a fire water protection. In addition, the analysis of the domestic water supply and protection for all shipping that is supplied water by the Port Of New Orleans was performed. Pressure and flow testing was monitored and used to determine the baseline conditions available and to identify areas where additional pressure would be required for proper operation and additionally to select the appropriate booster pump packages to meet these requirements.

### **East Bank Water Treatment Plant Upgrade; Jefferson Parish, LA**

Pivotal Engineering LLC designed the full Power & Instrumentation systems for the Main East Bank Water Treatment Plant in Jefferson Parish, Louisiana. The new facility is designed for a capacity of 40 MGD with the ability to expand to 60 MGD in the future.

The plant (P4) is a large industrial facility and consisted of the below process areas:

1. Flash Mix (Area 10)
2. Precipitators (Area 11)
3. Operations Center (Area 13)
4. Filters (Area 30)
5. P4 Pump Room (Area 50)

6. Remote PS (Area 51)
7. Bulk Chemical Storage (Area 60)
8. Chemical Feed (Area 61)
9. Hydrofluosilicic (HFA) Acid (Area 67)
10. Waste Washwater Equalization (Area 70)

The main scope consisted of providing a triple redundancy 13.8KV, feeders to the main 1200 A, 13.8 KV, 500MVA Gear which in turn provides 13.8KV power to (2) double ended unit substations. A bank of Generators also provides emergency power during the loss of main power as another back up. Pivotal main design efforts also included:

- a. Design the controls logic ladder diagrams for all of the local and remote operations of the plant as per the P&IDs.
- b. Design all the duct bank sections and manhole schedules required to bring the MV feeders from the Main 13.8kV building to the two (2) 13.8kV-480V double-ended unit substations.
- c. Design 5000 A, 3P, MCCs with Main/Tie/Main and Kirk Key Interlocks.
- d. Design of Low Voltage (LV) duct bank from Generator-backed switchgear
- e. Design of Miscellaneous Site Work (site lighting, valve vaults, flowmeter vaults, etc.)
- f. Design the main indoor service rated switchgear, lighting panel boards, step down transformers, and auxiliary panels, Pump Room VFD's, MCC's and PLC's
- g. Design of Single Line Diagrams for Main P4 Process Facility (Areas 10 (Flash Mix), 11 (Precipitators), 13 (Clearwell, Gallery, Operations), 30 (Filters), 50 (P4 Pump Room), 60 (Chemical Feed), and 68 (Chemical Storage)).
- h. Design of Equipment Elevations for Main P4 Process Facility
- i. Design of Control Schematics for equipment in the Main P4 Process Facility (Areas 10 (Flash Mix), 11 (Precipitators), 13 (Clearwell, Gallery, Operations), 30 (Filters), 50 (P4 Pump Room), 60 (Chemical Feed), and 68 (Chemical Storage)).

- j. Design of all low voltage (120/208 and/or 120/240) step-down general-purpose dry-type transformers, panelboards and their corresponding schedules for the Main P4 Process Facility (Areas 10 (Flash Mix), 11 (Precipitators), 13 (Clearwell, Gallery, Operations), 30 (Filters), 50 (P4 Pump Room), 60 (Chemical Feed), and 68 (Chemical Storage)).

Pivotal provided over 250 electrical sheets for this facility due to its complexity.

### **St Brides Water Treatment Plant, Virginia Department of Corrections; Chesapeake, VA**

Project #1 (2004): Scope of work included: preliminary engineering, final design of water treatment facility, a new 500 gpm well, modifications to an existing 600 gpm Well, 500,000-gallon elevated storage tank, SCADA system and sequence of operation, construction administration and start-up and O&M Manual. Key Pivotal staff were involved with construction period services, SCADA and sequence of operation, Start-up and prepared O&M Manual for the Plant.

