Jefferson Parish
State of Louisiana

JEFFERSON PARISH

SOQ 24-013 Resolution 144203
Routine Engineering Services for Water Projects






BKI BURK-KLEINPETER, INC.
ENGINEERING · PLANNING · ENVIRONMENTAL

18 17 16 BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

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

CEG
CREATIVE ENGINEERING GROUP

June 21
2024

PRESIDENT & CEO
MICHAEL D. CHOPIN, PE

CORPORATE SECRETARY
BRUCE L. BADON, AICP

SENIOR VICE PRESIDENTS
RENE A. CHOPIN, III, PE
HENRY M. PICARD, III, PE, PLS

VICE PRESIDENT
DAVID E. BOYD, PE

BURK-KLEINPETER, INC.
ENGINEERING · PLANNING · ENVIRONMENTAL

2400 VETERANS MEMORIAL BLVD., SUITE 310, KENNER, LA 70062
TELEPHONE (504) 486-5901
WWW.BKIUSA.COM

OVER 100 YEARS OF SERVICE

June 21, 2024

Jefferson Parish Purchasing Department
Mr. Renny Simno, Director
200 Derbigny St., Suite 4400
Gretna, LA 70053

RE: SOQ No. 24-013 Resolution #144203 Routine Engineering for Water Projects

Mr. Simno:
In response to your request for qualifications, Burk-Kleinpeter, Inc., along with 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.

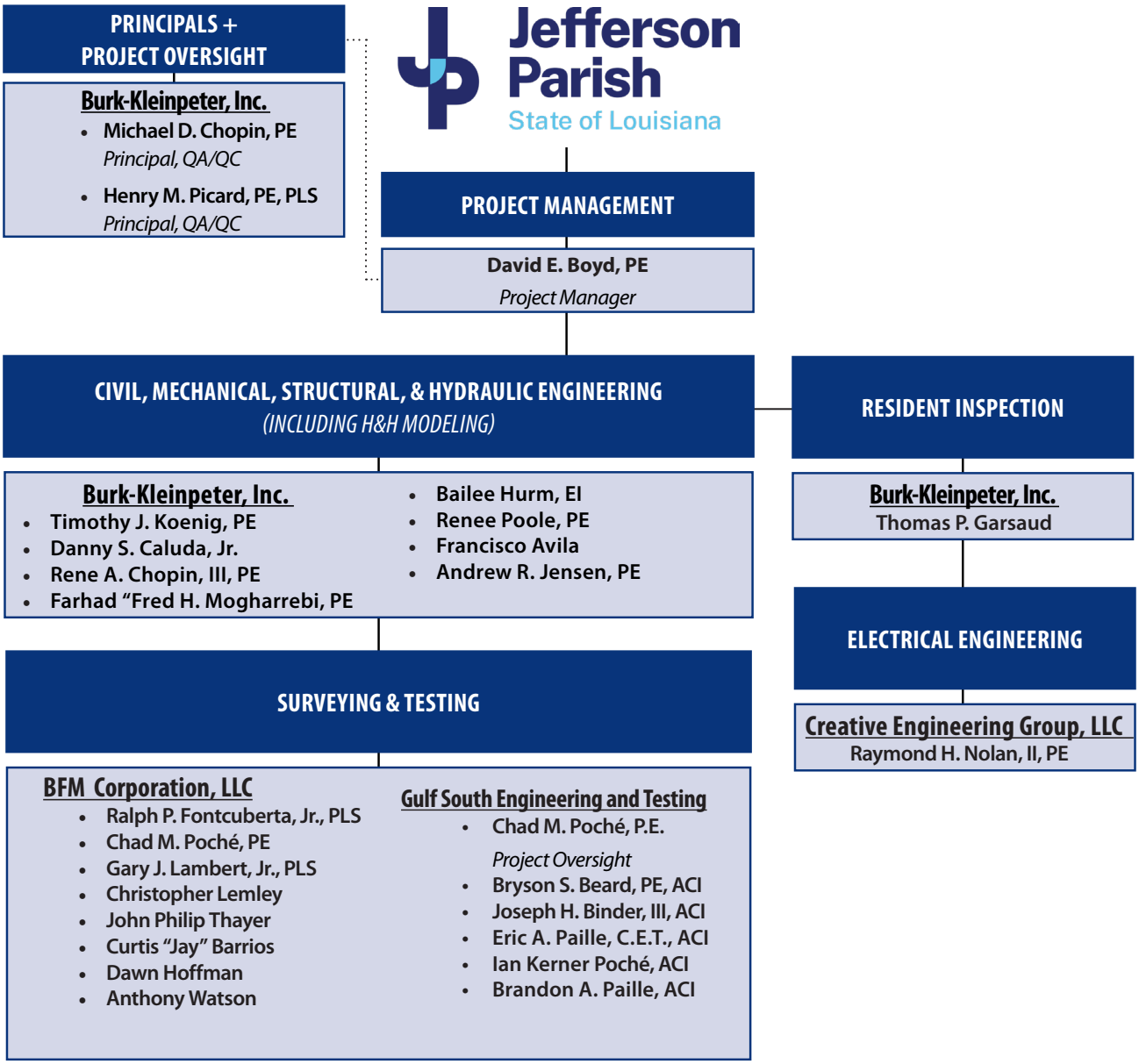
BKI is a full-service small business consulting firm providing professional planning and engineering services to public and private clients for over 110 years. We are fully capable of providing professional services to Jefferson Parish for projects within the scope of Routine Engineering for Water Projects. Our Kenner office will serve as the main project office for this assignment with Henry M. Picard, III, PE, PLS as the professional in charge of the project. As an established firm committed to client satisfaction, we hope to assist the Parish in the successful implementation on assigned projects. 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,

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

ORGANIZATIONAL CHART



Jefferson Parish
State of Louisiana

Statement of Qualifications

Burk-Kleinpeter, Inc.
TEC Questionnaire






BKI BURK-KLEINPETER, INC.
ENGINEERING · PLANNING · ENVIRONMENTAL

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ No. 24-013 Routine Engineering Services for Water Projects - Resolution No. 144203

B. Firm Name & Address:

BKI BURK-KLEINPETER, INC.
ENGINEERING · PLANNING · ENVIRONMENTAL

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) 400-0783, hpicard@bkiusa.com

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

8 Administrative	0 Estimators	0 Specification Writers
0 Architects (Licensed)	0 Geologists	3 Structural Engineers
0 Chemical Engineers	0 Geotechnical Engineers	0 Graduate Engineers
8 Civil Engineers	0 Interior Designers	0 Project Managers
3 Construction Inspectors	0 Landscape Architects	0 Clerical
0 Ecologists	0 Land Surveyor	0 Grant/Funding Specialist
0 Electrical Engineers	0 Mechanical Engineers	0 Sanitary Engineers
1 Engineer Intern	0 Environmental Engineers	0 Planners
0 Professional Land Surveyors	4 CADD /GIS	2 Designers
		29 **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.

