



JEFFERSON PARISH

SOQ 22-045 Resolution #140204

Woodlake Estates Drainage Improvements



September 15
2022

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BURK-KLEINPETER, INC.

ENGINEERING · PLANNING · ENVIRONMENTAL

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Over 100 years of service

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HENRY M. PICARD, III, PE, PLS

VICE PRESIDENT
DAVID E. BOYD, PE

September 14, 2022

Jefferson Parish Purchasing Department
Ms. Shanna Folse
General Government Building
200 Derbigny Street, Suite 4400
Gretna, LA 70053

RE: SOQ 22-045 Woodlake Estates Drainage Improvements

Ms. Folse:

In response to your request for qualifications, **Burk-Kleinpeter, Inc., BFM Corporation, LLC, Gulf South Engineering and Testing, Inc., and Creative Engineering Group, LLC** is pleased to submit one electronic copy of our qualifications for the above-referenced project.

BKI is a certified small business firm providing full-service, professional engineering and planning consulting services to public and private clients for over 110 years in Louisiana. As presented in this submittal, BKI has completed a diverse range of projects related to planning, designing, evaluating, permitting, implementing and drainage improvement services.

Our Metairie office will serve as the main project office with Henry M. Picard III, PE, PLS, Senior Vice-President of the Civil Engineering Division, as the project manager. He has over 40 years of experience in civil engineering as well as extensive history with Jefferson Parish Projects.

As an established firm committed to client satisfaction, we look forward to the opportunity to assisting the Parish in successful project implementation as outlined in the scope of services. We have a history of successfully completing similar scale projects on time for Jefferson Parish, and we hope to have the opportunity to continue that partnership.

We appreciate this opportunity to submit our qualifications and look forward to working for the Parish again in the future.

Sincerely,

A handwritten signature in blue ink, appearing to read "H M Picard III", is written over a light blue circular stamp.

Henry M. Picard, III, PE, PLS
Senior Vice President



Burk-Kleinpeter, Inc.
TEC Questionnaire



TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ No. 22-045 Woodlake Estates Drainage Improvements - Resolution 140204

B. Firm Name & Address:

BKI BURK-KLEINPETER, INC.

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:

Michael D. Chopin, PE - Principal | President, (504) 343-6254, mchopin@bkiusa.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.

Henry M. Picard, III, PE, PLS - Civil Engineer - (504) 483-6271, hpicard@bkiusa.com

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

| | | |
|--------------------------------------|----------------------------------|-----------------------------------|
| <u>13</u> Administrative | <u>0</u> Estimators | <u>0</u> Specification Writers |
| <u>0</u> Architects (Licensed) | <u>0</u> Geologists | <u>4</u> Structural Engineers |
| <u>0</u> Chemical Engineers | <u>0</u> Geotechnical Engineers | <u>0</u> Graduate Engineers |
| <u>7</u> Civil Engineers | <u>0</u> Interior Designers | <u>1</u> Project Managers |
| <u>2</u> Construction Inspectors | <u>0</u> Landscape Architects | <u>0</u> Clerical |
| <u>0</u> Ecologists | <u>0</u> Land Surveyor | <u>0</u> Grant/Funding Specialist |
| <u>0</u> Electrical Engineers | <u>0</u> Mechanical Engineers | <u>0</u> Sanitary Engineers |
| <u>2</u> Engineer Intern | <u>0</u> Environmental Engineers | <u>2</u> Planners |
| <u>0</u> Professional Land Surveyors | <u>6</u> CADD/GIS | <u>1</u> Designers |
| | | <u>38</u> 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 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. N/A

H. Has the 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 Firm Before (Yes or No): |
|---|------------------------|--------------------------------------|
| 1. Gulf South Engineering & Testing, Inc. 15 Veterans Memorial Blvd. Kenner, LA 70062 | Geotech | Yes |
| 2. BFM Corporation, LLC 15 Veterans Memorial Blvd. Kenner, LA 70062 | Survey | Yes |
| 3. Creative Engineering Group, LLC 201 Highland Park Plaza Covington, LA 70433 | Electrical Engineering | Yes |

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

BKI: 10 Team: N/A

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:

Michael D. Chopin, PE (*Minimum Personnel Requirement No. 1*)
Principal / President

Project Assignment

Principal / QA/QC

Name of Firm with which associated



Years' experience with this Firm:

31

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1991 / Civil Engineering

Active registration: Year first registered/discipline

1996 / PE Civil, State of LA / No. 26797

Other experience and qualifications relevant to the proposed project:

Mr. Chopin is a Principal at BKI. He is in charge of personnel, including schedules, staff, budgets, technical review and account management. He has 26 years of professional engineering experience, and has provided professional consulting focused on a wide range of public works projects. He has served as Project Manager or Project Engineer on numerous drainage studies, hydraulic models and designs, drainage improvement, levees, floodwalls, flood control projects, roadways, and site development. He is also a member of the American Society of Civil Engineers and the Society of American Military Engineers

Mr. Chopin's applicable projects are listed on the following page.

TEC Professional Services Questionnaire

Mr. Chopin has worked on the following applicable projects:

Cousins Pump Station Complex - Floodwalls and PS Expansion - *Plaquemines Parish, LA* - Provided oversight for the development of a design documentation report, plans and specifications, right-of-way drawings, and cost estimates for improvements to floodwalls as well as the addition of 2,000 cfs capacity station that includes two (2) 1000 cfs horizontal pumps with diesel engine drives and concrete discharge tubes at the complex.

Maplewood Area Drainage Improvements - *Harvey, LA* - Principal provided project supervision and subconsultant coordination for the development of construction drawings and specifications for the installation of 9,100 linear feet of storm water culverts, 33 junction boxes, 80 catch basins, and 3,500 square yards of paving. The FEMA HMGP funds were awarded to Jefferson Parish after Hurricane Gustav, and the project would improve drainage in the Maplewood subdivision - which had historically flooded during intense rainfall events. BKI provided preliminary and final engineering design, bidding assistance, construction administration, and resident inspection services.

Bellemeade Area Drainage - *Jefferson Parish, LA* - Provided project oversight and quality control for the development of construction drawings and specifications for the installation of 6,000 linear feet of storm water culverts and 14 junction boxes.

Avenue D Canal Drainage Improvements - *Jefferson Parish, LA* - Provided oversight for the design and construction of subsurface drainage improvements in the King's Grant/Avenue "D" Subdivision on the Westbank of Jefferson Parish. The project included the removal of existing storm drain pipe and existing roadway, and the construction of new concrete curb, pavement, and storm drain pipe.

City of Gretna Downtown Drainage Improvements - *Gretna, LA* - Provided project oversight for the design and engineering of a layered green and grey storm water infrastructure project within the city's downtown area. The project was a CDBG-DR project and part of FEMA's LASAFE program, which addresses community resiliency.

I-10 / I-610 Interchange - Railroad Underpass Pump Station - *New Orleans, LA* - Engineer for the design of the preliminary and final plans for the construction of a new 850 cubic feet per second drainage pumping station designed to reduce flooding on Interstate 10 in New Orleans.

Permanent Canal Closures and Pump Stations (PCCP) Extension of Staff Services - *Belle Chasse, LA* - Project Manager, managed oversight on behalf of the CPRA to review all phases of construction associated with each of three pump station sites.

Ellington Plantation and Magnolia Ridge Drainage Pumping Stations - *St. Charles Parish, LA* - Provided project oversight and QAQC for a new earthen levee system (The St. Charles Parish West Bank Hurricane Protection Levee) to reduce the damages caused by storm surges.

Willowridge Drainage Pumping Station - *St. Charles Parish, LA* - Provided oversight for the design of a new 300 CFS drainage pump station including bar screens, pump station structure, three 100 CFS vertical pumps with electric motors, backup generator and discharge pipes located in the Willowridge Subdivision on the west bank of St. Charles Parish.

Marvin Braud Master Drainage Plan and Drainage Pump Station - *Ascension Parish, LA* - Performed QA/QC and project oversight for pump station improvements and additions, which included a new station with 2,000-cubic feet per second (CFS) of pumping capacity. The new pumping station had a pile-supported intake basin and concrete discharge tubes, a steel-framed superstructure, and two 1,000 CFS pumps with diesel drives and gear reducers. BKI also designed reinforced concrete floodwalls along the banks of the station discharge channel downstream from the facility.

Wardline Road Drainage Improvements - *Hammond, LA* - Providing project oversight for improvements to the system to eliminate backwater flooding from a 10-year design storm. Project encompasses a topographic, drainage structure, and drainage area survey; a hydrologic and hydraulic study; and construction administration services.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|--|
| Name & Title: |
| Henry M. Picard, III, PE, PLS (<i>Minimum Personnel Requirements No. 2</i>) Senior Vice President |
| Project Assignment |
| Project Manager |
| Name of Firm with which associated |
|  |
| Years' experience with this Firm: |
| 32 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 1981 / Civil Engineering |
| Active registration: Year first registered/discipline |
| 1986 / PE Civil, State of LA / No. 22289 1994 / PLS, State of LA / No. 4736 1996 / PE Civil, State of AL / No. 20937 2000 / PE Civil, State of FL / No. 56552 |
| Other experience and qualifications relevant to the proposed project: |
| Mr. Picard is a Vice President in the Civil Engineering Division at BKI. He is in charge of project management, hydraulics and traffic engineering, including schedules, staff, budgets, technical review and account management. He has 32 years of professional engineering experience. He has provided professional consulting focused on a wide range of projects, serving as Project Manager or Project Engineer on numerous roadway, transportation, rail, drainage and flood control, and hydraulic engineering. Mr. Picard holds a Bachelor of Science in Civil Engineering, and is Registered Professional Engineer in the States of Louisiana, Alabama, and Florida. He is also a Registered Professional Land Surveyor in Louisiana. He is also an active member of the American Society of Civil Engineers. and the Society of American Military Engineers. <i>Mr. Picard's applicable projects are listed on the following page.</i> |

TEC Professional Services Questionnaire

Mr. Picard has worked on the following applicable projects:

Maplewood Area Drainage - *Harvey, LA* - Principal provided project supervision and subconsultant coordination for the development of construction drawings and specifications for the installation of 9,100 linear feet of storm water culverts, 33 junction boxes, 80 catch basins, and 3,500 square yards of paving. FEMA Hazard Mitigation Grant Program funds were awarded to Jefferson Parish after Hurricane Gustav, and the project would improve drainage in the Maplewood subdivision, which has historically flooded during intense rainfall events.

25th Street Canal Drainage Improvements (Resiliency District) - *Gretna, LA* - Principal provided QA/QC oversight for the design of alternate storm water runoff routing during high-intensity events. Including existing system analysis, recommended pipe sizes for alternate flow routes when the Heebe Canal stage exceeds water surface elevations, and designing improvements within 25th St. Canal to handle the additional flow to feed the proposed 25th St. drainage pump station. This project included the development of a closed, pump-controlled system for the 2 subdivision that will alleviate flooding during high-intensity rainfalls.

I-10 / I-610 Interchange - Railroad Underpass Pump Station - *New Orleans, LA* - Civil Engineer for the design of the preliminary and final plans for the construction of a new 850 cubic feet per second drainage pumping station designed to reduce flooding on Interstate 10 in New Orleans.

Permanent Canal Closures and Pump Stations (PCCP) Extension of Staff Services - *Belle Chasse, LA* - Provided civil engineering & hydraulics reviews on behalf of the CPRA to review all phases of construction adherence to contract documents for over 70 features of design and construction associated with each of three pump station sites.

Marvin Braud Drainage Pump Station Expansion - *Gonzales, LA* - Responsible for overseeing the development of preliminary and final plans for adding an additional 2,000 CFS capacity to the existing Marvin Braud Drainage Pump Station located in the vicinity of Gonzales, LA in Ascension Parish, including performing a complete hydraulic and hydrologic model study using HEC-HMS and HEC-RAS software, a new metal station housing, relocation of the fuel tanks and silencers.

GIWW Mechanical Services - *Jefferson, Orleans, and Upper Plaquemines Parishes, LA* - Provided project oversight for the technical review and inspection of the Gulf Intracoastal Waterway (GIWW) West Shore Complex construction. This project was 100% funded by the US Army Corps of Engineers as part of the Hurricane Storm Damage Risk Reduction System (HSDRRS) for the Greater New Orleans area. It is a part of the overall West Bank and Vicinity Flood Control System, and serves as a major component of the HSDRRS, providing a 100-year storm level of protection to the residents and businesses located on the west banks of Jefferson, Orleans and Upper Plaquemines Parish.

SLFPA - Lake Borgne Levee District (LBBLD) Drainage Pump Station Nos. 6 & 7 Refurbishment - *St. Bernard Parish, LA* - Oversaw meetings, submittals, inspections, pay applications, reviewed lifting analysis, and responded to questions regarding the structure and soil integrity due to the age of the two (2) pump stations.

Belle Chasse Area Master Drainage Plan - *Belle Chasse, LA* - Provided project management and guidance for the preparation of a hydrologic and hydraulic study.

Bayou St. John Water Management Study Phase I - *New Orleans, LA* - Oversaw invoicing client and subcontractors for water management study in Bayou St. John. The study determined the best engineering and environmental methods to re-introduce native aquatic species into the Bayou St. John watershed.

St James Ascension Storm Surge Flood Protection Project - *St. James and Ascension Parishes, LA* - Supervised and assisted in the feasibility study and design of geometric layout of a flood protection system feasibility study including levees T-walls, pump stations.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|--|
| Name & Title: |
| David E. Boyd, PE (<i>Minimum Personnel Requirement No. 3</i>) Vice President |
| Project Assignment |
| Civil Engineer |
| Name of Firm with which associated |
|  <small>ENGINEERING · PLANNING · ENVIRONMENTAL</small> |
| Years' experience with this Firm: |
| 18 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 2004 / Civil Engineering |
| Active registration: Year first registered/discipline |
| 2010 / PE Civil, State of LA / No. 35510 |
| Other experience and qualifications relevant to the proposed project: |
| <p>Mr. Boyd is a Civil Engineer in BKI's Roadway and Drainage division. He holds a Bachelor's Degree from the University of New Orleans in Civil Engineering. Since 2006, Mr. Boyd has provided BKI's public and private clients with professional consulting engineering services for hydrology and flood control projects. Mr. Boyd is proficient in Hydrologic and Hydraulic modeling using HEC-HMS and HEC-RAS as well as SWMM software. Projects of note include: master drainage plans for Bayou Liberty in St. Tammany Parish, Marvin Braud Watershed and Bayou Conway Master Drainage Plans for Ascension Parish, Louis Armstrong Master Drainage Plan for Jefferson Parish, Bayou St. John Master Drainage Plan for the Orleans Levee District and the St. James East Bank Master Drainage Plan. These master drainage plans analyzed existing conditions, future conditions as well as drainage improvements to alleviate flooding.</p> <p><i>Mr. Boyd's applicable projects are listed on the following page.</i></p> |

TEC Professional Services Questionnaire

Mr. Boyd has worked on the following applicable projects:

Maplewood Area Drainage Improvements - *Harvey, LA* - Project Engineer for the development of construction drawings and specifications for the installation of 9,100 linear feet of storm water culverts, 33 junction boxes, 80 catch basins, and 3,500 square yards of paving. Hazard Mitigation Grant Program funds were awarded to Jefferson Parish after Hurricane Gustav, and the project improves drainage in the Maplewood subdivision, which had historically flooded during intense rainfall events.

Breaux Ditch Improvements - *Jefferson Parish, LA* - Project Manager provided contract and client management, design oversight, and quality control for the replacement of the existing ditch with a 4'x8' reinforced concrete flume to provide improved maintenance and stability.

Gretna Downtown Drainage Improvements - *Gretna, LA* - Project Manager provided oversight, quality control, client coordination, and civil design oversight for the design and engineering of a layered green and grey storm water infrastructure project within the downtown area. To alleviate localized storm water flooding issues, the project used green infrastructure improvements along the public right-of-way to meet multiple demands that included: storm water management, continued revitalization in the downtown area, and improved public right-of-way safety and accessibility. The project was part of FEMA's LASAFE program, which addresses community resiliency.

25th Street Canal Drainage Improvements Project (Resiliency District) - *Gretna, LA* - Project Manager responsible for coordinating overall project design tasks, schedules, and budgets on this project for Gretna to mitigate flooding from the Heebe Canal. Using a combination of state funding, CDBG funds & FEMA Flood Mitigation Grant Dollars Gretna was able to not only lessen runoff and required pumping capacity but also to provide recreational aesthetic amenities for the neighborhood residents.

Louis Armstrong New Orleans International Airport (LANOIA) Master Drainage Plan - *Kenner, LA* - Civil Engineer performed hydrologic and hydraulic analysis of open-closed channel drainage network of the Louis Armstrong New Orleans International Airport, using HEC-HMS and HEC-RAS unsteady state model, recommended drainage infrastructure improvements with cost estimates and created a master drainage manual for Airport facility managers to meet all Federal Aviation Administration and Jefferson Parish requirements.