After operating for three years, the St. Brides WTP did not satisfactorily remove iron and manganese. Pivotal staff investigated the problem and conducted several bench-scale tests determine operational requirements to improve the efficiency of the greensand. He identified that the poor removal efficiency was cause by the presence of very high concentration of dissolved organics up to 11 ppm in the groundwater. A hydro-geological study by Apex Inc confirmed that the wells were not under the influence of surface water but rather cause of high organics was due to the natural formation of the soils in the area. So, drilling a new well was not an option, as all three existing wells exhibited high levels of dissolved organics than would be expected.

Project # II (2010-2013: Scope for the WTP final design improvements included changing out media to LayneOX® based on pilot study findings and modifying the existing Siemens

greensand filter vessels; adding one (1) reverse osmosis train, an additional well and two well buildings, developing a new SCADA sequence of operation for the WTP and integrating the water treatment and the wastewater treatment plants for view from both the WTP and the wastewater treatment plant.



## **Attachment A**

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### **Licenses**



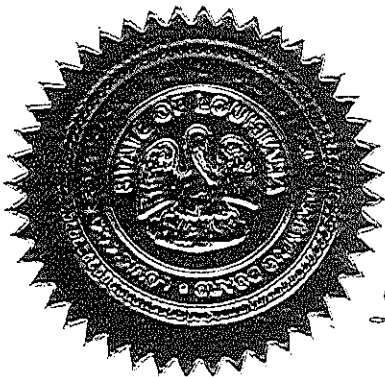
# Louisiana Professional Engineering and Land Surveying Board

*Hereby Certifies that*

Pivotal Engineering LLC

*has complied with the regulation of this Board and is authorized  
to provide or to offer to provide engineering services in the State of  
Louisiana contingent upon payment of the annual renewal fee.*

*Baton Rouge, Louisiana · 12/20/2012*



*License Number 5213*

*Michael J. Davis*  
\_\_\_\_\_  
*Jane E. Bawie* *Chairman*  
\_\_\_\_\_  
*Secretary*



## **Attachment B**

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### **Key Staff Licenses**



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018 , the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Avinash Mehta  
1201 Giuffrias Avenue  
Metairie, LA 70001

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b> 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
	<b>Mr. Avinash Mehta</b>	
License/Certificate Type - Number	Expiration Date	
PE.0035100	03/31/2022	
Status:	Active	

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Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.


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## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 8/12/2021, the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Yoseph Yemane Shifare  
63 Eugenie Court  
New Orleans, Louisiana 70131

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. Yoseph Yemane Shifare</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0042747</b>	<b>03/31/2023</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/21/2022 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Bassam Abdallah Mekari  
1515 Poydras Street, Suite 1875  
New Orleans, Louisiana 70112

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. Bassam Abdallah Mekari</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0031801</b>	<b>09/30/2022</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. James Edward Amodeo  
1511 Dublin Street  
New Orleans, LA 70118

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. James Edward Amodeo</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0036489</b>	<b>03/31/2022</b>	
<b>Status: Active</b>		
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## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/21/2022 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. John Adam Mekari  
438 Highland Trace Drive  
Baton Rouge, Louisiana 70810

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. John Adam Mekari</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0025415</b>	<b>09/30/2023</b>	
<b>Status: Active</b>		
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## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 8/12/2021, the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Tarek Elnaggar  
192 Forest Oaks Drive  
New Orleans, Louisiana 70131

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. Tarek Elnaggar</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0023832</b>	<b>03/31/2023</b>	
<b>Status: Active</b>		
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## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Sundiata Milton Marc  
5607 Baccich Street  
New Orleans, LA 70122

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. Sundiata Milton Marcelin</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0038589</b>	<b>09/30/2022</b>	
<b>Status: Active</b>		
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## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 8/12/2021, the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Bryan Benjamin Smith  
2411 Richland Avenue, Apt. 231  
Metairie, Louisiana 70001

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. Bryan Benjamin Smith</b>		
License/Certificate Type - Number		Expiration Date
<b>PE.0043843</b>		<b>03/31/2022</b>
<b>Status: Active</b>		
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