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. BFM Corporation, LLC 15 Veterans Memorial Blvd. Kenner, LA 70062	Survey	Yes
2. Gulf South Engineering and Testing, Inc. 15 Veterans Memorial Blvd. Kenner, LA 70062	Geotechnical Testing	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: 9 BFM: 26 Gulf South: 30 CEG: 5

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
Principal / President & CEO

Project Assignment

Principal / QA/QC - LA Registered Professional Engineer (Minimum Requirement No. 1)

Name of Firm with which associated

BKI BURK-KLEINPETER, INC.
ENGINEERING · PLANNING · ENVIRONMENTAL

Years' experience with this Firm:

33

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/President at BKI. He is in charge of personnel, including schedules, staff, budgets, technical review, and account management. He has 28 years of professional engineering experience, and has provided professional consulting focused on a wide range of public works projects. He has served as Project Principal or Project Engineer on numerous water storage, water treatment, and water distribution projects. He is 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.

Mr. Chopin has worked on the following water projects:

Jefferson Parish Westbank Water Towers - *Jefferson Parish, LA* - Providing QA/QC and project oversight for the evaluation, the full bast and paint of both the interior and exterior tank, required safety upgrades, extensive structural repairs as well as bidding assistance, cost estimates, and construction administration during repairs for four (4) elevated water tanks and two (2) ground water tanks ranging in size from 100,000 gallons to 500,000 gallons.

Waterline Improvements Shrewsbury Neighborhood - *Jefferson Parish, LA* - Providing QA/QC and project oversight for the coordination during the design of the replacement of asbestos cement and ductile iron waterlines with C-900 PVC and HDPE (DR11) pipes. Project consists of the construction of 8,900 feet of trench and fill waterlines and 1,350 of directionally drilled waterline.

Bridge City Water Tank - *Bridge City, LA* - Provided project oversight during the engineering design and construction management services for a new 100,000 gallon elevated storage tank, two (2) 200,000 gallon ground tanks.

Harvey (Fairmont) Water Tank - *Harvey, LA* - Provided project oversight during the engineering design and construction management services for a new 150,000 gallon elevated storage tank.

Westwego Water Looping - *Westwego, LA* - Providing oversight for the conceptual and plan design for the LA Department of Health, due to the waterline system's low chlorine content in certain areas. Waterline loops were designed for several locations to remove dead-end lines in the existing system and promote water movement.

Cheniere Water Storage Tank - *Grand Isle, LA* - Provided project QA/QC and guidance for the engineering design and construction management services for a new 1,000,000 gallon ground storage tank and duplex pump station at the Jefferson Parish Water Department's Cheniere facility in Grand Isle, LA.

Rehabilitation of the Fifth Street Water Tower - *Gretna, LA* - Project Principal provided QA/QC and oversight for the development of the engineering plans and specifications; construction cost estimates; and bidding assistance for the rehabilitation of the existing 250,000 gallon water tank located on 5th Street across from the Gretna Water Plant.

Gretna Blvd Water Tower Replacement - *Gretna, LA* - Provided oversight for the preparation of plans and specifications for replacing an elevated 500,000 gallon water tank with a new elevated 500,000 gallon potable water tank, including demolition of the existing facility, new foundation piles, elevated ellipoidal water tank, all required piping for water distribution, site improvements, perimeter fencing and electrical improvements.

St Bernard Water Treatment Plant - *St. Bernard Parish, LA* - Provided oversight for the engineering calculations and mechanical design, product and material selection, and working document production for upgrades to a 12 million gallon per day water purification plant.

Jefferson Parish West Bank Water Storage Tanks Cleansing and Recoating - *Jefferson Parish, LA* - Oversaw the preparation of the study and report for the cleansing and recoating of the interiors and exteriors of Jefferson Parish's West Bank Water Storage Tanks.

Kenner Water Study - *Kenner, LA* - Provided oversight for the feasibility study for the site identification of elevated water tower in Kenner, LA.

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

Marvin Braud Pump Station Improvements - *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 an 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.

Violet Sewer Improvements - *Violet, LA* - Principal provided QA/QC for design services to reduce the effects of rain induced system constrictions in a sanitary sewer system. The design included the construction of four new sanitary sewer pump stations and increased capacity in gravity sewers and new force mains to allow for more efficient collection and transport of sewage during rain events.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Henry M. Picard, III, PE, PLS *Senior Vice President*
Project Assignment
Project Manager (Minimum Requirement No. 2)
Name of Firm with which associated
BKI BURK-KLEINPETER, INC. ENGINEERING · PLANNING · ENVIRONMENTAL
Years' experience with this Firm:
34
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
Other experience and qualifications relevant to the proposed project:
Mr. Picard is a Senior Vice President at BKI. He is in charge of project management, hydraulics, and traffic engineering, including schedules, staff, budgets, technical review, and account management. He has 40 years of professional engineering services experience and has served as Principal, Project Manager, or Project Engineer on numerous projects involving water, sewer, streets, roadways, intersections, transportation, and site development. Mr. Picard holds a Bachelor of Science in Civil Engineering, and is a Registered Professional Engineer in Louisiana and Alabama. He is a Registered Professional Land Surveyor in Louisiana and is also an active member of the American Society of Civil Engineers and the Society of American Military Engineers.

Mr. Picard has worked on the following water projects:

Jefferson Parish Westbank Water Towers - *Jefferson Parish, LA* - Providing QA/QC and project oversight/guidance for the evaluation, the full bast and paint of both the interior and exterior tank, required safety upgrades, extensive structural repairs as well as bidding assistance, cost estimates, and construction administration during repairs for four (4) elevated water tanks and two (2) ground water tanks ranging in size from 100,000 gallons to 500,000 gallons.