Willowridge Pumping Station - *St. Charles Parish, LA* - Engineer for a new 300 CFS drainage pump station including bar screens, pump station structure, three 100 CFS vertical pumps with electric motors, backup generator and discharge pipes located in the Willowridge Subdivision on the west bank of St. Charles Parish.

Ellington Plantation and Magnolia Ridge Drainage Pumping Stations - *St. Charles Parish, LA* - Hydraulic engineer for a new earthen levee system (The St. Charles Parish West Bank Hurricane Protection Levee) to reduce the damages caused by storm surges.

Permanent Canal Closures and Pump Stations (PCCP) Extension of Staff Services - *Belle Chasse, LA* - Provided civil engineering on behalf of the CPRA to review all phases of construction adherence to contract documents for over 70 features of design and construction associated with each of three pump station sites.

Belle Chasse Area Master Drainage Plan - *Belle Chasse, LA* - Provided civil engineering for the preparation of a hydrologic and hydraulic study.

Marvin Braud Drainage Pump Station Expansion - *Gonzales, LA* - Performed hydrologic and hydraulic analysis of open channel drainage network in Ascension Parish, LA, using HEC HMS and HEC RAS unsteady state model to evaluate future runoff based upon projected land usages and pump station expansion requirements to drain Ascension Parish in the future.

Ascension Storm Surge Protection - *Ascension Parish, LA* - As Project Manager, provided QA/QC for the overall project. Attended coordination meetings and provided monthly updates to client.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|---|
| Name & Title: |
| René A. Chopin, IV, PE (<i>Minimum Personnel Requirement No. 3</i>) <i>Civil Engineer</i> |
| Project Assignment |
| Civil and Hydraulic Engineering |
| Name of Firm with which associated |
|  The logo for BKI Burk-Kleinpeter, Inc. features the letters 'BKI' in a large, bold, blue font. To the right of 'BKI', the company name 'BURK-KLEINPETER, INC.' is written in a smaller, blue, sans-serif font. Below the company name, the words 'ENGINEERING', 'PLANNING', and 'ENVIRONMENTAL' are listed in a very small, blue, sans-serif font, separated by small dots. |
| Years' experience with this Firm: |
| 9 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 2013 / Civil Engineering |
| Active registration: Year first registered/discipline |
| 2018 / PE Civil, State of LA / No. 42349 |
| Other experience and qualifications relevant to the proposed project: |
| <p>Mr. Chopin is a Registered Professional Civil Engineer in Louisiana with a focus on Hydraulic and Hydrologic Engineering. His experience includes the use of the Department of Transportation and Development HYDR 2009 and HEC-RAS programs to calculate drainage flows and pipe capacities. He has worked on various projects such as drainage improvement projects, master drainage plans, levee and stormwater prevention projects. His responsibilities have included performing engineering calculations, site layout, plan and specification preparation, estimating project costs, and construction administration. He is a Member of the American Society of Civil Engineers and the Society of Military Engineers as well as holding a TWIC card.</p> <p><i>Mr. Chopin's applicable projects are listed on the following page.</i></p> |

TEC Professional Services Questionnaire

Mr. Chopin has worked on the following Civil Engineering projects:

25th Street Canal Drainage Improvements - *Gretna, LA* - Providing Hydraulic and Hydrologic engineering for alternate routing of storm water runoff during high-intensity events for the 25th Street Canal subdivisions. This includes analyzing the existing system, providing recommended pipe sizes for alternate flow routes when the Heebe Canal stage exceeds water surface elevations that would close flap gates to be installed on the current outfall pipes, and designing improvements within 25th Street Canal to handle the additional flow to feed the proposed 25th Street drainage pump station. In working with our Mechanical Department, we have developed a closed, pump-controlled system for the 25th Street subdivision that will alleviate flooding during high-intensity rainfalls.

St. James Parish Master Drainage Plan - *St. James Parish, LA* - Ran calculations to check for deficient culvert capacities throughout St. James Parish. Input flows were calculated using the Rational Method and culverts evaluated based on headwater using the DOTD Hydr2009 and/or FHWA HY-8 programs. The results were tabulated in a report that included maps showing the location, condition, and status of the culverts. Deficient culverts were given a recommended size and material for replacement. This report was submitted to St. James Parish to be used as a master plan for driveway culvert replacements in the future. The report was also used by St. James Parish for submittal to GHOSEP seeking grants to assist in the construction of these new culverts. The culvert improvements would offer a total reduction in headwater throughout the Parish by removing restrictive flow conditions. The improvements would assist the Parish in exfiltrating storm water from localized rain events preventing flooding of homes and businesses.

Oak Park Flood Mitigation Project - *New Orleans, LA* - Provided civil engineering for the preparation of a hydrologic and hydraulic study.

Mandeville By Pass - *Mandeville, LA* - Provided hydraulic engineering for the preparation of line and grade studies. Permits, preliminary design, final design, bidding assistance, construction administration, and resident inspection are optional phases.

St. James Interior Drainage (Matherne, David, Woods Canal) - *St. James Parish, LA* - Reviewed and prepared final plans for the improvement of lateral ditches and culverts along LA 3125. Responsibilities included performing Rational Method calculations for sizing culverts and calculating quantities for ditch improvements and outfall armoring. Carried out construction administration responsibilities including preparing bid documents, tabulating bids, performing periodic site visits, and generating closeout documents.

Ascension Storm Surge Protection - *Ascension Parish, LA* - Provided hydraulic design and analyses as well as assembled plans, specifications, and cost estimates for the project. Performed construction administration and closeout duties for this project.

Lake Charles Harbor & Terminal District Engineering & Environmental Services - *Lake Charles, LA* - Provided civil engineering for the preparation of a hydraulic and environmental study.

St James Ascension Storm Surge Flood Protection Project - *St. James and Ascension Parishes, LA* - Assisted in the feasibility study and conceptual design of geometric layout of a flood protection system feasibility study including levees T-walls, pump stations.

West Shore Levee & Floodwalls - *St. John Parish, LA* - Assisted in calculating quantities for the project to develop cost estimates. Also checked the levee cross-section drawings.

LaPlace Peavine Boat Launch Improvements - *LaPlace, LA* - Provided civil engineering for the preparation of a harbor dredging and boat launch pier extension improvement project.

CN/IC Railroad Master Service Agreement - *New Orleans, LA* - Civil Engineering Designer: Provided civil engineering for the preparation of permits, feasibility studies, preliminary design, final design, bidding assistance, construction administration, and resident inspection.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Timothy Koenig, PE (Minimum Personnel Requirement No. 3)
Associate - Civil Engineer

Project Assignment

Civil Engineer

Name of Firm with which associated



Years' experience with this Firm:

20

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1998 / Microbiology
Bachelor of Science / 2004 / Civil Engineering

Active registration: Year first registered/discipline

2009 / PE Civil, State of LA / No. 35079

Other experience and qualifications relevant to the proposed project:

Mr. Koenig is an Associate Civil Engineer at BKI and received Bachelor of Science in Civil Engineering from the University of New Orleans. Since joining BKI in 2004, Mr. Koenig has provided professional consulting services to public and private clients throughout the Gulf South region. His areas of expertise include water, rail, structural, and industrial design. Most notably, Mr. Koenig has been an integral part of Hurricane Katrina recovery at the Port of New Orleans. He has provided these services for a wide range of projects, serving as Project Engineer on numerous water; sewer; drainage; and roadway and transportation projects. He has escort privileges and TWIC card.

Mr. Koenig's applicable projects are listed on the following page.

TEC Professional Services Questionnaire

Mr. Koenig has worked on the following applicable projects:

25th Street Drainage Improvements Project - *Gretna, LA* - Prepared preliminary plans that included site access plans, staging areas, roadway improvements, and canal improvements.

Wardline Road Drainage Improvements - *Hammond, LA* - Civil Engineer provided design and plan preparation services for drainage improvements that aimed to reduce or eliminate flooding in the Wardline Road area from a moderate (10-year frequency) rainfall event. BKI's services included surveys along Wardline Road, a hydraulic and hydrologic study, road design, storm drainage, and construction administration services.

St. James Parish Master Drainage Plan, Culvert Analysis, and Design Program - *St. James Parish, LA* - Provided civil engineering services for the preparation of the Master Drainage Plan to alleviate flooding in the existing subdivisions and agricultural lands through development of better outfalls. The study was performed utilizing the HEC-HMS and HEC-RAS modeling software to determine the potential of improving the existing canals or the need for a new outfall. The Master Drainage Plan resulted in BKI's participation in an Eastbank-wide culvert analysis and design program partly funded by the LADOTD Statewide Flood Control Program and GOHSEP grants.

SLFPA-E Levee Certification - *Southeast LA* - Provided civil engineering for the preparation of a hydrologic and hydraulic study and interior drainage phases of project.

Plaquemines Parish Katrina Restoration-Venice Harbor Dredging - *Plaquemines Parish, LA* - Prepared construction documents consisting of plans and specifications.

Port of New Orleans Milan Terminal Upland Yard - *New Orleans, LA* - Provided civil engineering for the preparation of a paving alternatives study.

Hurricane Katrina Damage Assessments & Recovery Plan for the Port of New Orleans - *New Orleans, LA* - Preliminary structural engineering assessments of damage to the Port of New Orleans as a result of Hurricane Katrina and Hurricane Rita. Services included survey of structural, mechanical and electrical systems for over 39 structures, cargo marshalling yards and service areas covering 9 linear miles of wharves and ports for damage, fender pile inspection, preliminary cost estimates and recommendations for repairs to restore the Port to normal operations.

LA 23 NOGC Railway Relocation PE/NEPA Project - *Jefferson/Plaquemines Parishes, LA* - Project engineer assisting in the preparation of rail/roadway intersection concepts.

Northrop Grumman Shipbuilding Unit Construction Hall - *Pascagoula, MS* - Checked structural drawings, quantity verification of steel, preparation of design calculations and specification preparation.

Arabi Terminal Dock No. 1 Dry Bulk Storage & Transfer Facility Phase I - *Arabi, LA* - Assisted with specification assembly and quantity verification.

St. Bernard Port - Arabi Terminal Entry Gate, Scales & Road - *Arabi, LA* - Assisted with specification assembly, quantity verification and checked design.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|---|
| Name & Title: |
| Daniel S. Caluda, Jr. <i>Associate, Mechanical Designer</i> |
| Project Assignment |
| Mechanical Design |
| Name of Firm with which associated |
|  ENGINEERING PLANNING ENVIRONMENTAL |
| Years' experience with this Firm: |
| 35 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 1981 / Petroleum Engineering |
| Active registration: Year first registered/discipline |
| N/A |
| Other experience and qualifications relevant to the proposed project: |
| <p>Mr. Caluda is an Associate with major technical responsibility in the Mechanical Engineering Division of BKI. Mr. Caluda's professional experience includes drainage and pump station systems, lift station design and rehabilitation, sewer systems, HVAC, plumbing, sprinklers, and mechanical/industrial systems. Mr. Caluda's experience with the design of drainage pump stations and wastewater treatment plant pump stations dates to 1987. He has designed new pump stations and pump station improvements with capacities ranging from 150 CFS to 2,000 CFS. Mr. Caluda has provided mechanical design services for dozens of pump stations in the Greater New Orleans region and has overseen design and construction of two of the largest pump stations in the world.</p> <p><i>Mr. Caluda's applicable projects are listed on the following page.</i></p> |

TEC Professional Services Questionnaire

Mr. Caluda has worked on the following applicable projects:

Cousins Drainage Pump Station Expansion - *Jefferson Parish, LA* - Design of a 2,000-cfs pump station expansion, including 2-12 foot diameter horizontal pumps, engines, air suppression, and all other necessary appurtenances.

Taft Park Drainage Pumping Station - *Metairie, LA* - Provided mechanical design for the drainage pump station, including distribution, controls, and a standby generator. This was a Hazard Mitigation Grant Program funded project.

25th Street Canal Drainage Improvements Project (Resiliency District) - *Gretna, LA* - Completed the mechanical design for the alternate routing of storm water runoff during high-intensity rain events and mitigate flooding from the Heebe Canal. Using a combination of state funding, CDBG funds & FEMA Flood Mitigation Grant Dollars Gretna was able to not only lessen runoff and required pumping capacity but also to provide recreational aesthetic amenities for the neighborhood residents.

I-10 / I-610 Interchange - Railroad Underpass Pump Station - *New Orleans, LA* - Mechanical Engineer designed the 850 CFS pump station at I-10 in the most congested area of metropolitan New Orleans, including the design of three 72" and one 48" discharge force main pipes across the 17th Street Canal Floodwall (2,400 LF), a two cell 8'x10' concrete box culvert intake canal to the intake basin along with trenchless construction of an 84" gravity main under I-10.

Ellington Plantation and Magnolia Ridge Drainage Pumping Stations - *St. Charles Parish, LA* - Provide technical guidance and review for the development of the drainage pumping station pump suction and discharge models and pump model in order to determine a method to eliminate pump loss of priming problems.

Willowridge Drainage Pumping Stations - *St. Charles Parish, LA* - Mechanical design for a new 300 CFS drainage pump station including bar screens, pump station structure, three 100 CFS vertical pumps with electric motors, backup generator and discharge pipes located in the Willowridge Subdivision on the west bank of St. Charles Parish.

Gulf Intracoastal Waterway West - Flood Control Structure Construction Management - *Belle Chasse, LA* - Provided technical assistance on behalf of the local sponsor, the CPRA to review all phases of construction adherence to contract documents.

Permanent Canal Closures and Pump Stations (PCCP) Extension of Staff Services - *Belle Chasse, LA* - Provided mechanical design on behalf of the CPRA to review all phases of construction adherence to contract documents for over 70 features of design and construction associated with each of three pump station sites.

Marvin Braud Drainage Pump Station Expansion - *Gonzales, LA* - Mechanical Designer for pump station improvements and additions, which included a new station with 2,000-cubic feet per second (CFS) of pumping capacity. The new pumping station had a pile-supported intake basin and concrete discharge tubes, a steel-framed superstructure, and two 1,000 CFS pumps with diesel drives and gear reducers.

Canal St Canal Dps Generator - *Jefferson Parish, LA* - Design of emergency generator to power electric pump drives. Preliminary and final plans and specifications and construction administration.

Destrahan Eastbank Drainage Improvements - *St Charles Parish, LA* - Design of a 500 cfs addition to Destrahan Drainage Pump Station No. 2 and for a 54 cfs addition to Dianne Place Drainage Pump Station on the East Bank of St. Charles Parish.

Schneider Canal Drainage Pumping Station - *Slidell, LA* - Mechanical design of a drainage pumping station, consisting of 6 submersible pumps with a capacity of 150 cfs each, levees and gravity flow structure with backflow gates.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|--|
| Name & Title: |
| René A. Chopin, III, PE (<i>Minimum Personnel Requirement No. 3</i>) <i>Senior Vice President / Chief Engineer</i> |
| Project Assignment |
| Structural Engineer |
| Name of Firm with which associated |
|  |
| Years' experience with this Firm: |
| 34 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 1988 / Civil Engineering |
| Active registration: Year first registered/discipline |
| 1993 / PE Civil, State of LA / No.25174 2001 / PE Civil, State of TX / No.87547 2001 / PE Civil, State of FL / No.56402 2001 / PE Civil, State of MS / No.15600 2018 / PE Civil, State of AL / No.37326 |
| Other experience and qualifications relevant to the proposed project: |
| <p>Mr. Chopin is a Senior Vice President/Chief Engineer at BKI, in charge of project production, project management, and staff supervision. He has provided professional consulting focused on a wide range of drainage system, flood protection, and transportation designs, serving as Project Manager or Project Engineer on numerous drainage system, bridge, roadway, dock, wharf, structural, and flood protection projects. Mr. Chopin's projects have garnered awards and commendations from the American Concrete Institute Louisiana Chapter and the National Partnership for Highway Quality. He is also a member of the American Society of Civil Engineers and the American Concrete Institute of which he is Past President of the Louisiana Chapter.</p> <p><i>Mr. Chopin's applicable projects are listed on the following page.</i></p> |

TEC Professional Services Questionnaire

Mr. Chopin has worked on the following applicable projects:

Cousins Pump Station Complex Floodwalls and P.S. Expansion - *Plaquemines Parish, LA* - Provided structural engineering design for the development of a design documentation report, plans and specifications, right-of-way drawings, and cost estimates for improvements to floodwalls at the complex located on the West Bank River levee of the Mississippi River in Plaquemines Parish, LA.

25th Street Canal Drainage Improvements Project (Resiliency District) - *Gretna, LA* - Principal provided QA/QC oversight for the design of alternate storm water runoff routing during high-intensity events. Including existing system analysis, recommended pipe sizes for alternate flow routes when the Heebe Canal stage exceeds water surface elevations, and designing improvements within 25th St. Canal to handle the additional flow to feed the proposed 25th St. drainage pump station. This project included the development of a closed, pump controlled system for the 2 subdivision that will alleviate flooding during high-intensity rainfalls.