Waterline Improvements Shrewsbury Neighborhood - *Jefferson Parish, LA* - Project Manager coordinating the design of the replacement of asbestos cement and ductile iron waterlines with C-900 PVC and HDPE (DR11) pipes. Project consists of the construction of 8,900 feet of trench and fill waterlines and 1,350 of directionally drilled waterline.

Harvey (Fairmont) Water Tank - *Harvey, LA* - Provided project oversight and guidance for the engineering design and construction management services for a new 150,000 gallon elevated storage tank.

Bridge City Water Tank - *Bridge City, LA* - Provided project QA/QC and guidance for the engineering design and construction management services for a new 100,000 gallon elevated storage tank, two (2) 200,000 gallon ground tanks.

Westwego Water Looping - *Westwego, LA* - Providing QA/QC and oversight for the conceptual and plan design for the LA Department of Health, due to the waterline system's low chlorine content in certain areas. Waterline loops were designed for several locations to remove dead-end lines in the existing system and promote water movement.

Cheniere Water Storage Tank - *Grand Isle, LA* - As Principal, provided design oversight and project management for a new 1,000,000 gallon potable water storage tank and variable frequency drive pumps. Project included phased construction and demolition of existing tanks on a very tight footprint at the site.

Rehabilitation of the Fifth Street Water Tower - *Gretna, LA* - Provided oversight to engineering plans and specifications for the rehabilitation of the existing 250,000 gallon water tank located on 5th Street.

Lions Water Treatment Plant Pump Station Intake Project - *St. John the Baptist Parish, LA* - Provided civil 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 in St. John the Baptist Parish.

Jefferson Parish West Bank Water Storage Tanks Cleansing and Recoating - *Jefferson Parish, LA* - Oversaw the preparation of the study and report for the cleansing and recoating of the interiors and exteriors of Jefferson Parish's West Bank Water Storage Tanks.

Soniat Canal Improvements Sauve Road to Midway Ditch – *Jefferson Parish, LA* - As project engineer, developed construction documents including plans and specifications for concrete lined channel improvements to an arterial canal and relocation of 36" and 42" pre-stressed concrete water lines with canal crossing.

25th Street Canal Drainage Improvements - *Gretna, LA* - Principal provided QA/QC oversight for the design of alternate stormwater 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.

Jefferson Parish Rosethorne Sewage Treatment Plant - *Lafitte, LA* - Principal provided design oversight for a new 0.5 MGD average daily flow treatment facility to take the place of an existing Rosethorne WWTP in Lafitte, LA. BKI's design included all process equipment and controls, pumps, piping, and other items to construct a complete and functional WWTP.

Marvin Braud Pump Station Watershed Dredging Evaluation - *Ascension Parish, LA* - Project Manager: Supervised the analysis of open channel drainage network in Ascension Parish, LA, using HEC-HMS and HEC-RAS unsteady flow model. The model was developed from and existing model prepared by the U.S. Army Corps of Engineers and calibrated to the Hurricane Rita rainfall event. After calibration of the model, the model was utilized to evaluate hydraulic effects of dredging drainage channels in the Marvin Braud PS Basin and that effect on the existing pump station capacity.

Maplewood Area Drainage – *Harvey, LA* - Provided project supervision and subconsultant coordination for the development of construction drawings and specifications for the installation of 9,100 linear feet of stormwater culverts, 33 junction boxes, 80 catch basins, and 3,500 square yards of paving.

St. John the Baptist Master Drainage Plan – *St. John the Baptist Parish, LA* - Managed the preparation of a Master Drainage Plan for a portion of the eastbank of St. John the Baptist Parish.

New Anna Street and Cardinal Drive Lift Station - *Slidell, LA* - Principal on project to demolish / replace an existing pump station with a new station in the City's right-of-way along Anna Street. BKI provided the plans and specifications for the design of the station slab, vault slab, and control panel support. BKI's services included the design of the station slab, vault slab, and control panel support. The Cardinal Drive Lift Station was above grade in a residential neighborhood. Provisions will be in place for connecting an emergency generator.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
David E. Boyd, PE *Vice President/Civil Engineer*
Project Assignment
Civil and Hydraulic Engineer (Minimum Requirement No. 3)
Name of Firm with which associated
BKI BURK-KLEINPETER, INC. ENGINEERING · PLANNING · ENVIRONMENTAL
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:
Mr. Boyd is a Vice President in BKI's Civil Engineering Division. Since 2006, Mr. Boyd has provided BKI's public and private clients with professional consulting engineering services for water, sewer, and roadway drainage projects. Mr. Boyd is also proficient in Hydrologic and Hydraulic modeling using HEC-HMS and HEC-RAS as well as SWMM software. Projects of note include several master drainage plans for various parishes; these projects involved analyzing existing conditions and future conditions as well as drainage improvements to alleviate flooding. *Mr. Boyd's applicable projects are listed on the following page.*

Mr. Boyd has worked on the following water projects:

Jefferson Parish Westbank Water Towers - *Jefferson Parish, LA* - Providing project QA/QC, guidance, and facilitating coordination between team members and client for the interior/exterior full blast re-painting, required safety upgrades, extensive structural repairs, and construction management services during repairs for four (4) elevated water tanks and two (2) ground water tanks ranging in size from 100,000 gallons to 500,000 gallons.

Harvey (Fairmont) Water Tank - *Harvey, LA* - Provided project QA/QC and guidance for the engineering design and construction management services for a new 150,000 gallon elevated storage tank.

Westwego Water Looping - *Westwego, LA* - Providing QA/QC and oversight during the conceptual and plan design for the LA Department of Health, due to the waterline system's low chlorine content in certain areas. Waterline loops were designed for several locations to remove dead-end lines in the existing system and promote water movement.

Bridge City Water Tanks Rehabilitation - *Bridge City, LA* - Providing Project Management of the construction documents to ensure accuracy in creation of bid documents for the rehabilitation to an elevated 100,000 gallon and two ground 200,000 gallon water tanks. The rehabilitation includes full exterior blast-coating; structural repairs; and painting the new Jefferson Parish logo on the exterior.

Jefferson Parish West Bank Water Storage Tanks Cleansing and Recoating - *Jefferson Parish, LA* - Project Manager for the preparation of the study and report for recoating, cleansing, and repairing structural deficiencies deemed necessary to maintain the water storage tanks in proper working order in order to continue to provide quality water service for the citizens of Jefferson Parish.

Kenner Water Study - *Kenner, LA* - Provided civil design for the feasibility study for the site identification of elevated water tower in Kenner, LA.

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 stormwater 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 would improve drainage in the Maplewood subdivision, which had historically flooded during intense rainfall events.

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 stormwater infrastructure project within the downtown area. To alleviate localized stormwater flooding issues, the project used green infrastructure improvements along the public right-of-way to meet multiple demands: stormwater 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.

Marvin Braud Drainage Pump Station - *Ascension Parish, 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.

Hancock Street Canal Improvements - *Gretna, LA* - Provided civil engineering services for design and construction administration services associated with the closure of Hancock Street Canal between Kepler Street and Virgil Street.

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.

Stumpf Boulevard Drainage Improvements - *Gretna, LA* - City Engineer / City of Gretna liaison for the installation of a 72-inch drainage pipe in the Stumpf Boulevard Canal. The pipe would provide sufficient capacity to convey storm water while addressing bank erosion. Adjacent travel lanes along Stumpf Boulevard were replaced after the base failed and roadway surface settled or warped.

Belle Chasse Area Master Drainage Plan - *Plaquemines Parish, LA* - Provided civil engineering services for the preparation of a hydrologic and hydraulic study. The Master Drainage Plan will be the basis for infrastructure programming and guidance for residential and commercial developments.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Timothy J. Koenig, PE *Civil Engineer*
Project Assignment
Civil Engineering (Minimum Requirement No. 3)
Name of Firm with which associated
BKI BURK-KLEINPETER, INC. ENGINEERING · PLANNING · ENVIRONMENTAL
Years' experience with this Firm:
20
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2004 / Civil Engineering; Bachelor of Science / 1998 / Microbiology
Active registration: Year first registered/discipline
2010 / 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 with 22 years of experience. He holds a 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. 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. *Mr. Koenig's applicable projects are listed on the following page.*

Mr. Koenig has worked on the following water projects:

Jefferson Parish Westbank Water Towers - *Jefferson Parish, LA* - Worked with coating inspection expert to generate condition report for each water tank. The report included multiple options for coating replacement and structural repairs. Developed bid package based on repair recommendations including drawings and specifications for replacement of existing interior and exterior coating system as well as other repairs to the tanks. Submitted project permit application to the Louisiana Department of Health for approval. There are four (4) elevated water tanks and two (2) ground water tanks ranging in size from 100,000 gallons to 500,000 gallons that are part of this project.

Harvey (Fairmont) Water Tank - *Harvey, LA* - Worked with coating inspection expert to generate condition report for a 150,000 gallon elevated water tank. The report included multiple options for coating replacement and structural repairs to the water tower. Developed bid package based on repair recommendations including drawings and specifications for replacement of existing interior and exterior coating system as well as other repairs to the tank and associated piping. Submitted project permit application to the Louisiana Department of Health for approval.

Bridge City Water Tanks Rehabillitation - *Bridge City, LA* - Project Engineer for creation of construction documents, cost estimates, bidding, construction administration, and inspector supervision for the rehabilitation to an elevated 100,000 gallon and two (2) ground 200,000 gallon water tanks. The rehabilitation includes full exterior blast-coating; structural repairs; and painting the new Jefferson Parish logo on the exterior.

Jefferson Parish West Bank Water Storage Tanks Cleansing and Recoating - *Jefferson Parish, LA* - Provided civil design for the preparation of study and report for the cleansing and recoating of the interiors and exteriors of Jefferson Parish's West Bank Water Storage Tanks.

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.

Master Drainage Plan / Flood Protection Project - *St. James and Ascension Parishes, LA* - Provided civil engineering services for St. James and Ascension Parishes flood protection projects which included developing levee alignments, conceptual pump station, floodgate, and pipeline crossing designs, and cost estimates.

New Cardinal Street Sewer Lift Station Upgrades - *Slidell, LA* - Prepared plans and specifications for the new Cardinal Sewer Lift Station Upgrades. Design included new concrete sidewalks, concrete pavement, new site fencing, new sewer force main, and sheet pile coffer dam.

New Anna Street Sewer Lift Station - *Slidell, LA* - Prepared plans and specifications for the new Anna St. Sewer Lift Station. Design included new concrete sidewalks, concrete pavement, new site fencing, new sewer force main, and sheet pile coffer dam.

Jefferson Parish Rosethorne Sewage Treatment Plant - *Lafitte, LA* - Civil Engineer for a new 0.5 MGD average daily flow treatment facility to take the place of an existing Rosethorne WWTP in Lafitte, LA. BKI's design included all process equipment and controls, pumps, piping, and other items to construct a complete and functional WWTP including rehabilitation of the existing sewer lift station and a new effluent pump station.

Marvin Braud Drainage Pump Station - *Ascension Parish, LA* - Developed preliminary and final plans, specifications, and cost estimates to retrofit stop logs to the intake bays of the existing Marvin Braud Drainage Pump Station near Gonzales, LA. The stop logs will allow for each bay to be individually de-watered to perform maintenance.

West Shore Levees and Floodwalls - *St. Charles, St. John the Baptist, and St. James Parishes, LA* - Provided preliminary design services for a new multi-parish hurricane protection levee project extending from St. Charles to Ascension Parish. A feasibility study had evaluated several alternate alignments and pump station locations for the proposed levee system.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Daniel S. Caluda, Jr. *Associate, Mechanical Designer*
Project Assignment
Mechanical Design
Name of Firm with which associated
BKI BURK-KLEINPETER, INC. ENGINEERING · PLANNING · ENVIRONMENTAL
Years' experience with this Firm:
37
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:
Mr. Caluda is an Associate with major technical responsibility in the Mechanical Engineering Division of BKI. He has 40 years of experience and holds a Bachelor of Science in Petroleum Engineering from Louisiana State University in Baton Rouge. Mr. Caluda's professional experience includes drainage, water and sewer utilities, 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. His design and construction experience has also led to providing supervision for pump station operations as well as training of pump station operators. *Mr. Caluda's applicable projects are listed on the following page.*

Mr. Caluda has worked on the following water projects:

Cheniere Water Storage Tank - *Grand Isle, LA* - Mechanical Designer for the Cheniere project included replacement of the existing booster pump system and the elevated storage tank with a new 500 gallon per minute, variable speed, vertical turbine pump system to provide fire protection water flow for the Town of Grand Isle. The booster system utilized stored water from both an existing 500,000 gallon ground water storage reservoir and the project added additional water storage with another 1,000,000 gallon capacity, which replaced the demolished elevated storage tank. The project also included re-piping the new pumping and storage system into the existing water piping while adding motor actuated valves for remote control of the entire system. Additional aspects of the project included extension of the chemical addition system to the new storage tank and installation of an emergency generator to backup electrical power for the entire site.