I-10 / I-610 Interchange - Railroad Underpass Pump Station - *New Orleans, LA* - Project Manager for the rehabilitation of I-10/I-610 Interchange from the RR underpass to the Tulane Ave Interchange, including addition of noise walls and new 850-cfs pump station. Geometric and structural design of column bents and retaining walls Project Manager for incorporating the pumping station into plans.

Ellington Plantation and Magnolia Ridge Drainage Pumping Stations - *St. Charles Parish, LA* - Structural Engineer for a new earthen levee system (The St. Charles Parish West Bank Hurricane Protection Levee) to reduce the damages caused by storm surges.

Willowridge Drainage Pumping Station - *St. Charles Parish, LA* - Structural engineer for the design of a new 300 CFS drainage pump station including bar screens, pump station structure, three 100 CFS vertical pumps with electric motors, backup generator and discharge pipes located in the Willowridge Subdivision on the west bank of St. Charles Parish.

Jefferson Ave II Sela 2 Canal #4179 - *New Orleans, LA* - BKI designed the construction of a 8 foot x 14 foot reinforced concrete box culvert, approximately 3,600 feet long. Existing drain lines were tied into the new concrete culvert. The canal improvements required the temporary relocation of the streetcar tracks on St. Charles Avenue as well as numerous other subsurface utility relocations. This project was assigned by the N.O. Sewerage and Water Board under the USACE Southeast Louisiana Urban Flood Control Program.

Lions Water Treatment Plant Pump Station Intake Project - *St. John the Baptist Parish, LA* - Provided structural engineering for the improvement of the pumping capacity and the ability to pump during low water levels in the Mississippi River for the Old Raw Water Pump Station located at the Lions WTP.

Alabo Street Terminal Improvements - *New Orleans, LA* - Prepare plans, specifications and estimates for upgrades to the Alabo Wharf Terminal on the Mississippi River for the Port of New Orleans. The upgrades will allow berthing two ships at the existing terminal and the entire facility is designed to meet current IBC Code including 130 mph wind speed for the transit shed. Scope of work includes new wharf extensions, repairs to the transit shed and repairs to the existing railroad services from NSRR to the terminal.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|--|
| Name & Title: |
| Rebecca J. Chopin, PE (Minimum Personnel Requirement No. 3) <i>Structural Engineer</i> |
| Project Assignment |
| <i>Structural Engineer</i> |
| Name of Firm with which associated |
|  |
| Years' experience with this Firm: |
| 9 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 2013 / Civil Engineering |
| Active registration: Year first registered/discipline |
| 2017 / PE Civil, State of LA / No. 41841 2017 / PE Civil, State of MS / No. 28568 2017 / PE Civil, State of AL / No. 36923 |
| Other experience and qualifications relevant to the proposed project: |
| <p>Ms. Chopin is an Associate Civil Engineer with a strong structural engineering background. She is a Registered Professional Engineer in Louisiana, Mississippi, and Alabama with 8 years project experience focused on bridge design, inspection, and rating in accordance with Load Resistance Factor Rating (LRFR) and an emphasis on LADOTD standards. She is proficient in LEAP Bridge Concrete, Mathcad, and MicroStation. Typical responsibilities include managing plan production on large scale roadway and bridge projects, preparing construction documents, leading CAD technicians and engineers, obtaining DOTD permits, creating cost estimates and bid specifications, generating bid tabulations, utility coordination, and construction administration. Ms. Chopin is an active member of the American Concrete Institute and serves as a past president in Louisiana (2019). Ms. Chopin holds Louisiana ATSSA Traffic Control Supervisor and Traffic Control Technician certifications.</p> <p><i>Ms. Chopin's applicable projects are listed on the following page.</i></p> |

Ms. Chopin has worked on the following applicable projects:

Causeway Blvd -Earhart Expy Interchange - *Jefferson Parish, LA* - Responsibilities included completing a full inspection of existing bridge column bents, and determining load carrying capacities in accordance with LRFR. Responsibilities also include the structural design of the new ramps. Designed multiple foundations, columns, and bent caps, as well as pile bents, bearing pads, and the concrete decks. In addition, responsibilities include working with cad techs in plan development on sheets such as structural details, General Bridge Plans, Superelevation Diagrams, Foundations Layouts and Framing Plans.

Williams Blvd. Sidewalk Improvements - *Kenner, LA* - The purpose of this project was pedestrian improvements along Williams Blvd, including the addition of a new sidewalk with ADA ramps, as well as signalized pedestrian crossings. Responsible for laying out the new sidewalk and creating the plan set, computing quantities, completing cost estimates, writing technical specifications, applying for DOTD permits, and corresponding with the City of Kenner, Contractor, and others. Saw project through the Construction Administration, to its completion.

LA 466 / 5th Street Improvements - *Gretna, LA* - Structural Engineer assisting the lead designer in the preparation of roadway plans and roadway drainage design for streetscape improvements to the 5th Street corridor between Richard Street and Franklin Avenue. The focus of the project is to provide maximum safety and accessibility for bicyclists and pedestrians within the existing right of way through a busy section of 5th Street in Gretna.

Peter's Road Bridge & Extension - *Belle Chasse, LA* - Phase II consists of two bridges that cross over Bayou Barataria. Combined, the bridges measure 660' in length, and consist of 37 slab spans. Responsible for the bridge design in accordance with LADOTD and AASHTO codes and standards, including the design of the concrete slab spans and pile bents. Phase III is a single, 2-lane high rise bridge that consists of 61 spans, measures 5,411' in length, and is designed to achieve a minimum 100' clearance over the GIWW. Responsible for bridge design, including the foundation design, column design, and cap design for single column bents, as well as the design of pile bents. Responsibilities for both phases also included working with CAD techs on plan development for the structural detail sheets, General Bridge Plans, Superelevation Diagrams, and Foundation Layout sheets, as well as calculating bridge elevations and quantities.

LA 1 Toll Facilities - *Lafourche Parish, LA* - Inspected LA 1 striping, signing, signals, roadway, drainage, and the parking lot of the LA 1 Customer Service Center for annual inspections FY 2014 and FY 2016.

New Anna Street Sewer Lift Station - *Slidell, LA* - Responsible for leading the structural design for the replacement of an aging, inaccessible pump station. Specific tasks included writing a design criteria, designing the concrete including the new wet well foundation, and general oversight on the development of the bid documents. The new station will feature submersible pumps with variable frequency drives that can be pulled to grade through an access hatch in the top slab with an above grade steel platform for access to the electrical controls. Provisions will be in place for connecting an emergency generator.

New Cardinal Street Sewer Lift Station - *Slidell, LA* - Tasked with leading the structural design and development of the bid documents for the rehabilitation of an aging sewer lift station. Responsibilities included the design of a new slab on grade as well as an electrical equipment rack. Provisions will be in place for connecting an emergency generator.

Plaquemines Parish Sheriff's Shooting Range Electrical Platform - *Plaquemines Parish, LA* - Responsible for leading the structural design for a pile supported electrical platform. The 16'-0" tall, 355 SF platform included the design of a pile foundation, concrete grade beams, structural steel, and metal stairs. Plan/profile, sections, details, and specifications were also included in this design.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Farhad "Fred" Morgharrebi, PE (Minimum Personnel Requirement No. 3)
Structural Engineer

Project Assignment

Structural Engineer

Name of Firm with which associated



Years' experience with this Firm:

1

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1983 / Civil Engineering

Active registration: Year first registered/discipline

1998 / PE Civil, State of LA / No. 27984

Other experience and qualifications relevant to the proposed project:

Mr. Mogharrebi is a Structural Engineer with over 24 years of engineering experience with a focus on USACE flood control projects, water works, pumping stations, port and airport projects as well as other civil/structural projects. A registered Professional Engineer in Louisiana since 1998, Mr. Mogharrebi received his Bachelor of Science in Civil Engineering from Louisiana State University and is a member of the Louisiana Engineering Society.

Mr. Mogharrebi's applicable projects are listed on the following page.

Mr. Mogharrebi has worked on the applicable projects:

25th Street Canal Drainage Improvements - *Gretna, LA* - Provided structural design services for over 2000 feet of sheet pile wall which was installed to secure the bank and allow for flap gate installation. In order to manifold the drainage system and force the runoff to the pump station over 5400 feet of new drainage pipe was installed. Green Infrastructure techniques such as Gabion retaining walls, bioswales and riparian plantings were used along the upstream portions of the 25th Street Canal to not only lessen runoff and required pumping capacity but also to provide recreational aesthetic amenities for the neighborhood residents.

Cheniere Water Storage Tank - *Grand Isle, LA* – Structural Engineer for the design of a 1,000,000 gallon ground storage tank as well as provided structural design for an elevated pump house building and control room.

Rosethorne Sewage Treatment Plant - *Jefferson Parish, LA* - Provided structural engineering services including conducting ITR and making applicable revisions to structural portions of plans, specifications, and cost estimate for the final IFC package on a 0.5 MGD Wastewater Treatment Plant. Currently providing engineering support during construction to address all RFIs and related project submittals.

St. Charles Westbank Levee - *St. Charles Parish, LA* - Structural Engineer on multiple project tasks assigned under this contract such as USACE WBV-74 for decennial de-watering, inspections, and repairs requiring plans and specifications for structural inspections including fracture-critical members (sector gate including control house, needles, and bulkheads; sluice gates including stoplogs; dolphins and guidewalls structures - including timber piles); Cousins Pumping Station swing gate monolith (assisted in FEL effort and related cost estimate of structural portion of the task); and New Bayou Gauche Pumping Station (structural design of new concrete monolith and piling support mechanical barrier screens for trash and debris removal, sheetpile retaining walls, pre-cast concrete access bridge, piling, and approach slabs).

Lafitte Area independent Levee District Tidal Levee Protection - *Lafitte, LA* - Lead structural designer of the Lafitte/Paillet Tidal Protection project. Design elements included 5 floodgates, sheet pile bulkhead wall and pump station discharge tube extension and supports.

Ascension Storm Surge Protection - *Ascension Parish, LA* - Providing structural pump station modification plans, specifications, and cost estimates for increasing the capacity of the Sorrento Pump Station. Providing structural design, plans, specifications, and cost estimates for 5 floodgates along the levee alignment. BKL will provided construction administration and closeout services for this project.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|---|
| Name & Title: |
| Rene M. Poole, EI <i>Civil Engineer Intern</i> |
| Project Assignment |
| <i>Civil Engineer Intern</i> |
| Name of Firm with which associated |
|  |
| Years' experience with this Firm: |
| 3 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science / 2019 / Civil and Environmental Engineering |
| Active registration: Year first registered/discipline |
| 2019 / EI Civil, State of LA / No. 34097 |
| Other experience and qualifications relevant to the proposed project: |
| <p>Ms. Poole graduated in 2019 with a degree in Civil and Environmental Engineering. She is proficient in MicroStation V8, AutoCAD 2021, HEC-RAS, and HYDR-WIN. Ms. Poole serves as Director and Recreation Committee Chair of the American Concrete Institute, Louisiana Chapter, and is a member of the American Public Works Association. She served as President of the Society of Women Engineers' student chapter, team facilitator of the senior capstone design project, and conference chair of both the ASCE and ACI student chapter. At UNO, her previous work experience includes serving as an engineering tutor to students and as an engineering intern at BLD Services in Kenner, where she worked for three years assisting project managers and engineers on several city sewer, drainage, water maintenance, and capital improvement projects.</p> <p><i>Ms. Poole's applicable projects are listed on the following page.</i></p> |

TEC Professional Services Questionnaire

Ms. Poole has worked on the following applicable projects:

Breaux Ditch Improvements - *Jefferson Parish, LA* - Updated the cost estimate and answered contractor questions regarding design and specifications. Handled design and specification changes; created all necessary addenda and contract documents; and handled bidding process and construction administration including reviewing inspector reports and documents from the contractor, holding progress meetings, and overall monitoring of the project's progress from the consulting engineer's position.

City of Gretna Downtown Drainage Improvements - *Gretna, LA* - Providing civil design services and drainage calculations for the preparation of line and grade studies. Preliminary plans included the preparation of typical sections, plan/profile sheets, existing and design drainage maps, geometric layouts, sequence of construction, traffic detour plans, and cross sections. Answered all contractor questions regarding design and specifications. Handled design and specification changes; created all necessary addenda and contract documents; and handled bidding process; as well as construction administration duty including reviewing inspector reports and documents from the contractor; holding progress meetings; and overall monitoring of the project's progress from the consulting engineer's position.

25th Street Canal Drainage Improvements Project - *Gretna, LA* - Analyzed the existing drainage system throughout the entire neighborhood to determine where to add equalizer pipes, how and where to reroute the flow towards the propose pump station in a flooding event, and how to overall improve the drainage system. Began preliminary drainage design and completed a conceptual submittal of our preliminary plans for FEMA to review.

Rural Bridge Replacement Initiative projects Phases I and II - *Multiple Parishes, LA* - Completed the hydrologic, hydraulic and scour analyses for this project. Found the drainage area, hydrologic length, slope, and soil classification to calculate the existing channel's flow. Cut cross sections of the channel. Created a HEC-RAS model to analyze the existing structure and channel. Worked with the roadway team to determine a suitable low chord for the proposed bridge. Created a new HEC-RAS model for the proposed bridge and new geometry of the channel. Used the HEC-RAS model to analyze the proposed scour. Completed the criteria and hydraulic reports for each site included in this project.

St. James Interior Drainage (Matherne, David, Woods Canal) - *St. James Parish, LA* - Reviewed and assisted in preparing final plans for the improvement of lateral ditches and culverts along LA 3125. Assisted in performing Rational Method calculations for sizing culverts and calculating quantities for ditch improvements and outfall armoring. Aided with Construction Administration responsibilities including preparing bid documents, tabulating bids, performing periodic site visits, and generating closeout documents.

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>Cousins Pumping Station Complex <i>Jefferson Parish, LA</i></p> <p>Craig Waugman USACE New Orleans District 7400 Leake Avenue New Orleans, LA 70118 (504) 862-2673</p>  | <p>Burk-Kleinpeter, Inc. (BKI) performed engineering design services, preparation of a design documentation report, development of plans and specifications, right-of-way drawings, quantity take-offs, and cost estimates for improvements to the Cousins Drainage Pumping Station Complex. BKI has partnered with the USACE to provide these improvement services within the Cousins Complex pre- and post-Hurricane Katrina through multiple task orders assigned. Prior to Hurricane Katrina, BKI designed an additional 2,000 cfs of pumping capacity by adding a new pump station with a pile-supported intake basin and concrete discharge tubes, a steel framed superstructure, and included two 1,000 cfs horizontal pumps with diesel engine drives. The project included the relocation of existing fuel tanks and rerouting of fuel lines to maintain existing pump station operations during construction, and a frontal protection structure with sluice gates and butterfly valves to prevent backflow. Reinforced concrete T-walls and I-walls were designed to provide frontal protection in front of the two existing drainage stations and along the discharge channel. To facilitate construction, a submerged 36-inch water line in the Harvey Canal had to be relocated over the new floodwalls. Due to BKI's extensive experience with the design improvements to the Cousins Drainage Pump Station Complex, the U.S. Army Corps of Engineers, New Orleans District selected BKI post-Hurricane Katrina to assist with strengthening the previously constructed floodwalls to conform to the newly developed HSDRRS standards. All existing walls were analyzed in accordance with the new design criteria and a design documentation report was prepared outlining alternatives and associated costs. Based on the report recommendations, modifications were designed that included adding large concrete caps and battered piles to several of the floodwalls, site grading, the placement of stone on the flood side of the walls to reduce the cantilever heights of the walls, and a new sluice gate structure for the discharge of Pump Station No. 2 to meet the 100-year level of risk reduction. BKI provided engineering support during advertising, bidding, and construction for all of the tasks mentioned above. would operate at their optimum capacity.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| | 2013 (Actual) | \$40,000,000 |