Rehabilitation of the Fifth Street Water Tower - *Gretna, LA* - Provided mechanical design for the rehabilitation of the existing 250,000 gallon water tank located on 5th Street.

Gretna Blvd Water Tower Replacement - *Gretna, LA* - Provided Construction Administration for the preparation of plans and specifications for replacing an elevated 500,000 gallon water tank with a new elevated 500,000 gallon potable water tank, including demolition of the existing facility, new foundation piles, elevated ellipoidal water tank, all required piping for water distribution, site improvements, perimeter fencing and electrical improvements.

St Bernard Water Treatment Plant - *St. Bernard Parish, LA* - Provided HVAC design for the plant upgrades, which included replacement of the majority of the existing 12 million gallons per day primary treatment equipment.

St Bernard Raw Water Intake Structure - *St. Bernard Parish, LA* - Provided mechanical design for the St. Bernard raw 18 MGD raw water intake pumping station.

Lions Water Treatment Plant Pump Station Intake Project - *St. John the Baptist Parish, LA* - Provided mechanical 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 in St. John the Baptist Parish.

East Bayou Road Waterline Engineering Design - *Belle Chasse, LA* - Project Designer provided the design of mechanical and civil elements and project management for the extension design of approximately 1,000 linear feet of a 12" waterline.

25th Street Canal Drainage Improvements Project (Resiliency District) - *Gretna, LA* – Completed the mechanical design for the alternate routing of stormwater 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.

Jefferson Parish Rosethorne Sewage Treatment Plant - *Lafitte, LA* - Mechanical Designer for a new 0.5 MGD average daily flow treatment facility to take the place of an existing Rosethorne WWTP in Lafitte, LA. BKI's design included all process equipment and controls, pumps, piping, and other items to construct a complete and functional WWTP including rehabilitation of the existing sewer lift station and a new effluent pump station.

New Cardinal Street Sewer Lift Station - *Slidell, LA* - Mechanical Designer selected pumps, valves, piping, and accessories for the replacement of an existing above grade pump station with a submersible, low profile pump station. He also created the demolition plan. Isolation valves and an emergency pump out will be located above grade for maintenance. Controls and power wiring will be routed to a main control panel above the base flood elevation.

New Anna Street Sewer Lift Station - *Slidell, LA* - Mechanical Designer selected pumps, valves, piping, and accessories for the replacement of an aging, inaccessible pump station. He also created the demolition plan. 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.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
René A. Chopin, III, PE *Senior Vice President / Chief Engineer / Structural Engineer*
Project Assignment
Structural Engineer (Minimum Requirement No. 3)
Name of Firm with which associated
BKI BURK-KLEINPETER, INC. ENGINEERING · PLANNING · ENVIRONMENTAL
Years' experience with this Firm:
36
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
Other experience and qualifications relevant to the proposed project:
Mr. Chopin is a Senior Vice President/Chief Engineer at BKI, in charge of project production, project management, and staff supervision. He has 31 years of professional engineering experience and has provided professional consulting focused on a wide range of highway, roadway, and bridge designs. He has served as Project Manager or Project Engineer on numerous water, wastewater, bridge, roadway, dock, wharf, structural, and infrastructure projects. Mr. Chopin's projects have garnered awards and commendations from the American Concrete Institute Louisiana Chapter and the National Partnership for Highway Quality. Mr. Chopin holds a Bachelor of Science in Civil Engineering, and is a Registered Professional Engineer in Louisiana, Mississippi, Alabama, Florida, and Texas. 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. Mr. Chopin attended the Traffic Control Supervisor Refresher – LA State Specific training course for the American Traffic Safety Services Association in 2023. *Mr. Chopin's applicable projects are listed on the following page.*

Mr. Chopin has worked on the following applicable projects:

Westwego Water Looping - *Westwego, LA* - Providing oversight for the structural aspects of the conceptual and plan design for the LA Department of Health, due to the waterline system's low chlorine content in certain areas. Waterline loops were designed for several locations to remove dead-end lines in the existing system and promote water movement.

Jefferson Parish Westbank Water Towers - *Jefferson Parish, LA* - Sr. Structural Engineer providing QA/QC on the structural repairs necessary as part of the rehabilitation including interior/exterior full blast re-painting, required safety upgrades, extensive structural repairs, and construction management services during repairs for four (4) elevated water tanks and two (2) ground water tanks ranging in size from 100,000 gallons to 500,000 gallons.

Rehabilitation of the Fifth Street Water Tower - *Gretna, LA* - Provided structural engineering for the rehabilitation of the existing 250,000 gallon water tank located on 5th Street.

Cheniere Water Storage Tank - *Grand Isle, LA* - Senior Structural Engineer for the design of the pile supported slab of a 1,000,000 gallon water storage tank as well as provided the structural design for an elevated pump house building and controls room.

St Bernard Raw Water Intake Structure - *St. Bernard Parish, LA* - Provided structural design for the St. Bernard new 18 MGD raw water intake pumping station.

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 in St. John the Baptist Parish.

Jefferson Parish Rosethorne Sewage Treatment Plant - *Lafitte, LA* - Provided QA/QC for a new 0.5 MGD average daily flow treatment facility to take the place of an existing Rosethorne WWTP in Lafitte, LA. BKI's design included all process equipment and controls, pumps, piping, and other items to construct a complete and functional WWTP including rehabilitation of the existing sewer lift station and a new effluent pump station.

New Cardinal Street Sewer Lift Station - *Slidell, LA* - Oversaw the design of the station slab, vault slab, and control panel support at the Cardinal Street Lift Station. Project scope included the demolition of pump system and installation of two (2) new 140 GPM pumps and appurtenances in St. Tammany Parish.