TEC Professional Services Questionnaire

| PROJECT NO. 2 | | |
|--|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Maplewood Area Drainage Improvements <i>Jefferson Parish, LA</i></p> <p>Mark Drewes Jefferson Parish Government 1221 Elmwood Park Blvd. Elmwood, LA 70123 (504) 736-6494</p> | <p>Burk-Kleinpeter, Inc. was selected by Jefferson Parish, LA, to provide engineering services for drainage improvements in the Maplewood subdivision area, which had historically flooded during intense rainfall events. FEMA Hazard Mitigation Grant Program funds were awarded to Jefferson Parish after Hurricane Gustav. BKI provided preliminary and final engineering design, bidding assistance, construction administration, and resident inspection services. Work included the design and installation of 9,100 linear feet of subsurface culverts, 33 junction boxes, 80 catch basins, and 3,500 square yards of paving. A major part of BKI's effort was performing the design and construction with cost control and performance schedules to maximize the available grant funds.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 08/2018 | \$10,070,886 | \$201,327 (BKI Fee) |

| PROJECT NO. 3 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>25th Street Canal Drainage Improvements Project (Resiliency District) <i>Gretna, LA</i></p> <p>Amelia Pellegrin City of Gretna 740 2nd Street Gretna, LA 70053 (504) 363-1556</p> | <p>The 25th Street Canal Neighborhood in Gretna, Louisiana experiences the worst repetitive flood claims in the State of Louisiana. The neighborhood flooding occurs when the Heebe Canal backflows into the 25th Street Drainage Canal and overtops its banks. Using a combination of La. State Capital Outlay funds, CDBG funds and FEMA Flood Mitigation Grant Dollars, the City of Gretna awarded BKI the Design, Construction Administration and Resident Inspection Services on the project. The estimated construction costs is \$13,970,000. The components of the project consist of both Green Infrastructure and Grey Infrastructure. Currently, the neighborhood is a Gravity Drainage System using both the 25th Street Canal and several outfall pipes into the Heebe Canal. After performing Hydraulic Modeling using the United States Army Corps of Engineers Software (HEC RAS), it was determined that a 350 cubic feet per second pump station would be built at the confluence of the 25th Street and Heebe Canals. In addition, the gravity drainage system would be manifolded to route all the runoff to the Pump Station by placing flap gates on the existing outfall drainage pipes, reversing drainage pipe grades and installing Green Infrastructure to reduce runoff. Because the Eastern Bank of the Heebe Canal was failing, Over 2000 feet of sheet pile wall was installed to secure the bank and allow for flap gate installation. In order to manifold the drainage system and force the runoff to the pump station over 5400 feet of new drainage pipe was installed. Green Infrastructure techniques such as Gabion retaining walls, bioswales and riparian plantings were used along the upstream portions of the 25th Street Canal to not only lessen runoff and required pumping capacity but also to provide recreational aesthetic amenities for the neighborhood residents.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| Ongoing | \$13,970,000 (Constr.) | \$13,970,000 Constr.) |

TEC Professional Services Questionnaire

| PROJECT NO. 4 | | |
|--|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Willowridge, Ellington, and Magnolia Ridge Drainage Pumping Stations St. Charles Parish, LA</p> <p>Sam Scholle St. Charles Parish 15045 River Road P.O. Box 302 Hahnville, LA 70057 (985) 783-5102</p> | <p>The new Willowridge Drainage Pumping Station has a capacity of 300 cfs and a 23-acre detention pond at the station intake. The station has vertical axial/mix flow pumps driven by electric motors. The new Ellington Drainage Pumping Station has a capacity of 500 cfs. BKI designed the station, along with an automatic siphon recovery and vacuum breaking system to reduce motor horsepower and prevent backflow through the discharge pipes designed to cross over the levee, eliminating the need for discharge gates. The station is equipped with four 125 cfs vertical pumps driven by electric motors. The new Magnolia Ridge Drainage Pumping Station has a capacity of 500 cfs made up of with four (4) 125 cfs vertical pumps driven by vertical diesel engines that qualify for Tier III emission standards. All machinery in these drainage pumping stations is protected by a weatherproof superstructure designed to 150 mile per hour three second wind gusts. The new stations have catenary type trash screens and cleaners and can be operated remotely through telemetry.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| Ongoing | \$75,000,000 | \$7,563,014 (BKIFee) |

| PROJECT NO. 5 | | |
|---|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>I-10/I-610 Interchange - Railroad Underpass Pump Station Orleans and Jefferson Parishes, LA</p> <p>Amanda Ranck Louisiana Department of Transportation and Development 1201 Capital Access Rd. Baton Rouge, LA 70802 (225) 379-1338</p> | <p>BKI was selected by the Louisiana Department of Transportation and Development to prepare the preliminary and final plans for the construction of a new 850 cubic feet per second drainage pumping station designed to reduce flooding on Interstate 10 in New Orleans. The new pumping station is designed to keep the interstate from flooding during a 100-year flood event. The pumping station consists of three 72 inch vertical pumps and one 48 inch vertical pump. Flood waters are pumped over land through four steel pipes and across the levee into the 17th Street Canal. In order to collect the storm water and transport it to the pumping station, the existing subsurface drainage system was replaced with a new collection system. The new drainage system is made up of 2,000 linear feet of 84 inch concrete pipe and various trench drains and catch basins to intercept the storm water, as well as a new 1,200 foot long intake canal consisting of two 8.5 foot by 10 foot concrete box culverts.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2015 (Actual) | \$18,000,000 (Constr.) | \$18,000,000(Constr.) |

TEC Professional Services Questionnaire

| PROJECT NO. 6 | | |
|--|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Marvin Braud Pump Station Improvements <i>Ascension Parish, LA</i></p> <p>Chase Melancon East Ascension Parish Consolidated Gravity Drainage District 1 42077 Churchpoint Road Gonzales, LA 70737 (225) 621-5730</p> | <p>Burk-Kleinpeter, Inc., (BKI) was selected by the East Ascension Parish Consolidated Gravity Drainage District 1 to evaluate the capacity of the existing Marvin Braud Pump Station and to prepare recommendations for improvements. Due to rapid growth of the area since the station's construction, BKI performed a complete Hydrologic and Hydraulic study model of the basin to determine optimal station expansion sizing in order to keep pace with development in the area. This model was calibrated to the Hurricane Rita event using stream gauges throughout the basin. ESRI's ArcGIS and HEC-RAS to display inundation areas and depths. BKI utilized HEC-HMS and HEC-RAS software to prepare recommendations as well as the design for the addition of two (2) 1,000 cfs pumps to meet existing and future demands of a 10-year rainfall event. A final report was provided to Ascension Parish outlining BKI's recommendations and associated costs. Based on the recommendations outlined in the design report, Ascension Parish directed BKI to develop the plans and specifications, as well as provide construction administration, and resident inspection, during the build for enclosing the existing pump station to provide all weather access for the pump operators and for increasing the pump capacity by an additional 2,000 cubic feet per second (cfs). The pump station improvements included a new metal station housing to protect the existing five pumps, gears and diesel engines, as well as the installation of two new pump bays. This involved the relocation of the existing fuel tanks and silencers to accommodate the new structure and the installation of new fuel tanks to serve all seven pumps. The two new "flowerpot" type pumps were 1,000 cfs, each with formed suction intakes, mechanical screen cleaner, right angle gears, and vertical diesel engines, that qualify under EPA.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| | 12/2017 | <p>\$20,397,137</p> <p>\$20,397,137</p> |

| PROJECT NO. 7 | | |
|--|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Permanent Canal Closures and Pump Stations (PCCP) Extension of Staff Services <i>Belle Chasse, LA</i></p> <p>Ignacio Harrouch Coastal Protection & Restoration Authority P.O. Box 94369 Baton Rouge, LA 70804 (225) 342-4501</p> | <p>Burk-Kleinpeter, Inc., was tasked with providing services to help extend the capabilities of the CPRA's project management staff to verify project constructibility, operability, and maintainability for over 70 project features for each of three lakefront drainage pump stations and floodgate structures. These services included technical review of all design and construction documents for the PCCP project that was designed by the USACE and its design-build contractor. This role required special attention during project execution to ensure that operations and maintenance (O&M) of completed structures was minimized and not problematic since the CPRA would inherit the O&M responsibilities of this 100% federally-funded project. The three pumping stations included the 17th Street Canal (12,500 CFS), the Orleans Avenue Canal (2,700 CFS) and the London Avenue Canal (9,000 CFS). Each PCCP included gated closure sections to provide 100-year level storm surge risk reduction. Approximately 2,500 linear feet of T-wall was designed and constructed from the canal outfalls to tie into the existing storm surge risk reduction system. The project allows the Sewerage and Water Board of New Orleans to evacuate rainwater unimpeded from the city.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| | 06/2020(Actual) | <p>\$726,000,000</p> <p>\$8,512,346</p> |

TEC Professional Services Questionnaire

| PROJECT NO. 8 | | |
|--|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p align="center">Plaquemines Drainage Pumping Station- Belle Chasse No. 1 <i>Belle Chasse, LA</i></p> <p align="center">Ken Dugas Plaquemines Parish Government 333 F. Edward Hebert Blvd. Belle Chasse, LA 70037 (504) 297-5347</p> | <p>BKI provided improvements to levee and floodwall systems in Plaquemines, Orleans, and Jefferson Parishes, as proposed by the USACE. Proposed improvements at the Belle Chasse No. 1 pumping station required two diesel engines be replaced with higher horsepower units to compensate for the increased pumping pressure requirements. Design included replacement of two existing engines, heat exchangers, and gear drives with two new 1855-hp diesel engines with increased capacity heat exchangers, and two new gear drives. The work included modification and some replacement of the existing heat exchanges, cooling box structure, and new controls for engines and gears. The project did not require an increase in discharge flow. Due to limitations inherent to the original pump design, the project compensated for the additional pumping pressures required but was designed to maintain the status-quo for the 800-cfs discharge per pump.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 10/2017 | \$458,000 (Constr.) | \$458,000 (Constr.) |

| PROJECT NO. 9 | | |
|---|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p align="center">Lake Borgne Basin Levee District (LBBLD) Drainage Pump Station Nos. 6 & 7 Refurbishment / Pump Station No. 6 Erosion Control Design <i>St. Bernard Parish, LA</i></p> <p align="center">Ryan Foster, PE Southeast Louisiana Flood Protection Authority - East 6920 Franklin Avenue New Orleans, LA 70122 (504) 286-3100</p> | <p>Burk-Kleinpeter, Inc., (BKI), was tasked with developing a scope of work to repair the vertical pumps at Lake Borgne Basin Levee District Pump Station 6 and rehabilitating and re-coating the discharge piping at Pump Stations 6 and 7. These stations were constructed 30 years ago, and the pumps and discharge pipes had reached the end of their service life. BKI researched the typical types of wear for these pumps and gathered data on the pumps and station layout and reviewed contractor inspection reports and conducted periodic visits to the machine shop and paint yard. The discharge piping was repaired by cutting and removing the piping from the discharge basin, removing the paint, and inspecting the welds and steel for damage. Then the pipes were re-coated and reinstalled with new sacrificial anodes and valves. BKI also assisted the Owner in documenting damage found in the pumps that could be attributed to Hurricane Katrina. The Lake Borgne Basin Levee District selected BKI to improve the integrity of Pump Station #6. Erosion Control had become necessary as the area surrounding this pump station had, over time, developed degraded bank stabilization and structure of existing riprap erosion control. BKI was tasked with providing detailed drawings, specifications, bidding assistance, and construction management for repairing the erosion control system. The project included detailing access to the flood side of the pump station and levee. Detailing the type, size, and quantity of rip rap - erosion control that will be required to protect the structural integrity of Pump Station #6.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 02/2020 (Actual) | \$1,324,025 (Constr.) | \$1,324,025 (Constr.) |

TEC Professional Services Questionnaire

| PROJECT NO. 10 | | |
|--|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Gulf Intracoastal Waterway West - Flood Control Structure Construction Management <i>Belle Chasse, LA</i></p> <p>Ignacio Harrouch Coastal Protection & Restoration Authority P.O. Box 94369 Baton Rouge, LA 70804 (225) 342-4501</p> | <p>BKI was contacted by the Southeast Louisiana Flood Protection Authority - West to request our technical assistance in reviewing the construction activities at the GIWW-West Closure Complex for all adherence to the construction documents. The Louisiana Office of Coastal Protection and Restoration then contracted with BKI to provide a senior level mechanical engineer to perform full time on-site construction observation of all construction activities throughout the construction phase of this large flood control project. The project scope included construction of a 19,140 CFS drainage pumping station, a 225' wide navigable sector gate complex, five 16'x16' gravity drainage bays with sluice gates, and over 4,200 LF of concrete T-wall floodwalls adjacent to the Bayou Aux Carpes 404(c) protected wetland area. The BKI representative sat in on weekly construction progress meetings with the contractor and the Corps of Engineers personnel and offered technical advice on a wide variety of construction topics to provide technical input from the local sponsor. The local sponsor was kept informed of the status of construction and all outstanding construction issues by the BKI representative throughout the construction period. The entire project was substantially complete in 24 months and met the Corps of Engineers deadline to provide 100 year level of flood protection to the residents of the West Bank of Jefferson, Orleans, and Plaquemines Parishes by the June 1, 2011 deadline established by the New Orleans District Commander.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 06/2013 (Per Project Renew) | \$1,000,000 | \$792,580.23 (BKI 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. N/A | | |
| 3. N/A | | |
| 4. N/A | | |

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



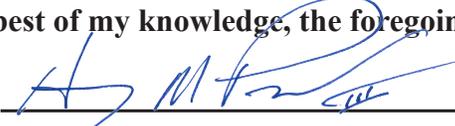
BURK-KLEINPETER, INC., (BKI) is pleased to submit our Statement of Qualifications to Jefferson Parish in response to your public notice for **SOQ 22-045 Woodlake Estates Drainage Improvements**. As a certified small business with over 100 years of experience, BKI is one of the leading consulting firms in the southeast region providing professional engineering (civil, mechanical, and structural), planning, and environmental services to public and private clients throughout the southeastern US. The firm's engineering practice has consistently ranked among the top 20 firms in the southern states and is included regularly in the Top 500 Design Firms in the nation by *Engineering News Record*. This is a major accomplishment for a privately owned, New Orleans based firm. We were recently recognized as part as part of the 2022 UNO25 class which recognizes 25 businesses that are making an impact on the community.

Our stability and depth of experience has provided numerous state and local public works authorities with consulting services for the successful completion of a wide range of projects. With a multidisciplinary platform of experience and abilities, BKI integrates the proven best practices from all disciplines to meet our clients' big-picture needs in an ever-changing environment.

Headquartered in New Orleans with a branch office in Metairie, BKI has provided engineering services to Jefferson Parish for more than 40 years. In addition to our work with Jefferson Parish, BKI has worked independently and in coordination with sub-consultants on numerous drainage pump stations as well as a variety of drainage public works projects utilizing our extensive experience performing civil and structural engineering services for projects across southeastern Louisiana, on the Mississippi Gulf Coast, and in central and coastal Alabama within this time frame.

(See Additional Pages)

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

Signature:  Print Name: Henry M. Picard, III PE, PLS

Title: Senior Vice President Date: September 15, 2022

TEC Professional Services Questionnaire

The list below highlights BKI's major drainage pump station project experience:

Drainage Pumping Station No. 8, Lake Borgne Basin Levee District, 1000 CFS
Drainage Pumping Stations No. 6 & No. 7, Lake Borgne Basin Levee District, 1000 CFS each
Florissant Pumping Station, Lake Borgne Basin Levee District, 53 CFS
Reggio Pumping Station, Lake Borgne Basin Levee District, 106 CFS
Lakewood Pump Station DW4A, St. Charles Parish Department of Public Works, 56 CFS
Lakewood Pump Station Expansion DW4, St. Charles Parish Department of Public Works, 41 CFS
Drainage Pump Station No. 1 - Bonnabel Canal, Jefferson Parish DPW, 3600 CFS
Drainage Pump Station No. 2 Expansion- Suburban Canal, Jefferson Parish DPW, 3200 CFS
Drainage Pump Station No. 3 - Elmwood Canal, Jefferson Parish DPW, 3400 CFS
Drainage Pump Station No. 4 - Duncan Canal, Jefferson Parish DPW, 4600 CFS
Parish Line Drainage Pumping Station, Jefferson Parish DPW, 900 CFS
Canal Street Canal Drainage Pumping Station, Jefferson Parish DPW, 200 CFS
Drainage Pump Station No. 6 Expansion, Sewerage and Water Board of New Orleans, 3200 CFS
Destrehan Pump Station No. 2 Expansion, St. Charles Parish Department of Public Works, 500 CFS
Diane Place Pump Station, St. Charles Parish Department of Public Works, 125 CFS
Schneider Canal Drainage Pumping Station, City of Slidell, 900 CFS
Tensas-Cocodrie Drainage Pumping Station & Gravity Flow Structure, USACE, 4000 CFS
New Taft Park Drainage Pump Station, Jefferson Parish DPW, 63 CFS
St. Bernard Port Drainage Pump Station Rehabilitation, St. Bernard Port, Harbor & Terminal District, 40 CFS
Hero Drainage Pump Station Pumps 4 & 5 Physical Modeling, USACE, New Orleans District

MINIMUM REQUIREMENTS FOR SELECTION

- 1. A principal who is a professional engineer who shall be registered as such in Louisiana with a minimum of ten (10) years' experience in the discipline involved.**
 - *Michael D. Chopin, PE*, BKI's President & CEO, is a principal in the firm and a licensed, registered professional engineer in the State of Louisiana with over 31 years of experience in the disciplines involved.
- 2. A person who is the Professional in Charge of project is a licensed, registered, professional engineer in the State of Louisiana with a minimum of five (5) years' experience.**
 - *Henry M. Picard, III, PE, PLS*, a BKI Senior Vice President and Civil Engineer, is a licensed, registered professional Civil Engineer in Louisiana with over 41 years' experience in Program Management and the disciplines involved.
- 3. The persons shall have a minimum of one employee who is a licensed, registered, professional engineer in the State of Louisiana in the applicable discipline involved.**
 - *David E. Boyd, PE*, a BKI Vice President, is a licensed, registered professional civil engineer in Louisiana with 18 years' experience the disciplines involved.
 - *Rene A. Chopin, III, PE*, BKI Senior Vice President/ Chief Engineer, registered professional civil engineer in Louisiana with 34 years' experience the disciplines involved.
 - *Timothy J. Koenig, PE*, BKI Civil Engineer, is a licensed, registered professional civil engineer in Louisiana with 20 years' experience in disciplines involved.
 - *René A. Chopin, IV, PE*, a BKI Civil Engineer, is a licensed, registered professional civil engineer in Louisiana with 9 years' experience in disciplines involved.
 - *Rebecca J. Chopin, PE*, BKI Civil Engineer, is a licensed, registered professional civil engineer in Louisiana with 9 years' experience in disciplines involved.
 - *Farhad "Fred" Mogharrebi, PE*, BKI Civil Engineer, is a licensed, registered professional civil engineer in Louisiana with 25 years' experience in disciplines involved.

EVALUATION CRITERIA

1. Professional Training and Experience

BKI has provided **civil, mechanical and structural engineering** services on a wide range of projects in Jefferson Parish including **drainage pump stations and drainage improvement projects**. BKI has nurtured a working relationship with the Jefferson Parish Engineering and Water Departments as well as the various heads of the Public Works Department to provide detailed project scopes of work and to develop an engineered solution. If we are selected to provide services for building and improving the drainage pump station in the Woodlake Estates Subdivision we will use our previous experience and working relationships with the parish and our sub-consultant partners to provide a successful from conceptual design through construction of the drainage pump station.

TEC Professional Services Questionnaire

Michael D. Chopin, PE - *Principal / QA/QC; LA Registered Professional Engineer (MPR No. 1)*

- 31 years of experience in civil engineering planning, design, and construction of Jefferson Parish projects
- Wide range of project management experience includes numerous drainage projects.

Henry M. Picard, III, PE, PLS - *Program Manager; LA Registered Professional Engineer (MPR No. 2)*

- 41 years of experience includes project management of drainage pump stations projects, public work projects, and drainage improvement projects.
- Wide range of project management experience includes drainage water, sewer, and roadway projects.
- Wide range of experience as Principal, Project Manager, or Project Engineer includes many projects in Jefferson Parish.

David E. Boyd - *Supervisor; LA Registered Professional Engineer (MPR No. 3)*

- 18 years of experience in civil engineering in the of drainage pump stations projects, public work projects, and drainage improvement projects.

René A. Chopin, IV, PE - *Civil Engineer; LA Registered Professional Engineer (MPR No. 3)*

- 9 years experience in civil/hydraulic engineering
- Experience includes performing engineering calculations, site layout, plan and specification preparation, estimating project costs, and construction administration for various project types (water, roadway and drainage improvement, master drainage plans, levee and storm water prevention and harbor improvement projects).

Timothy J. Koenig, PE - *Civil Engineer; LA Registered Professional Engineer (MPR No. 3)*

- 20 years of experience in civil engineering and utility design.
- Typical responsibilities include managing plan production on large scale public works projects, preparing construction documents, leading CAD technicians and engineers, utility coordination, and construction administration.
- Has worked on many project types and sizes in Jefferson Parish.

Daniel S. Caluda, Jr - *Mechanical Designer*

- Over 30 years of experience in Mechanical Design
- Has provided water facility operations supervision as well as training of water facility operators.
- Has provided design services for dozens of water facility and pump stations in the Greater New Orleans region and has overseen design and construction of two of the largest pump stations in the world.

René A. Chopin III, PE - *Chief Engineer/Structural Engineer; LA Registered Professional Engineer (MPR No. 3)*

- 34 years of engineering experience in structural including Jefferson Parish Projects.
- Has served as Project Manager or Project Engineer on a wide range of drainage improvement projects, water treatment plants' and water storage projects as well as other structural projects.

Rebecca J. Chopin, PE - *Structural Engineer; LA Registered Professional Engineer (MPR No. 3)*

- 9 years of experience in structural engineering.
- Has experience in structural concrete design including bridges, pile bents, and flood protection.

Farhad "Fred" Mogharrebi, PE - *Structural Engineer; LA Registered Professional Engineer (MPR No. 3)*

- 25 years of experience in structural engineering.
- Experience with a focus on USACE flood control projects, water works, pumping stations, port and airport projects.

Renee Poole, EI - *Engineer Intern*

- 3 years of experience as a structural engineering intern with a focus on drainage improvements and hydraulic analysis.

TEC Professional Services Questionnaire

EDUCATION AND EXPERTISE OF PROPOSED STAFF

| NAME | YEARS EXPERIENCE | EDUCATION | EXPERTISE | JEFFERSON PARISH EXPERIENCE |
|-------------------------------|------------------|---|------------------------------|-----------------------------|
| Michael D. Chopin, PE | 31 | BS, Civil Engineering | QA/QC, Civil Engineering | Yes |
| Henry M. Picard, III, PE, PLS | 41 | BS, Civil Engineering | QA/QC; Program Management | Yes |
| Rene A. Chopin, III, PE | 34 | BS, Civil Engineering | Chief/ Structural Engineer | Yes |
| David E. Boyd, PE | 18 | BS, Civil Engineering | Civil Engineer | Yes |
| Rene A. Chopin, IV, PE | 9 | BS, Civil Engineering | Civil and Hydraulic Engineer | Yes |
| Timothy J. Koenig, PE | 20 | BS, Civil Engineering | Civil Engineer | Yes |
| Rebecca J. Chopin, PE | 9 | BS, Civil Engineering | Structural Engineer | Yes |
| Daniel S. Caluda, Jr. | 40 | BS, Petroleum Engineering | Mechanical Designer | Yes |
| Farhad "Fred" Mogharrebi, PE | 25 | BS, Civil Engineering | Structural Engineer | Yes |
| Renee Poole, EI | 3 | BS, Civil and Environmental Engineering | Civil Engineer Intern | Yes |

2. Size of Firm

BKI's entire company staff (including branch offices) consists of 38 full-time employees. Thirty-six (35) of these employees work out of our New Orleans headquarters and **Metairie** branch office. These 35 employees are categorized as follows:

| ENGINEER | PLANNER | DESIGNER/DRAFTER | ENGINEERING INTERN | CONSTRUCTION INSPECTOR | ADMINISTRATIVE |
|--------------------------------|---------|------------------|--------------------|------------------------|----------------|
| Civil: 7; Structural: 4 | 2 | 5 | 3 | 2 | 13 |

Of these employees, we have identified **10** individuals who will make up the core staff to provide services for this project. *See Section K for their resumes.* In addition, we are able to marshal resources from other experienced staff members in the company.

3. Capacity for Timely Completion

BKI's past performance attests to its capacity to handle a reasonably large number of projects concurrently without any reduction in quality of design. Our present workload is such that we are able to commit the appropriate resources, including technical and support personnel. Based on BKI's well-established record of providing high quality services within set time frames, we are confident that BKI possesses the necessary manpower to complete any assigned tasks without compromising our standards. Because BKI has a team of experienced program managers, construction inspectors and field engineers, BKI can accommodate any field decisions or plan changes quickly and efficiently. Our key staff members are dedicated, seasoned professionals who are equipped to simultaneously handle the needs of multiple projects.

4. BKI's Past Performance on Jefferson Parish Contracts

BKI has performed successfully on numerous Jefferson Parish and public contracts of various types/sizes without time delays, cost overruns, or design inadequacies in prior work completed for the parish.

5. Location of Principal Office Where Work will be Performed

BKI's Metairie branch will be the main project office. This office is located at 3240 South I-10 Service Road, West, Room 300. Our business hours are 7:30 a.m. to 5:30 p.m., Monday through Thursday, and 7:30 a.m. to 11:30 a.m., on Friday.

6. Adversarial Legal Proceedings with Jefferson Parish

BKI has no previous nor ongoing litigation with Jefferson Parish or any segment of the Parish government.

TEC Professional Services Questionnaire

7. Prior successful completion of projects of the type and nature of the program manager services, as defined, for which firm has provided verifiable references.

Drainage Pumping Stations

BKI is one of the foremost authorities in drainage pumping station design in the Gulf South Region. Over the past 30 years, we have led the design on more than 35 stations ranging in pumping capacities from 150 – 4,000 cubic feet of water per second (cfs), with additions to pump stations up to 12,500 cfs. Designs can incorporate well proven pumping station hydraulics standards, newer USACE requirements and USACE-developed modern-formed suction intakes, as well as the application of hydraulic, physical and computer models to help fine tune final engineering designs. BKI has successfully applied numerous types of drainage pumps (12 feet, horizontal and flowpot; 8 feet, vertical; etc.), drivers (diesel engine and electric motor), intake screen cleaning systems, and backflow prevention designs, and is familiar with the various auxiliaries required for the construction of reliable and effective drainage stations. BKI has also provided FEMA Certifications for pumping stations (St. Charles Parish and Orleans Parish). This experience coupled with our drainage system design abilities make BKI an excellent choice when drainage and flood protection design services are needed.

Below lists clients and reference information for a variety of projects in Jefferson Parish:

| PROJECT NAME | FIRM ROLE | PROJECT DESCRIPTION | CLIENT REFERENCE |
|---|------------------|--|---|
| Maplewood/ Paillet Area Drainage | Prime Consultant | Topographic Survey Preliminary & Final Engineering Design Bidding Assistance Construction Administration Resident Inspection Subdivision Drainage | Mark Drewes, PE Jefferson Parish 1221 Elmwood Park Blvd., Suite 80 Jefferson, LA 70123 P: (504) 736-6494 Email: mdrewes@jeffparish.net |
| Cheniere, Bridge City, and Harvey Water Storage Tank | Prime Consultant | Mechanical Engineering Structural Engineering Plans & Specifications Project Management Construction Administration Resident Inspection | Sidney Bazley, II - Jefferson Parish 1221 Elmwood Park Blvd., Suite 803 Jefferson, LA 70123 P: (504) 655-2628 Email: sbazley@jeffparish.net |
| Rosethorne 0.5 MGD WWTP | Prime Consultant | Civil Engineering Mechanical Engineering Electrical Engineering Plans & Specifications Resident Inspection Construction Management | Michael Lockwood - MSHP Jefferson Department of Sewerage 1221 Elmwood Park Blvd., Suite 80 Jefferson, LA 70123 P: (504) 736-6783 Email: jpenvironmental@jeffparish.net |
| Marrero WWTP | Prime Consultant | Evaluation and Analysis Civil Engineering Mechanical Engineering Electrical Engineering HVAC Design Plans & Specifications Construction Management | Michael Lockwood - MSHP Jefferson Department of Sewerage 1221 Elmwood Park Blvd., Suite 80 Jefferson, LA 70123 P: (504) 736-6783 Email: jpenvironmental@jeffparish.net |
| Bridge City WWTP Process Improvement | Prime Consultant | Evaluation & Analysis Civil Engineering Mechanical Engineering Plans & Specifications Resident Inspection Construction Management | Sidney Bazley, II - Jefferson Parish 1221 Elmwood Park Blvd., Suite 803 Jefferson, LA 70123 P: (504) 655-2628 Email: sbazley@jeffparish.net |

Conclusion

In the body of this Jefferson Parish Professional Services Questionnaire, BKI has provided the information requested in your Request for Qualifications. We feel we have the manpower, expertise, and equipment to exceed your expectations for **SOQ 22-045 Woodlake Estates Drainage Improvements**.



Gulf South Engineering & Testing, Inc.
TEC Questionnaire



TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Woodlake Estates Drainage Improvements

SOQ 22-045 | Resolution No. 140204

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:

| | | | | | |
|----|-----------------------------|---|-----------------------------------|------------|--|
| 7 | Administrative | - | Geologists | 1 | Graduate Engineers |
| - | Architects (Licensed) | 2 | Geotechnical Engineers | - | Project Managers |
| - | Chemical Engineers | - | Interior Designers | - | Clerical (<i>see Administrative</i>) |
| - | Civil Engineers | - | Landscape Architects | - | Grant/Funding Specialist |
| 13 | Construction Inspectors | - | Land Surveyor (<i>*see PLS</i>) | - | Sanitary Engineers |
| - | Ecologists | - | Mechanical Engineers | 1 | Construction Svcs Managers |
| - | Electrical Engineers | - | Environmental Engineers | 1 | CMT Supervisors |
| - | Engineer Intern | - | Specification Writers | 2 | CMT Project Managers |
| 1 | Professional Land Surveyors | - | Structural Engineers | 1 | Field Engineer |
| - | Estimators | | | 2 | Laboratory Manager |
| | | | | 3 | Laboratory Technician |
| | | | | 1 | Soil Boring Driller |
| | | | | 1 | Soil Boring Driller Apprentice |
| | | | | 36* | 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:

36 (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:

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

Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility permitting; managing personnel and office operations and serving as an Expert Witness.

Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E. (continued)

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 (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 the levee to the protected side. (\$35,000 (fee); 2021)

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)

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)

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

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)

Westwego Pump Station #1, Jefferson Parish, LA. Gulf South performed field and laboratory testing during pump station #1 installation. Scope of services included field density tests, concrete testing and inspection, laboratory testing, and vibration monitoring. (\$10,000 (fee); 2016)

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Blake E. Vutera, P.E.
Engineering Manager

Project Assignment:

Geotechnical Engineer

Name of Firm with which associated:**Years experience with this Firm:**

10 years with this firm (2012); 16 years total (2006)

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

2013, Civil Engineer, Louisiana, No. 38607
2018, Professional Engineer, Texas No. 129410

Other experience and qualifications relevant to the proposed Project:

Blake E. Vutera, P.E., 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, managing all geotechnical investigations, and aiding with laboratory testing and construction materials testing & inspection. Engineering analyses routinely performed includes 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.

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

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Blake E. Vutera, P.E. (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 (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 the levee to the protected side. (\$35,000 (fee); 2021)

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. Scope 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)

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)

Westwego Pump Station #1, Jefferson Parish, LA. Gulf South performed field and laboratory testing during pump station #1 installation. Scope of services included field density tests, concrete testing and inspection, laboratory testing, and vibration monitoring. (\$10,000 (fee); 2016)

Good News Avenue Pump Station Project, Belle Chasse, Plaquemines Parish, LA. Geotechnical forensic investigation for installation of piezometers and observing soil conditions off Good News Avenue in Belle Chasse, LA. Gulf South's scope includes drilling two undisturbed soil borings (depth of 80 ft each), installing piezometers, and laboratory testing. (\$11,000 (fee); 2019)

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

Replacement of Sewer Pump Station (SPS) 8, Sewerage & Water Board of New Orleans, LA. This \$15 million project consisted of the replacement of a sewer pump station for the Sewerage & Water Board of New Orleans. Gulf South provided field and laboratory inspection and testing of materials during construction (CMT). Our scope of services included performing: a pile load test, pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including field density tests, and steel inspection. (\$103,411 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Joseph H. “Trey” Binder, III
Laboratory Manager

Project Assignment:

Laboratory Manager; Laboratory Technician

Name of Firm with which associated:



Years experience with this Firm:

11 years with this firm (2011); 16 years total (2006)

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Trey Binder has direct experience with field and laboratory testing services. 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.

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

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

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)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Joseph H. Binder, III (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 (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 the levee to the protected side. (\$35,000 (fee); 2021)

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)

Westwego Pump Station #1, Jefferson Parish, LA. Gulf South performed field and laboratory testing during pump station #1 installation. Scope of services included field density tests, concrete testing and inspection, laboratory testing, and vibration monitoring. (\$10,000 (fee); 2016)

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)

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

Pump Station 45 Upgrades (Clark Street), East Baton Rouge Parish, LA. Geotechnical investigation regarding the construction of a new pump station and a new 5 MG tank (with the option to build a second tank) at the existing PS 45 site along Clark Street in Baton Rouge, LA. Scope of services included drilling 11 undisturbed soil borings to depths of 80 to 120 ft. below the ground surface. Geotechnical laboratory testing were performed to ASTM standards and include strength test (unconfined and/or triaxial), classification tests (Atterberg Limits and/or particle size), consolidation tests, and others as appropriate. Geotechnical engineering analyses included allowable soil bearing values, shaft/pile load capacities, estimates of settlements, sludge loading analyses, and general construction procedures and recommendations. (\$68,000 (fee); ongoing)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Bryson S. Beard, E.I.