New Anna Street Sewer Lift Station - *Slidell, LA* - Oversaw the design of the station slab, vault slab, and control panel support at the Anna Street Lift Station, a new 350 GPM sewer lift station in St. Tammany Parish.

Willowridge Pump Station - *Luling, 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.

Causeway Blvd. Widening (Airline Drive to West Napoleon Avenue) (PW No. 2017-010-RBP) - *Metairie, LA* - Project Manager is providing traffic engineering and drainage design for the widening of Causeway Boulevard from Airline Drive to West Napoleon Avenue. The project includes widening an existing four lane divided roadway to a six-lane divided roadway, traffic signal upgrades, and drainage improvements along a one mile urban arterial. Drainage design and drainage plan sheets will be developed by BKI. Drainage improvements are subsurface with tie-ins at the existing West Napoleon Avenue box culverts.

Earhart Expressway - Causeway Boulevard Interchange (SPN H.002861) - *Jefferson Parish, LA* - Provided project management design oversight, and mentoring of young engineers for the new interchange between Earhart Expressway (LA 3139) and Causeway Boulevard (LA 3046). Responsibilities included a full inspection of existing bridge and the structural design of the new ramps. Additional, responsibilities included plan development and coordination with LADOTD project managers and utility coordinators on utility relocations, preparing project utility maps for meetings and coordinating requirements of SUE work performed.

Westshore Enhancement Project - *St. James Parish, LA* - Principal providing QA/QC for structural design of a floodgate and a 320 CFS pump station at the 310' Blind River Crossing as well as two additional floodgates in separate locations. Included at the Blind River pump station is the design of a 2050 square foot pile support electrical platform that supports auxiliary equipment such as the 1250 KW generator, transformer, generator dock, HVAC systems and scada tower. The platform also supports a 470 Square foot, single story, CMU block electrical and controls room with concrete roof.

Cousins Pump Station Complex Floodwalls and P.S. Expansion - *Jefferson Parish, LA* **-** Structural Engineer: Provided structural 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.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Farhad H. Mogharrebi, PE *Structural Engineer*
Project Assignment
Structural Engineer (Minimum Requirement No. 3)
Name of Firm with which associated
BKI BURK-KLEINPETER, INC. ENGINEERING · PLANNING · ENVIRONMENTAL
Years' experience with this Firm:
3
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 Senior Structural Engineer with over 27 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 in 1983 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 following applicable projects:

Jefferson Parish Westbank Water Towers - *Jefferson Parish, LA*- Structural Engineer providing design services for the structural repairs necessary as part of the rehabilitation including interior/exterior full blast re-painting, required safety upgrades, extensive structural repairs, and construction management services during repairs for four (4) elevated water tanks and two (2) ground water tanks ranging in size from 100,000 gallons to 500,000 gallons.

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 water storage tank as well as provided the structural design for an elevated pump house building and control room.

Jefferson Parish Rosethorne Sewage Treatment Plant - *Lafitte, 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 monolity and piling support mechanical barrier screens for trash and debris removal, sheet-pile retaining walls, pre-cast concrete access bridge, piling, and approach slabs).

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. Provided construction administration and closeout services for this project.

Pre-BKI Experience

Yellow Bayou and Hanson Canal Flood Protection - *St. Mary Parish, LA* - Work included responsibility for structural design of braced sheet pile wall and a steel swing gate at Hanson Canal, including a pumping station w/ a pre-cast concrete bridge deck, accommodating standard HS-20 loading, and composed of pre-cast pre-stressed concrete piles and prefabricated concrete cap-beams & top deck-slab panels, with all such ancillary and land-side structures as: associated transition levees and all related walkways, equipment and pipe supports.

Whitney-Barataria Pump Station - *New Orleans, LA* - A U.S. Army Corps of Engineer Project; Structural Engineer, PE, responsible for structural design of a designated portion of a pumping station that accommodate for 3-132" horizontal pumps, a new T-Wall and access bridge & operating-dock designed for HS-20 loading incorporated into a monolith structure on pre-cast-pre-stressed concrete and steel pipe piles.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Andrew R. Jensen, PE *Civil Engineer*
Project Assignment
Civil Engineer
Name of Firm with which associated
BKI BURK-KLEINPETER, INC. ENGINEERING · PLANNING · ENVIRONMENTAL
Years' experience with this Firm:
10
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2014 / Civil Engineering
Active registration: Year first registered/discipline
2019 / PE Civil, State of LA / No. 43382
Other experience and qualifications relevant to the proposed project:
Mr. Jensen has performed civil engineering design services for full street reconstruction projects that include pavement, drainage, water and sewer utilities are replaced on these projects. and has extensive experience working on LADOTD highway projects involving interchange design, roadway bridge geometrics, roadway and bridge drainage design, and pedestrian accessibility. Proficient in AutoCAD, Civil 3D, AutoTurn, MicroStation, and InRoads software. *Mr. Avila's applicable projects are listed on the following page.*

Mr. Jensen has worked on the following applicable projects:

Waterline Improvements Shrewsbury Neighborhood - *Jefferson Parish, LA* - Lead civil engineer for a waterline replacement project that replaces nearly 10,000 ft of exisitng 8" and 12" asbestos cement and ductile iron water mains with C-900 PVC and HDPE (DR11) Ina congested commercial area. Design involved restoring roadway pavement, driveways, sidewalks, and other elements disturbed by water main installation, and also includes approximately 1000 ft of directionally drilled water main when open trench installation is impractical.

Westwego Looping - *Westwego, LA* - Project manager for the conceptual and plan design for the LA Department of Health, due to the waterline system's low chlorine content in certain areas. Waterline loops were designed for several locations to remove dead-end lines in the existing system and promote water movement.

25th Street Canal Drainage Improvements Project (Resiliency District) - *Gretna, LA* -Performed roadway design duties for the creation of green infrastructure along the 25th Street Canal. Also performed drainage design duties for the canal and surrounding streets to improve the drainage experienced in the surrounding neighborhood.

City of Gretna Downtown Drainage Improvements - *Gretna, LA* - Provided a technical design and constructability review for a layered green and grey stormwater infrastructure project within the city's downtown area. The project was part of FEMA's LASAFE program, which addresses community resiliency. Using combination of state, CDBG and FEMA Flood Mitigation Grant funding, this project lessened runoff and required pumping capacity while providing recreational aesthetic amenities for residents.