Associate Geotechnical Engineer/Field Engineer

Project Assignment:

Associate Geotechnical Engineer/Field Engineer

Name of Firm with which associated:

ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years experience with this Firm:

less than 1 year with this firm (2022); 1 year total (2021)

Education: Degree(s)/Year/Specialization:

B.S., 2021, Geological Engineering, University of Southern Mississippi

Active registration: Year first registered/discipline:

2022, Engineer In Training (Georgia, No. EIT029180)

Louisiana License In Process

Other experience and qualifications relevant to the proposed Project:

Bryson S. Beard, E.I., is an Associate Geotechnical Engineer/Field Engineer who is primarily serving as a field engineer with Gulf South's drilling crews and providing office support as needed. His experience in the field includes surface and subsurface soil sampling, water sampling, and soil classification.

- 40-hour HAZWOPER (Field Work)
- Fundamentals of Engineering Exam (FE), NCEES

Mr. Beard's work experience further includes core logging and oversight of groundwater monitoring well installations, piezometers, and inclinometers. He has been responsible for the preparation of reports and Facility Response Plans. Further, he is a START V Region 4 Responder, and can be used whenever there is a large spill/release of harmful chemical or substance. Mr. Beard is experienced with laboratory sample preparation and testing.

Lee Street Drainage Pump Station Improvements, City of Slidell, LA. Gulf South prepared a Geotechnical Exploration Report for the project site located at the junction of Lee Street and Front Street in Slidell, LA. Gulf South's scope includes drilling soil borings to 50 ft. in depth, laboratory testing, engineering analyses (soil bearing values, bedding & backfill, pile capacities, and estimates of settlement) and general construction procedures and recommendations. (\$4,000 (fee); 2022)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Bryson S. Beard, E.I. (continued)

Pump Station 45 Upgrades (Clark Street), East Baton Rouge Parish, LA. Geotechnical investigation regarding the construction of a new pump station and a new 5 MG tank (with the option to build a second tank) at the existing PS 45 site along Clark Street in Baton Rouge, LA. Scope of services included drilling 11 undisturbed soil borings to depths of 80 to 120 ft. below the ground surface. Geotechnical laboratory testing were performed to ASTM standards and include strength test (unconfined and/or triaxial), classification tests (Atterberg Limits and/or particle size), consolidation tests, and others as appropriate. Geotechnical engineering analyses included allowable soil bearing values, shaft/pile load capacities, estimates of settlements, sludge loading analyses, and general construction procedures and recommendations. (\$68,000 (fee); ongoing)

Sewer Lift Station No. F6-2 (W. Napoleon Blvd.), Metairie, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for upgrading an existing below grade sewer lift station (No. F6-2) off West Napoleon Boulevard in Metairie, LA. Gulf South's scope includes drilling a single boring to a depth of 60 feet below the ground surface, laboratory testing, engineering analyses (soil bearing values, bedding & backfill, pile capacities, and estimates of settlement) and general construction procedures and recommendations. (\$5,000 (fee); 2022)

Lift Station Rehabilitation (Wildcat Lane), Destrehan, St. Charles Parish, LA. Geotechnical engineering services for rehabilitation of an existing below grade sewer lift station off Wildcat Lane in Destrehan, LA. Gulf South's scope includes drilling a single boring to a depth of 70 feet below the ground surface, laboratory testing, engineering analyses (soil bearing values, pile capacities, bedding & backfill, and estimates of settlement) and general construction procedures and recommendations. (\$5,800 (fee); 2022)

Lift Station Upgrade (24th St. and Delaware Ave.), City of Kenner, LA. Geotechnical engineering services for construction of a new generator pad and wet well located at 24th Street and Delaware Avenue in Kenner, LA. Gulf South's scope of services includes drilling two borings to a depths of 70 feet (1 boring for wet well) and 50 feet (1 boring for generator pad) below the ground surface, laboratory testing, engineering analyses (soil bearing values, pile capacities, bedding & backfill, and estimates of settlement) and general construction procedures and recommendations. (\$7,500 (fee); 2022)

Brewster Road/LA 1077 Drainage Improvements, Madisonville, St. Tammany Parish, LA. Geotechnical engineering services for a drainage improvements at the existing parish canal off LA-1077 and Galatas Road in Madisonville, St. Tammany Parish, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet (2 locations) and 30 feet (3 locations) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$20,000 (fee); ongoing)

Wastewater Treatment Plant Improvements, Eden Isle Subdivision, Slidell, St. Tammany Parish, LA. Geotechnical engineering services for the construction of a new elevated storage building housing six blower units and slab-on-grade supported water storage, concrete tank within the wastewater treatment plan off Lakeview Drive in Slidell, LA. Gulf South's scope includes drilling two undisturbed soil borings to depths of 40 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$7,500 (fee); ongoing)

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>Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA</p> <p>Jefferson Parish c/o ECM Consultants, Inc. 1301 Clearview Parkway Suite 200 Metairie LA 70001</p> <p>Susina Shrestha, P.E., 504-885-4080 sshrestha@ecmconsultants.com</p> | <p>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 the levee to the protected side.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2021 September | N/A | \$35,000 (fee) |

PROJECT NO. 2

| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
|--|---|--------------------------------------|
| <p>Lake Cataouatche Pump Station, Avondale, Jefferson Parish, LA</p> <p>Jefferson Parish 1221 Elmwood Park Blvd Ste 907 Jefferson LA 70123</p> <p>Mitch Theriot, P.E., 504-736-6742 mtheriot@jeffparish.net</p> | <p>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.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2019 October | N/A | \$12,500 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 3 | | |
|---|---|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, LA</p> <p>Principal Engineering, Inc. 1011 N Causeway Blvd Ste 19 Mandeville LA 70471</p> <p>André C. Monnot, P.E., 985-624-5001 andre@pi.aec.com</p> | <p>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.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2020 May | N/A | \$7,500 (fee) |

| PROJECT NO. 4 | | |
|--|--|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA</p> <p>Jefferson Parish c/o Principal Engineering, Inc. 1011 North Causeway Blvd Ste 19 Mandeville LA 70471</p> <p>Andre Monnot, P.E., 985-624-5001 andre@principal-engineering.com</p> | <p>Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope of work consisted of performing one soil boring to 50 feet, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2013 August | N/A | \$5,000 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 5 | | |
|--|--|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Morton & Ingrid Pump Station Rehabilitation, Jefferson Parish, LA</p> <p>Principal Engineering, Inc. 1011 N Causeway Blvd Ste 19 Mandeville LA 70471</p> <p>Andre Monnot, P.E., 985-624-5001 andre@principal-engineering.com</p> | <p>Geotechnical investigation for below grade pump station replacement. Gulf South drilled 1 boring to 30 feet below the ground surface, provide laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding, and backfill recommendations, estimates of settlement, and general construction recommendations.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2012 March | N/A | \$3,900 (fee) |

| PROJECT NO. 6 | | |
|---|---|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Pump Station 45 Upgrades (Clark Street), East Baton Rouge Parish, LA</p> <p>East Baton Rouge Parish c/o MSMM Engineering, LLC 7640 S. Carrollton Ave Ste 220 New Orleans LA 70119</p> <p>Scott G. Chehardy, P.E., 985- 233-9763 schehardy@msmmeng.com</p> | <p>Geotechnical investigation regarding the construction of a new pump station and a new 5 MG tank (with the option to build a second tank) at the existing PS 45 site along Clark Street in Baton Rouge, LA. Scope of services included drilling 11 undisturbed soil borings to depths of 80 to 120 ft. below the ground surface. Geotechnical laboratory testing were performed to ASTM standards and include strength test (unconfined and/or triaxial), classification tests (Atterberg Limits and/or particle size), consolidation tests, and others as appropriate. Geotechnical engineering analyses included allowable soil bearing values, shaft/pile load capacities, estimates of settlements, sludge loading analyses, and general construction procedures and recommendations.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| ongoing | N/A | \$68,000 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 7 | | |
|---|--|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Lee Street Drainage Pump Station Improvements, City of Slidell, LA</p> <p>City of Slidell Engineering Department 250 Bouscaren Street Suite 302 Slidell LA 70458</p> <p>Blaine Clancy, P.E. bclancy@cityofslidell.com</p> | <p>Gulf South prepared a Geotechnical Exploration Report for the project site located at the junction of Lee Street and Front Street in Slidell, LA. Gulf South's scope includes drilling soil borings to 50 ft. in depth, laboratory testing, engineering analyses (soil bearing values, bedding & backfill, pile capacities, and estimates of settlement) and general construction procedures and recommendations.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2022 May | N/A | \$4,000 (fee) |

| PROJECT NO. 8 | | |
|---|---|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Bayou Conway New Pump Station Upgrade Project, Ascension Parish, LA</p> <p>Ascension Parish Government c/o Infinity Engineering Consultants, LLC 4001 Division Street Metairie LA 70001</p> <p>Louis Jackson, P.E., 504-304-0548 ljackson@infinityec.com</p> | <p>Geotechnical engineering services for the construction of a new pump station upgrade adjacent to the existing 3-pump station located at the confluence of Bayou Conway and three reservoir drainage canals in Ascension Parish, LA. Gulf South's scope includes drilling two undisturbed soil borings to depths of 80 feet below the ground surface, laboratory testing, engineering analyses (including soil classification, soil bearing values, pile/shaft load capacities, settlement estimates, tank stage loading), and general construction procedures and recommendations.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2022 January | N/A | \$16,000 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 9 | | |
|--|--|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Des Allemands Pump Station Rehabilitation, North Lafourche Levee District, Des Allemands, Lafourche Parish, LA</p> <p>All South Consulting Engineers, LLC 302 School Street Houma LA 70360</p> <p>Steve Bourg, P.E., 504-322-2783 sbourg@ascellc.com</p> | <p>Geotechnical engineering services for the rehabilitation of the existing Des Allemands Pump Station along Bayou Des Allemands (west bank) within Lafourche Parish, LA. Gulf South's scope includes engineering analyses including allowable pile load capacities, estimates of settlement, cantilever I-Wall sheetpile design parameters and consideration of 50 ft. and 30 ft. sheet pile lengths per Client's request, and general construction procedures and recommendations.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2019 August | N/A | \$3,500 (fee) |

| PROJECT NO. 10 | | |
|---|---|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Good News Avenue Pump Station Project, Belle Chasse, Plaquemines Parish, LA</p> <p>Cycle Construction, Inc. 6 East Third Street Kenner LA 70062</p> <p>Mitch Roth, 504-467-1444 mroth@cycleconstruction.com</p> | <p>Geotechnical forensic investigation for installation of piezometers and observing soil conditions off Good News Avenue in Belle Chasse, LA. Gulf South's scope includes drilling two undisturbed soil borings (depth of 80 ft each), installing piezometers, and laboratory testing.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2019 June | N/A | \$11,000 (fee) |

TEC Professional Services Questionnaire

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

| Parties: | | Status/Result of Case: |
|------------|------------|------------------------|
| Plaintiff: | Defendant: | |
| 1. N/A | | |
| 2. | | |
| 3. | | |
| 4. | | |

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



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*
- *Soil testing (field and laboratory)*
- *Asphalt testing*

TEC Professional Services Questionnaire

N. continued.

- *Pile (driven & augercast) and shaft installation monitoring*
- *Load tests*
- *Earthwork/proof roll inspection*
- *Welding inspection*
- *Steel inspection*
- *Noise monitoring*
- *Prepare daily field reports and/or field books*
- *Maintain records per the client's directive*

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 • SIZE OF FIRM

At over 30 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 3 • 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 since 1998. He has specialized training and experience in geotechnical engineering throughout Louisiana.

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

As evidenced in the provided projects and personnel résumés, key personnel 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 can submit data in formats acceptable and customized to our clients' needs.

CRITERIA 4 • 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:

- *Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA*
- *St. Peter's Ditch – Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA*
- *N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, LA*
- *Lake Cataouatche Pump Station, Avondale, Jefferson Parish, LA*
- *Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, LA*
- *Parish Line Drainage Pump Station Improvements – Phase I, City of Kenner, Jefferson Parish, LA*
- *Westwego Pump Station #1, Jefferson Parish, LA*
- *New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA*
- *Morton & Ingrid Pump Station Rehabilitation, Jefferson Parish, LA*
- *USACE-WBV 168 Fronting Protection, Bayou Segnette Pumping Station No. 1, Stability Analyses – Temporary Flood Protection, Westwego, Jefferson Parish, LA*

TEC Professional Services Questionnaire

N. continued.

- *Lift Station Rehabilitation (Wildcat Lane), Destrehan, St. Charles Parish, LA*
- *Lift Station Upgrade (24th St. and Delaware Ave.), City of Kenner, LA*
- *Lift Station No. F6-2 (W. Napoleon Blvd.), Metairie, Jefferson Parish, LA*
- *Improvements to Sewer Lift Station No. 48-3, Metairie, Jefferson Parish, LA*
- *Sewer Lift Station at Mississippi Avenue & 21st Street, 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*
- *New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA*
- *New Sewer Force Main Installation (Midway & Wildwood to Lift Station E3-1), Jefferson Parish, LA*
- *Lift Station Replacement - Mississippi Avenue at 21st Street, Metairie, Jefferson Parish, LA*
- *Kawane at Olympic Lift Station, Metairie, 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*
- *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*
- *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*
- *Jefferson Parish Dept. of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *New Charter School, Behrman Highway, Terrytown, 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*
- *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*
- *Green Acres Road - New Street Lighting, Metairie, Jefferson Parish, LA*
- *Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA*
- *Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, LA*
- *Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA*
- *Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA*
- *Submerged Roads Program - Multiple Phases, 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*
- *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.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 5 • LOCATION OF PRINCIPAL OFFICE

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

CRITERIA 6 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

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

CRITERIA 7 • 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:

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)

José A. Gonzales, CAO, City of Kenner

(504-468-4090 | jgonzalez@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

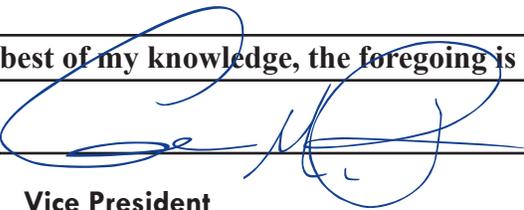
(504-736-6386 | STrouard@jeffparish.net)

Joey Tureau, Infrastructure Division Director, Ascension Parish

(225-450-1013 | jtureau@apgov.us)

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:

September 6, 2022

**BFM Corporation, LLC.
TEC Questionnaire**



TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Woodlake Estates Drainage Improvements

SOQ 22-045 | Resolution No. 140204

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 |
| | | 24 TOTAL |

* 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. N/A | | |
| 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:

BFM 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:

- *Orange Lane Drainage Pump Station Project (Drainage Mapping), Grand Isle, Jefferson Parish, LA*
- *Coventry Drainage Pump Stations, Jefferson Parish, LA*
- *North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA*
- *Westwego Drainage Pump Station No. 1, Jefferson Parish, LA*
- *Fulton Street Pump Station, Jefferson Parish, LA*
- *Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA*
- *Harvey Canal Subdivision Drainage Project, Harvey, Jefferson Parish, LA*
- *Taft Park Pump Station Pump Station and Drain Line Path, Jefferson Parish, LA*
- *Parish Line Pump Station No. 5, Kenner, Jefferson Parish, LA*
- *Morton & Ingrid Pump Station, Jefferson Parish, LA*
- *Emergency Generators: Lift Stations and Helios & West Napoleon Pump Stations, Jefferson Parish, LA*
- *Taft Park Pump Station and Drain Line Path, Jefferson Parish, LA*
- *Emergency Generators at 13 Pump Station Sites, Jefferson Parish, LA*
- *Paillet Pump Station Access Road and Drainage Improvements, Jefferson Parish, LA*
- *Clearview Drainage Pump Station and St. Peter's Ditch, Jefferson Parish, LA*
- *Upper Kraak Pump Station, Jefferson Parish, LA*
- *Parish Line Pump Station (Pump Station No. 5), Jefferson Parish, LA*
- *Estelle Pump Station Survey Update, Jefferson Parish, LA*
- *Parish-Wide Safe House Program - Cousins PS Safe House, JPPW 2003-022-PS, Jefferson Parish, LA*
- *Parish-Wide Safe House Program - Duncan PS Safe House, JPPW 2003-022-PS, Jefferson Parish, LA*
- *Parish-Wide Safe House Program - Elmwood PS Safe House, JPPW 2003-022-PS, Jefferson Parish, LA*
- *Parish-Wide Safe House Program - Suburban PS Safe House, JPPW 2003-022-PS, Jefferson Parish, LA*
- *Parish-Wide Safe House Program - Canal Street PS Safe House, JPPW 2003-022-PS, Jefferson Parish, LA*
- *Parish-Wide Safe House Program - Bonnabel PS Safe House, JPPW 2003-022-PS, Jefferson Parish, LA*
- *Parish-Wide Safe House Program - Parish Line PS Safe House, JPPW 2003-022-PS, Jefferson Parish, LA*
- *Parish-Wide Safe House Program - Hero PS Safe House, JPPW 2003-022-PS, Jefferson Parish, LA*
- *Parish-Wide Safe House Program - Estelle PS No. 2 Safe House, JPPW 2003-022-PS, Jefferson Parish, LA*
- *Drainage Pump Station, West Esplanade and 17th Street Canals, Jefferson Parish, LA*
- *Westwego Pump Station No. 2, Jefferson Parish, LA*
- *Canal "D" Drainage Improvements, Westwego Pump Station Nos. 1 & 2, Jefferson Parish, LA*
- *Parish-Wide Safe House Program - Planters Pump Station Safe House, Jefferson Parish, LA*
- *Estelle Pump Station No. 2, Jefferson Parish, LA*
- *Lake Cataouatche Pump Station, Jefferson Parish, LA*
- *Storm Proofing, Ames & Duncan Drainage Pump Stations, Jefferson Parish, LA*
- *Bayou Segnette Fronting Protection/New Pump Station, Westwego, Jefferson Parish, LA*
- *Survey Update of the Marrero Pump Station, Marrero, Jefferson Parish, LA*
- *Effluent Pump Station & Structures at Harvey Wastewater Treatment Plant, 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:

B_FM 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)

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)

Fulton Street Pump Station, Jefferson Parish, LA. BFM Corporation provided boundary with topographic survey for the Fulton Street Pump Station project. The scope of services included establishing horizontal control, setting Temporary Benchmarks, and plotting the location of improvements & topographic elements (man-made and natural). BFM also determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established. For the topographic survey, spot elevations did not exceed a 25-foot grid within the Limits of Survey and included bottom of canal elevations along adjacent wall. (\$11,890 (fee); 2017)

North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA. Project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3 point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits. (\$6,870 (fee); 2019)

Westwego Drainage Pump Station No. 1, Jefferson Parish, LA. BFM Corporation provided services for a Limited Topographic Survey at the project site, Westwego Drainage Pump No. 1. The scope of services first re-established Site Horizontal and Vertical control, as these were established as part of a previous BFM project (BFM No. 9730). Services next included locating existing improvements within the designated Limits of Survey, taking elevations and cross sections, and verification of piping and utilities. (\$4,725 (fee); 2018)

Harvey Canal Subdivision Drainage Project, Harvey, 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. (\$13,590 (fee); 2018)

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.