Jefferson Avenue II SELA 2 Canal Improvements - Dryades St. to Constance St. - *New Orleans, LA* - Provided civil engineering services for drainage canal improvements to the Jefferson Avenue Canal between Dryades St. and Constance St. BKI designed the construction of an 8' x 14' reinforced concrete box culvert, approximately 3,600' long.

St. James Parish GOHSEP Coordination for Master Drainage Plan - *St. James Parish, LA* - Provided drainage calculations in the preparation of a Master Drainage Plan for the area in St. James Parish bounded by Hope Canal, the Mississippi River, Panama Canal/Bayou Conway, and Lake Maurepas. The goal of the study was to alleviate flooding in subdivisions and agricultural lands through development of improved outfalls. The Master Drainage Plan resulted in BKI's participation in an Eastbank-wide culvert analysis and design program partly funded by GOHSEP grants.

FEMA Lower Ninth Ward Northwest Group B RR109 (FRC) Reynes Street Improvements - *New Orleans, LA* - Performed all civil engineering design services for urban full street reconstruction projects involving dozens of blocks at a construction cost of tens of millions of dollars. This project contains whole block base/pavement only and waterline/pavement work as well as incidental repairs/replacement work such as isolated road patching/repairs, driveways, sidewalks, curbing, ADA ramps and drainage structure repairs.

Plum Orchard Group C RR136 (FRC) and Group D RR137 (FRC) - *New Orleans, LA* - Performed all civil engineering design services for urban street full reconstruction projects involving 11 blocks at a construction cost of about 6 million dollars. Pavement, drainage, water and sewer utilities are being replaced as part of the projects.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Renee Poole, PE *Civil Engineer Intern*
Project Assignment
Civil/Hydraulic Engineer
Name of Firm with which associated
BKI BURK-KLEINPETER, INC. ENGINEERING · PLANNING · ENVIRONMENTAL
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2019 / Civil and Environmental Engineering
Active registration: Year first registered/discipline
2023 / PE Civil, State of LA / No. 34097
Other experience and qualifications relevant to the proposed project:
Ms. Poole joined BKI after obtaining a degree in Civil and Environmental Engineering. She is proficient in MicroStation V8, AutoCAD, HEC-RAS, and HYDR-WIN. Her professional experience has focused on hydrologic and hydraulic analyses as well as drainage system improvements. 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. *Ms. Poole's applicable projects are listed on the following page.*

Ms. Poole has worked on the following applicable projects:

Westwego Water Looping - *Westwego, LA* - Project includes conceptual and plan design for the LA Department of Health, due to the waterline system's low chlorine content in certain areas. Designed waterline loops in several locations to remove the dead-end lines in the existing system and promote water movement. Responsible for full plan development, specs, and cost estimate.

Waterline Improvements Shrewsbury Neighborhood - *Jefferson Parish, LA* - Responsible for the quality check (QC) on the preliminary through final plans, including the typical sections, plan and profiles, cost estimate, and specifications. Currently in 90% final and in review with Jefferson Parish.

Earhart Expressway (LA 3139) Interchange / Causeway Blvd. (LA3046) (SPN H.002861) - *Jefferson Parish, LA* - Designed the relocation of Jefferson Parish's water and sewer mains for the new interchange between Earhart Expressway (LA 3139) and Causeway Boulevard (LA 3046) in Jefferson Parish. Coordinated with the Parish and DOTD. Handled roadway and drainage design changes due to bent relocations and DOTD comments in final plans, quantity changes, and roadway plan preparation. Answered contractor questions after let date.

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 proposed 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.

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.

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 duties 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.

New Anna Street Sewer Lift Station - *Slidell, LA* - Wrote the civil specifications and quantified the civil items. 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.

Plum Orchard Groups C (RR136) and D (RR137) Street Improvements - *New Orleans, LA* - Completed a full drainage analysis including all necessary calculations, assumptions and reports. Created the roadway profiles to meet city standards and tie-in to the existing locations at multiple intersections and driveways. Created the complete sub-surface network analysis, for water, sewer, and drainage. Worked with the city to determine the final scope of the project. Also, put together the project specifications, cost estimate, and scoping report. Helped to completed the preliminary design, including 3 full submittals.

FEMA Lower Ninth Ward Northwest Group B (FRC) Reynes Street Improvements - *New Orleans, LA* - Reviewed contractor's project and product submittals and assisted in the preparation of plans, specifications, and detailed quality estimates for a full roadway reconstruction project (Reynes Street from North Claiborne Avenue to Florida Avenue) including new roadway pavement, sidewalks, ADA ramps, driveways, drainage infrastructure, gravity sewer, and water utilities.

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.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Bailee L. Hurm, EI *Engineering Intern*
Project Assignment
Civil Engineer Intern
Name of Firm with which associated
BKI BURK-KLEINPETER, INC. ENGINEERING · PLANNING · ENVIRONMENTAL
Years' experience with this Firm:
4
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2019 / Civil and Environmental Engineering
Active registration: Year first registered/discipline
2020 / EI Civil, State of LA / No. 34435
Other experience and qualifications relevant to the proposed project:
Ms. Hurm is a Civil and Environmental Engineering graduate of the University of New Orleans (UNO). She is proficient in AutoCAD Civil 3D (2018) MicroStation V8. She is currently an active member of the American Society of Civil Engineers and the American Concrete Institute. The ASCE New Orleans Branch awarded Ms. Hurm the Distinguished Civil Engineer award in Spring 2019. Her previous work experience includes as an UNO engineering tutor to college students and as an engineering intern at Gaea Consultants, LLC, and Keystone Engineering, Inc. *Ms. Hurm's applicable projects are listed on the following page.*

Ms. Hurm has worked on the following applicable projects:

25th Street Canal Drainage Improvements - *Gretna, LA* - Assisted in roadway and drainage design for the creation of green infrastructure and to improve drainage along the 25th Street Canal and surrounding streets.

St. Charles Parish West Bank Hurricane Protection System (AKA Upper Barataria Risk Reduction Project) - Task Order 4-A (CPRA 002.HP.06) - *St. Charles Parish, LA* – Assisted in grant application processes to provide funding for construction. BKI's duties included the preparation of plans and specifications, bidding assistance, construction administration, and permitting. This project is a Louisiana Watershed Initiative Coordination project in conjunction with the Louisiana Coastal Projection and Restoration Authority (CPRA) and the US Army Corps of Engineers.