Taft Park Pump Station and Drain Line Path, Jefferson Parish, LA. BFM provided topographic surveying services for the pump station and drain line path at the Taft Park Pump Station site. (\$48,719 (fee); 2009)

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)

Morton & Ingrid Pump Station, Jefferson Parish, LA. BFM executed a topographic survey, beginning at the Morton & Ingrid Pump Station, with said survey running along Morton Street to Elizabeth Street then continuing along Elizabeth Street towards West Napoleon Avenue and ending at the Elizabeth Street Pump Station. (\$27,500 (fee); 2012)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

John Philip Thayer (continued)

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)

Drainage Pump Station, Veterans North & South, Right-of-Way, 17th Street Canal, Jefferson Parish, LA. BFM prepared a topographic survey (with right of way & underground utilities locations) for this proposed pump station project. (\$26,540 (fee); 2014)

Chateau Transfer Pump Station to Canal 13, City of Kenner, LA. BFM provided topographic surveying services for this Kenner Force Main project, which included the Chateau Transfer Pump Station to Canal No. 13 along the Duncan Canal. (\$23,953 (fee); 2014)

Taft Park Pump Station Pump Station and Drain Line Path, Jefferson Parish, LA. BFM executed Topographic Surveying services involving location & elevations of the drainage structures for monitoring of the Taft Park Pump Station. The survey encompassed the area extending from 33rd Street (Vernon Street) to West Napoleon Avenue. The scope included establishing a project baseline that could be recovered for construction; elevations & spot elevations, and; cross sections. The survey also plotted the location of improvements within the designated limits of survey. (\$23,531 (fee); 2009)

Clearview Drainage Pump Station and St. Peter's Ditch, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$17,721 (fee); 2009)

Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA. BFM Corporation executed a Route Topographic Survey for the Allo Street project area, which extended from 4th Street to 6th Street. A baseline was established along the centerline of Allo Street, with Temporary Benchmarks at each intersection along the route. Cross sections taken on a 25 ft. grid. Existing improvements were located within the designated Limits of Survey, as were visible above-ground and underground utilities, piping, and natural features including trees and shrubbery. (\$12,855 (fee); 2019)

Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA. BFM Corporation provided boundary and topographic surveying services for the project. The scope of services included obtaining available title data, supplemented with courthouse research. BFM located property corners to establish rights-of-way, setting a closed traverse around the site, establishing Temporary Benchmarks (TBM), taking elevations, and plotting the location of improvements and topographic features, both natural and man-made. The scope of services included producing cross sections and plotting spot elevations on paving or other hard surfaces. (\$11,905 (fee); 2016)

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).

North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA. Project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3 point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits. (\$6,870 (fee); 2019)

Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA. BFM Corporation executed a Route Topographic Survey for the Allo Street project area, which extended from 4th Street to 6th Street. A baseline was established along the centerline of Allo Street, with Temporary Benchmarks at each intersection along the route. Cross sections taken on a 25 ft. grid. Existing improvements were located within the designated Limits of Survey, as were visible above-ground and underground utilities, piping, and natural features including trees and shrubbery. (\$12,855 (fee); 2019)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

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

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)

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 Corporation provided Route Topographic Surveying for this Drainage Evaluation Project (PW 2018-024-DR) in Jefferson Parish. 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 (ROW) of Causeway Boulevard to easterly apparent R/W 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)

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)

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. All information associated with the lift station was obtained by BFM; this included top of casting elevation, pipe size/type, direction, and invert elevations. BFM also provided the Finished Floor Elevation of the lift station building and elevation of the electrical slab associated with it. Deliverables included hardcopy and AutoCAD DWG format files. (\$6,790 (fee); 2019)

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:



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.

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)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Christopher Lemley (continued)

Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA. BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)

Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA. BFM Corporation provided Route Topographic Surveying for this Drainage Evaluation Project (PW 2018-024-DR) in Jefferson Parish. 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 (ROW) of Causeway Boulevard to easterly apparent R/W 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)

Hero Pump Station, Harvey, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$16,380 (fee); 2018)

Improvements to Bayou Segnette Drainage Pump Station No. 1, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$13,650 (fee); 2016)

Harvey Canal Subdivision Drainage Project, Harvey, 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. (\$13,590 (fee); 2018)

Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA. BFM Corporation executed a Route Topographic Survey for the Allo Street project area, which extended from 4th Street to 6th Street. A baseline was established along the centerline of Allo Street, with Temporary Benchmarks at each intersection along the route. Cross sections taken on a 25 ft. grid. Existing improvements were located within the designated Limits of Survey, as were visible above-ground and underground utilities, piping, and natural features including trees and shrubbery. (\$12,855 (fee); 2019)

Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA. BFM Corporation provided boundary and topographic surveying services for the project. The scope of services included obtaining available title data, supplemented with courthouse research. BFM located property comers to establish rights-of-way, setting a closed traverse around the site, establishing Temporary Benchmarks (TBM), taking elevations, and plotting the location of improvements and topographic features, both natural and man-made. The scope of services included producing cross sections and plotting spot elevations on paving or other hard surfaces. (\$11,905 (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.

Westwego Drainage Pump Station No. 1, Jefferson Parish, LA. BFM Corporation provided services for a Limited Topographic Survey at the project site, Westwego Drainage Pump No. 1. The scope of services first re-established Site Horizontal and Vertical control, as these were established as part of a previous BFM project (BFM No. 9730). Services next included locating existing improvements within the designated Limits of Survey, taking elevations and cross sections, and verification of piping and utilities. (\$4,725 (fee); 2018)

Chateau Transfer Pump Station to Canal 13, City of Kenner, LA. BFM provided topographic surveying services for this Kenner Force Main project, which included the Chateau Transfer Pump Station to Canal No. 13 along the Duncan Canal. (\$23,953 (fee); 2014)

Effluent Pump Station & Structures at Harvey Wastewater Treatment Plant, Jefferson Parish, LA. BFM provided surveying services to locate the effluent pump station and all structures for a section of the Harvey WWTP in Jefferson Parish. The project also included all necessary topographic surveying services. (\$2,418 (fee); 2009)

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.

Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA. The project consists of a new storm water pumping station in Grand Isle, Louisiana. Scope 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)

Parish Line Pump Station No. 5, Kenner, Jefferson Parish, LA. BFM's surveying services included setting control points (recover existing control references) and verification of existing control (horizontal & vertical values on new control points). (\$2,175 (fee), 2018)

Harvey Canal Subdivision Drainage Project, Harvey, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the project; the full scope included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$13,590 (fee); 2018)

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:



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:

Fulton Street Pump Station, Jefferson Parish, LA. BFM Corporation provided boundary with topographic survey for the Fulton Street Pump Station project. The scope of services included establishing horizontal control, setting Temporary Benchmarks, and plotting the location of improvements & topographic elements (man-made and natural). BFM also determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established. For the topographic survey, spot elevations did not exceed a 25-foot grid within the Limits of Survey and included bottom of canal elevations along adjacent wall. (\$11,890 (fee); 2017)

Hero Pump Station, Harvey, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$16,380 (fee); 2018)

Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA. BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)

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 & Instrumentman for over 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.

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)

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)

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.

Morton & Ingrid Pump Station, Jefferson Parish, LA. BFM executed a topographic survey, beginning at the Morton & Ingrid Pump Station, with said survey running along Morton Street to Elizabeth Street then continuing along Elizabeth Street towards West Napoleon Avenue and ending at the Elizabeth Street Pump Station. (\$27,500 (fee); 2012)

Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA. BFM Corporation provided boundary and topographic surveying services for the project. The scope of services included obtaining available title data, supplemented with courthouse research. BFM located property corners to establish rights-of-way, setting a closed traverse around the site, establishing Temporary Benchmarks (TBM), taking elevations, and plotting the location of improvements and topographic features, both natural and man-made. The scope of services included producing cross sections and plotting spot elevations on paving or other hard surfaces. (\$11,905 (fee); 2016)

Improvements to Bayou Segnette Drainage Pump Station No. 1, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$13,650 (fee); 2016)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Shaun Clements
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); 7 years total (2015)

Education: Degree(s)/Year/Specialization:

Associates of Applied Sciences, 2015, Computer Drafting and Design (ITT)

Active registration: Year first registered/discipline:

NA

Other experience and qualifications relevant to the proposed Project:

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 Route Topographic Surveying 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 (ROW) of Causeway Boulevard to easterly apparent R/W 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)

Bonnabel Boulevard Bike Path, Metairie, Jefferson Parish, LA. BFM provided surveying services for this bicycle path along Bonnabel Boulevard, extending from Veterans Memorial Boulevard to Lake Pontchartrain, in Metairie, LA. The scope included a Route Topographic Survey (plan only). (\$37,590 (fee); 2020)

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.

North Arnout Drainage Pump Station Improvements, Jefferson Parish, LA. Project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3 point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits. (\$6,870 (fee); 2019)

Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA. BFM Corporation executed a Route Topographic Survey for the Allo Street project area, which extended from 4th Street to 6th Street. A baseline was established along the centerline of Allo Street, with Temporary Benchmarks at each intersection along the route. Cross sections taken on a 25 ft. grid. Existing improvements were located within the designated Limits of Survey, as were visible above-ground and underground utilities, piping, and natural features including trees and shrubbery. (\$12,855 (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:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

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:

Ms. Hoffman serves as BFM's primary researcher and has more than 25 years of experience in this field. She is extremely knowledgeable with regards with researching in various parishes and cities.

Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA. BFM Corporation provided boundary and topographic surveying services for the project. The scope of services included obtaining available title data, supplemented with courthouse research. BFM located property corners to establish rights-of-way, setting a closed traverse around the site, establishing Temporary Benchmarks (TBM), taking elevations, and plotting the location of improvements and topographic features, both natural and man-made. The scope of services included producing cross sections and plotting spot elevations on paving or other hard surfaces. (\$11,905 (fee); 2016)

Fulton Street Pump Station, Jefferson Parish, LA. BFM Corporation provided boundary with topographic survey for the Fulton Street Pump Station project. The scope of services included establishing horizontal control, setting Temporary Benchmarks, and plotting the location of improvements & topographic elements (man-made and natural). BFM also determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established. For the topographic survey, spot elevations did not exceed a 25-foot grid within the Limits of Survey and included bottom of canal elevations along adjacent wall. (\$11,890 (fee); 2017)

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>Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA</p> <p>AIMS Group, Inc. 4421 Zenith Street Metairie LA 70001</p> <p>Lowell Pitré, P.E., 504-887-7045 ljp@aimsgroupinc.com</p> | <p>The project consists of a new pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle. Scope 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.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2020 August | N/A | \$32,280 (fee) |

PROJECT NO. 2

| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
|--|--|--------------------------------------|
| <p>Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA</p> <p>GEC, Inc. 3445 N Causeway Blvd Ste 401 Metairie LA 70002-3779</p> <p>Jerome Lohmann, 504-207-6926 jlohmann@gecinc.com</p> | <p>BFM provided Route Topographic Surveying for this Drainage Evaluation Project (PW 2018-024-DR). Scope 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 (ROW) of Causeway Boulevard to easterly apparent R/W of Focus Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2020 May | N/A | \$18,350 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 3 | | |
|--|--|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA</p> <p>Meyer Engineers Ltd. 4937 Hearst St. Ste. B Metairie LA 70001</p> <p>Ana Theriot, P.E., 504-885-9892</p> | <p>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.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2020 March | N/A | \$7,980 (fee) |

| PROJECT NO. 4 | | |
|--|---|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Coventry Drainage Pump Stations, Jefferson Parish, LA</p> <p>ECM Consultants, Inc. 1301 Clearview Pkwy Ste 200 Metairie LA 70001</p> <p>Sunina Shrestha, 504-885-4080 SShrestha@ecmconsultants.com</p> | <p>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.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2020 | N/A | \$89,780 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 5 | | |
|---|--|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA</p> <p>Hartman Engineering, Inc. 527 W. Esplanade Ave Suite 300 Kenner LA 70065</p> <p>Rolland A. Mura, 504-466-5667 rmura@harteng.com</p> | <p>Project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3 point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2019 May | N/A | \$6,870 (fee) |

| PROJECT NO. 6 | | |
|---|--|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA</p> <p>Hartman Engineering, Inc. 16563 Airline Hwy Ste A&B Prairieville LA 70769</p> <p>Jared Monceaux, P.E., 225-313-4617 jmonceaux@harteng.com</p> | <p>BFM Corporation executed a Route Topographic Survey for the Allo Street project area, which extended from 4th Street to 6th Street. A baseline was established along the centerline of Allo Street, with Temporary Benchmarks at each intersection along the route. Cross sections taken on a 25 ft. grid. Existing improvements were located within the designated Limits of Survey, as were visible above-ground and underground utilities, piping, and natural features including trees and shrubbery.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2019 April | N/A | \$12,855 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 7 | | |
|--|---|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Westwego Drainage Pump Station No. 1, Jefferson Parish, LA</p> <p>Jefferson Parish Department of Drainage 1221 Elmwood Park Blvd Ste 907 Harahan LA 70123</p> <p>Ben Lepine, 504-736-6759 blepine@jeffparish.net</p> | <p>BFM Corporation provided services for a Limited Topographic Survey at the project site, Westwego Drainage Pump No. 1. The scope of services first re-established Site Horizontal and Vertical control, as these were established as part of a previous BFM project (BFM No. 9730). Services next included locating existing improvements within the designated Limits of Survey, taking elevations and cross sections, and verification of piping and utilities.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2018 May | N/A | \$4,725 (fee) |

| PROJECT NO. 8 | | |
|--|--|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Fulton Street Pump Station, Jefferson Parish, LA</p> <p>Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans LA 70119</p> <p>Tony Moschella, 504-486-5901</p> | <p>BFM Corporation provided boundary with topographic survey for the Fulton Street Pump Station project. The scope of services included establishing horizontal control, setting Temporary Benchmarks, and plotting the location of improvements & topographic elements (man-made and natural). BFM also determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established. For the topographic survey, spot elevations did not exceed a 25-foot grid within the Limits of Survey and included bottom of canal elevations along adjacent wall.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2017 December | N/A | \$11,890 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 9 | | |
|---|--|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA</p> <p>CB&I Coastal, Inc. 2424 Edenborn Ave Ste 450 Metairie LA 70001-6463</p> <p>Gene S. Gillen, P.E., 504-832-4878 gene.gillen@CBI.com</p> | <p>BFM Corporation provided boundary and topographic surveying services for the project. The scope of services included obtaining available title data, supplemented with courthouse research. BFM located property corners to establish rights-of-way, setting a closed traverse around the site, establishing Temporary Benchmarks (TBM), taking elevations, and plotting the location of improvements and topographic features, both natural and man-made. The scope of services included producing cross sections and plotting spot elevations on paving or other hard surfaces.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2016 March | N/A | \$11,905 (fee) |

| PROJECT NO. 10 | | |
|--|--|---|
| Project Name, Location, and Owner's Contact Information: | Nature of Firm's Responsibility: | |
| <p>Harvey Canal Subdivision Drainage Project, Harvey, Jefferson Parish, Louisiana</p> <p>Kyle Associates, LLC 638 Village Lane North Mandeville LA 70471</p> <p>James Powell, 985-727-9377 jpowell@kyleassociates.net</p> | <p>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.</p> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| 2018 May | N/A | \$13,590 (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.

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**, provides services to public & private concerns throughout Louisiana and the Gulf South. For over 40 years, BFM has provided surveying services covering all facets of engineering, construction, and forensics; topographic, and hydrographic, and now offers drone-based surveying and high-definition laser scanning.

BFM Corporation 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 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). Crews are outfitted with Leica TS series robotic total stations, simplifying and expediting projects. Furthermore, BFM has photogrammetry included into our GS18 GPS Receivers that allow our technicians to capture and utilize point cloud data in the field. The tilt functionality built into the GPS receivers allows for shooting without leveling the rod; this greatly increases speed of fieldwork while keeping accuracy and precision intact. BFM's crews are trained to use this equipment to its full potential to maximize efficiency and accuracy 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). At 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.

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 • 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 3 • 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 4 • 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.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 5 • 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 6 • 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 7 • PRIOR SUCCESSFUL COMPLETION OF PROJECTS

For 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)

José A. Gonzales, CAO, City of Kenner
(504-468-4090 | jgonzalez@kenner.la.us)

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)

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.

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: _____

September 6, 2022

Creative Engineering Group, LLC.
TEC Questionnaire



TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ No. 22-045 Woodlake Estates Drainage Improvements - Resolution 140204

B. Firm Name & Address:



201 Highland Park Plaza
Covington, LA 70433

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:

Raymond H. Nolan, II, PE - Owner/Senior Engineer, (985) 249-5706, rnolan@ceg-itl.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.

Raymond H. Nolan, II, PE - Owner/Senior Engineer, (985) 249-5706, rnolan@ceg-itl.com

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

| | | |
|--|--|---|
| <input type="checkbox"/> 1 Administrative | <input type="checkbox"/> Estimators | <input type="checkbox"/> Specification Writers |
| <input type="checkbox"/> Architects (Licensed) | <input type="checkbox"/> Geologists | <input type="checkbox"/> Structural Engineers |
| <input type="checkbox"/> Chemical Engineers | <input type="checkbox"/> Geotechnical Engineers | <input type="checkbox"/> Graduate Engineers |
| <input type="checkbox"/> Civil Engineers | <input type="checkbox"/> Interior Designers | <input type="checkbox"/> Project Managers |
| <input type="checkbox"/> Construction Inspectors | <input type="checkbox"/> Landscape Architects | <input type="checkbox"/> Clerical |
| <input type="checkbox"/> Ecologists | <input type="checkbox"/> Land Surveyor | <input type="checkbox"/> Grant/Funding Specialist |
| <input type="checkbox"/> 1 Electrical Engineers | <input type="checkbox"/> Mechanical Engineers | <input type="checkbox"/> Sanitary Engineers |
| <input type="checkbox"/> Engineer Intern | <input type="checkbox"/> Environmental Engineers | <input type="checkbox"/> Planners |
| <input type="checkbox"/> Professional Land Surveyors | <input type="checkbox"/> 2 CADD | <input type="checkbox"/> 1 Designers |
| | | <input type="checkbox"/> 5 TOTAL |

F. Is this submittal by a JOINT-VENTURE? Please check: YES ___ NO
If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

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

1. N/A

2. N/A

H. Has the JOINT-VENTURE previously worked together? Please Check YES NO

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

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

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

5

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:

Raymond H. Nolan, II, PE
Owner / Senior Engineer

Project Assignment

Electrical Engineering Support

Name of Firm with which associated



Years' experience with this Firm:

>15

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1991 / Electrical Engineering
Master of Science / 1994 / Electrical Engineering

Active registration: Year first registered/discipline

1997 / PE Electrical, State of LA / No. 27697

Other experience and qualifications relevant to the proposed project:

Mr. Nolan is the Owner and Senior Engineer at CEG, LLC. He has over 25 years experience in electrical engineering, including power distribution, emergency generators, lighting and controls, fire alarm systems, telephone and data infrastructure, intercom and security systems.

Mr. Nolan's applicable projects are listed on the following page.

TEC Professional Services Questionnaire

Mr. Nolan has worked on the following sewer projects:

25th Street Canal Drainage Improvements Project (Resiliency District) – Gretna, LA – Provided electrical engineering services on the design for a new pump station with 350 CFS capacity to provide the 25th Street Subdivision residential area drainage in Jefferson Parish.

Cheniere Water Tank Storage – Grand Isle, LA - Provided electrical, lighting, and controls design for a new potable water pump station. Pump station design included powering pumps, powering mechanical equipment, sizing 50 Kw backup generator, and coordinating valve and pump controls, SCADA interface.

Jefferson Parish District Attorney's Second Floor Buildout – Jefferson Parish, LA - Provided electrical engineering services. Created designs for the power and lighting systems as well as special systems required for government and law enforcement offices.

Orleans Levee District Police Station – Orleans Parish, LA – Provided electrical engineering services. Created designs for the power and lighting systems, special systems required for government and law enforcement offices as well as the electrical engineer overseeing the installation of the emergency generator.

Orleans Levee District – 6920 Franklin Ave. – Orleans Parish, LA - Electrical engineer for power and lighting systems as well as special systems required for government offices. Also oversaw the replacement of the existing 1750 kW generator with (2) 800 kW generators in parallel.

Recreation District 1 - Kentwood, LA – Electrical engineer for the design of electrical service as well as the ball field and parking lot lighting.

Hurricane Katrina Damage Repairs, McDermott Hanger - New Orleans, LA - Provided damage assessment services, cost estimates for the scope of work on the electrical and specialty systems to identify damages as well as assess the necessary repairs, and coordinated completion of the FEMA Project Worksheet for damage verification. CEG also provided the construction documents and construction administration services for the repair work.

Repairs to C.F. Rowley School - St. Bernard Parish, LA - Following Hurricane Katrina, provided damage assessment services, cost estimates for the scope of work on the electrical and specialty systems to identify damages as well as assess the necessary repairs, and coordinated completion of the FEMA Project Worksheet for damage verification. CEG also provided the construction documents and construction administration services for the repair work.

Nunez Community College Buildings A & B - St. Bernard Parish, LA - Completed research and additional evaluation of the water damaged electrical equipment. Presented the NEMA documentation demonstrating the need for the additional repair items on the Project Worksheet and was successful in getting the items covered for repair. Reviewed scope and costs to ensure they were aligned with FEMA. CEG then completed the additional construction documents and provided construction administration services.

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>Hurricane Katrina Damage Repairs - McDermott Hanger <i>New Orleans, LA</i></p> <p>RCL Architecture 900 W. Causeway Approach Mandeville, LA 70471, (985) 727-4440</p> | <p>Creative Engineering Group, LLC performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. CEG provided cost estimates to the Architect for repair scope of work.</p> <p>Once scope and costs were aligned with FEMA, CEG completed electrical construction documents for the repair work. Construction Administration included regular site visits to monitor the electrical installation.</p> | |
| Completion Date (Actual or estimated): 03/2009 (Est.) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| | \$2,500,000 (Est.) | \$200,000 (Est.) |
| PROJECT NO. 2 | | |
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Repairs to C.F. Rowley School St. Bernard Parish School Board <i>Chalmette, LA</i></p> <p>Lachin Architects 900 Causeway Approach Mandeville, LA 7 70471 (985) 727-4440</p> | <p>Creative Engineering Group, LLC performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. CEG provided cost estimates to the Architect for repair scope of work. Due to the flood waters all electrical below the ceiling on the first floor was replaced with new. Light fixtures on the first floor were also replaced. First floor circuitry at the ceiling and second floor electrical remained for re-use. FEMA allowed second floor light fixtures to be re-lamped. Life safety systems (ie fire alarm) were replaced and re-located to the second floor. Construction Administration included regular site visits to monitor the electrical installation.</p> | |
| Completion Date (Actual or estimated): 10/2007 (Est.) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| | \$6,500,000 (Est.) | \$1,300,000 (Est.) |

TEC Professional Services Questionnaire

| PROJECT NO. 3 | | |
|---|--|--|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| Nunez Community College Building B Hurricane Katrina Repairs <i>Chalmette, LA</i> Lachin Architects 900 Causeway Approach Mandeville, LA 7 70471 (985) 727-4440 | Creative Engineering Group, LLC performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. Initially, FEMA had allowed a complete replacement of the electrical and special systems due to the heavy damage. At the Design Development stage of the project a new FEMA team came in and provided a revised Project Worksheet which only allowed for repairs to flood damaged items. This did not include all electrical equipment and feeders which had exposure to flood waters. CEG researched and presented NEMA documentation for evaluating water damaged electrical equipment, and was successful in getting additional items covered. Once scope and costs were aligned with FEMA, CEG completed electrical construction documents for the repair work. Construction Administration included regular site visits to monitor the electrical installation. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| | 09/2008 | \$8,900,000 \$323,000 |
| PROJECT NO. 4 | | |
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| | | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| | | |

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. N/A | | |
| 3. N/A | | |
| 4. N/A | | |

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

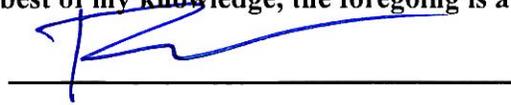
 Creative Engineering Group, LLC is a professional engineering firm based in St. Tammany Parish. Our firm is licensed in the State of Louisiana and Mississippi, and offers a full range of electrical engineering services, including conceptual planning, preparation of construction documents and construction administration, with a highly skilled professional team. Our staff currently consist of five people dedicated to electrical engineering, including a licensed electrical engineer with over 26 years of experience, an electrical designer with over 15 years of experience, two draftsmen and administration. We have extensive experience serving architects, contractors on design build projects, and building owners. Our purpose is to provide the highest quality service and design solutions for our clients.

Creative Engineering Group has experience in evaluating older electrical systems and has performed electrical evaluation assessment reports for clients who are seeking to upgrade electrical systems due to age or code changes. In addition, Creative Engineering Group has performed many damage assessments over the years to help clients evaluate damages to electrical systems due to hurricanes, fire, and flooding.

Our experience give us the ability to trouble shoot electrical issues and spot potential problems early in the design process. We utilize the latest computer aided drafting software, Autocad and Revit. We are dedicated to providing cost effective solutions with an emphasis on energy efficiency and creativity. Our dedication, from the early stages of the project until completion, has resulted in many satisfied clients who have become repeat customers.

(See Additional Pages)

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

Signature:  _____ Print Name: Ray Nolan

Title: Owner Date: 9/14/2022

Additional Information
TEC Questionnaire



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

Name: Public Address:
Burk-Kleinpeter, Inc. P. O. Box 19087
New Orleans, Louisiana 70179

License/Certificate Information w/ Supervision

| License | Status | First Issuance Date | Expiration Date | Supervisor(s) |
|------------|--------|---------------------|-----------------|--|
| EF.0000124 | Active | 09/12/1984 | 09/30/2023 | Mr. Rene Adrian Chopin III # PE.0025174 - Active |

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

Name: Public Address:
Burk-Kleinpeter, P. O. Box 19087
Inc. New Orleans, Louisiana 70179

License/Certificate Information w/ Supervision

| License | Status | First Issuance Date | Expiration Date | Supervisor(s) |
|------------|--------|---------------------|-----------------|---|
| VF.0000024 | Active | 09/12/1984 | 09/30/2023 | Mr. Henry Maurice Picard III # PLS.0004736 - Active |

Self-Certification demonstrating the status of Burk-Kleinpeter, Inc. as a Small Business

Are you a small business eligible for government contracting?

| | | |
|--------------------------------|---|---|
| 541330 Engineering Services | Small Business Size Standards \$16,500,000 annual revenue |  YES |
|--------------------------------|---|---|

| | | |
|--|---|---|
| Exception #1 Military and Aerospace Equipment and Military Weapons | Small Business Size Standards \$41,500,000 annual revenue |  YES |
|--|---|---|

| | | |
|--|---|---|
| Exception #2 Contracts and Subcontracts for Engineering Services Awarded Under the National Energy Policy Act of 1992 | Small Business Size Standards \$41,500,000 annual revenue |  YES |
|--|---|---|

| | | |
|---|---|---|
| Exception #3 Marine Engineering and Naval Architecture | Small Business Size Standards \$41,500,000 annual revenue |  YES |
|---|---|---|

Results derived from the "Measure My Business" tool at www.sba.gov/size demonstrating that Burk-Kleinpeter, Inc. is a "small" business according to the SBA standard for our industry (NAISC codes).

TEC Professional Services Questionnaire

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

Mr. Michael David Chopin

License/Certificate Type - Number Expiration Date
PE.0026797 **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. Henry Maurice Picard III

License/Certificate Type - Number Expiration Date
PE.0022289 **03/31/2023**

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. David Edward Boyd

License/Certificate Type - Number Expiration Date
PE.0035510 **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. Rene Adrian Chopin IV

License/Certificate Type - Number Expiration Date
PE.0042349 **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. Timothy James Koenig

License/Certificate Type - Number Expiration Date
PE.0035079 **03/31/2022**

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. Rene Adrian Chopin III

License/Certificate Type - Number Expiration Date
PE.0025174 **09/30/2023**

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

Mrs. Rebecca Moore Jensen Chopin

License/Certificate Type - Number Expiration Date
PE.0041841 **03/31/2024**

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. Farhad H. Mogharrebi

License/Certificate Type - Number Expiration Date
PE.0027984 **09/30/2024**

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

Ms. Renee Poole

License/Certificate Type - Number Expiration Date
EI.0034097 **09/30/2023**

Status: **Active**

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Mr. Henry Maurice Picard III

License/Certificate Type - Number Expiration Date
PLS.0004736 **03/31/2023**

Status: **Active**

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 |



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Baton Rouge, LA 70809
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Mr. Ralph P. Fontcuberta Jr.

| | |
|-----------------------------------|-----------------|
| License/Certificate Type - Number | Expiration Date |
| PLS.0004329 | 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
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Mr. Chad Mitchell Poche

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

Status: **Active**



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Baton Rouge, LA 70809
Phone (225) 925-6291
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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

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 |



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(LAPELS)
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Baton Rouge, LA 70809
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www.lapels.com

Mr. Chad Mitchell Poche

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

Status: **Active**



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(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 Expiration Date
PE.0038607 **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 Expiration Date
EI.0034718 **03/31/2023**

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. Ralph P. Fontcuberta Jr.

License/Certificate Type - Number Expiration Date
PLS.0004329 **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, appearing to read "Stephanie Hartman", is written over a thin horizontal line.

Stephanie Hartman,
Director, Entrepreneurial Services





Regional Transit Authority

July 28, 2022

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

Dear Ms. Poche:

The Regional Transit Authority (RTA) have received your firm's Small Business Enterprise (SBE) annual affidavit. Based on the information, which you provided, it has been confirmed that your firm continues to meet the eligibility requirements of our program.

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 main 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 purple ink that reads "Adonis C. Expose".

Adonis C. Expose
DBE/SBE Liaison Officer III

2817 Canal Street | New Orleans, Louisiana 70119 | 504-827-8300 | www.RTAforward.org



GULF SOUTH

ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants



CERTIFICATE OF ACCREDITATION



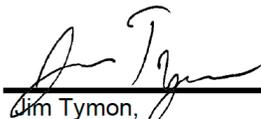
Gulf South Engineering and Testing, Inc.

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).


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



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

(Renewal is Currently in Process)

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 μ 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



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

| | |
|------------------------------------|---|
| Name: | Public Address: |
| Creative Engineering Group, LLC | 201 Highland Park Plaza Covington, Louisiana 70433 |

License/Certificate Information w/ Supervision

| License | Status | First Issuance Date | Expiration Date | Supervisor(s) |
|------------|--------|---------------------|-----------------|--|
| EF.0003373 | Active | 12/06/2005 | 03/31/2024 | Mr. Raymond Henry Nolan II # PE.0027697 - Active |



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 9/15/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Raymond Henry Nolan II
201 Highland Park Plaza
Covington, Louisiana 70433

| | |
|--|---|
|  | LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) |
| | 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com |
| Mr. Raymond Henry Nolan II | |
| License/Certificate Type - Number | Expiration Date |
| PE.0027697 | 09/30/2024 |
| Status: Active | |
| <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> | |

Fold Here

Cut Here

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.