St. James Interior Drainage (Matherne, David, Woods Canal) - *St. James Parish, LA* - Assisted in construction administration for St. James drainage improvements, reviewing contractor project and product submittals.

Rural Bridges Replacement Initiative, Phase 1 - *Various Parishes, LA* - Provided geometric, roadway, and drainage design elements as part of the construction document development to replace 33 bridges on the State Highway System and local roadways in Districts 03, 07, 61, and 62.

Earhart Expressway - Causeway Boulevard Interchange (SPN H.002861) - *Jefferson Parish, LA* - Aided in roadway design and plan development for the new interchange between Earhart Expressway (LA 3139) and Causeway Boulevard (LA 3046) in Jefferson Parish. This project includes a full interchange providing all directions of movement between the two corridors. The interchange fit within a very compact footprint with very unique geometric challenges. The interchange features seven new ramps which include at-grade roadways and bridge structures.

Reynes Street Improvements-FEMA Lower Ninth Ward NW - Group B RR109 - *New Orleans, LA* - Reviewed contractor's project and product submittals. Conducted bi-weekly progress meetings and coordinated with the contractor and the city on pay applications and field/plan changes. Assisted in the resolution of unforeseen utility conflicts.

Plum Orchard Groups C (RR136) and D (RR137) Street Improvements - *New Orleans, LA* - Completed a full drainage analysis including all necessary calculations, assumptions and reports. Created the roadway profiles to meet city standards and tie-in to the existing locations at multiple intersections and driveways. Created the complete sub-surface network analysis, for water, sewer, and drainage. Worked with the city to determine the final scope of the project. Also, put together the project specifications, cost estimate, and scoping report. Helped to completed the preliminary design, including 3 full submittals.

Plaquemines Parish Sheriff's Shooting Range Electrical Platform - *Plaquemines Parish, LA* – Designed a platform to be structurally sound against dead loads from electrical equipment as well as wind loads and live loads using a combination of STAAD and hand calculations. Designed all bolted connections.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Francisco Avila *Civil Engineer Intern Candidate*
Project Assignment
Civil Engineer Intern Candidate
Name of Firm with which associated
BKI BURK-KLEINPETER, INC. ENGINEERING · PLANNING · ENVIRONMENTAL
Years' experience with this Firm:
1.5
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2021 / Civil Engineering
Active registration: Year first registered/discipline
N/A
Other experience and qualifications relevant to the proposed project:
Mr. Avila joined BKI after obtaining a degree in Civil Engineering. He is assisting our engineering department with engineering deisgn tasks as well as inspections. *Mr. Avila's applicable projects are listed on the following page.*

Mr. Avila has worked on the following applicable projects:

Bridge City Water Tanks Rehabilitation - *Bridge City, LA* - On site inspector for duration of project. Logged daily contractor activities and coordinated communication between the engineer and contractor.

Waterline Improvements Shrewsbury Neighborhood - *Jefferson Parish, LA* - Responsible for coordinating with all utility companies in the project area limits, meeting with utility company reps out in project field, and assisted with designing water line and choice of placement. This project replaces nearly 10,000 ft of existing 8" and 12" asbestos cement and ductile iron water mains with C-900 PVC and HDPE (DR11) in a congested commercial area. Design involved restoring roadway pavement, driveways, sidewalks, and other elements disturbed by water main installation, and includes approximately 1000 ft of directionally drilled water main when open trench installation is impractical.

Westwego Water Looping - *Westwego, LA* - Assisted in completion of design of waterline as well as assisted in accumulating quantities. Project includes conceptual and plan design for the LA Department of Health, due to the waterline system's low chlorine content in certain areas. Designed waterline loops in several locations to remove the dead-end lines in the existing system and promote water movement. Responsible for full plan development, specs, and cost estimate.

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:
Westbank Water Storage Tanks *Jefferson Parish, LA* Sidney Basley, III Department of Water 1221 Elmwood Park Boulevard Harahan, LA 70123 (504) 655-2628	Jefferson Parish has several types of water tanks that require varying degrees of rehabilitation (steel, pre-stressed concrete, ground storage, etc.) or replacement. BKI, working with a water tank inspection specialist, evaluated ten (10) water tanks on the West bank and utilized the findings to coordinate with Jefferson Parish to prepare contract documents for the recoating, cleansing, and repair of structural deficiencies deemed necessary to maintain the water storage tanks in proper working order and continue to provide quality water service to the citizens of Jefferson Parish. Additional services included bidding assistance, record drawings, and supplemental services, including field/resident inspections for cleansing and recoating the tank interiors and exteriors. Below are key water storage tank projects that make up the several bid packages that were part of this contract since all tanks could not be taken out of service simultaniously: **Bridge City Water Tank Rehabilitation**: The first water tank complex to be selected for rehabilitation was the Bridge City Water Tanks. The facility includes an elevated 100,000-gallon water tank that requires full blast-coating on the tank's interior and exterior. The facility also consists of a ground 200,000-gallon water tank that requires full blast-coating on the tank's exterior. Both tanks need structural repairs, and the new Jefferson Parish logo was also painted on the surface of the tanks. **Westbank Water Storage Tanks & Towers:** BKI prepared plans and specifications for bidding, construction administration, record drawings, coating, and resident inspection for six tanks that require full blast-coating on the interior and exterior of the tanks, as well as structural repairs. The new Jefferson Parish logo will be painted on the tank exteriors. Included are: **Harvey (Fairmont St.) & Patriot St. Water Tanks** each are 500,000 gallon-elevated; **Marrero Rd. & Wall Blvd. Water Tanks** each are 300,000 gallon -ground; and the Lafitte **Water Tank** 500,000 gallon ground.

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	**Work for which Firm was Responsible:**
Ongoing	$11,257,250 (Constr.)	$11,257,250 (Constr.)

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
Cheniere Water Storage Tank *Grand Isle, LA* Sidney Bazley, III Department of Water 1221 Elmwood Park Boulevard Harahan, LA 70123 (504) 655-2628	The Jefferson Parish Government contracted with BKI to provide Engineering & Design and Construction Management services for a new ground water storage tank and duplex pump station at the Jefferson Parish Water Department's Cheniere facility in Grand Isle, LA. The Cheniere project included replacement of the existing booster pump system and the elevated storage tank with a new 500 gallon per minute, variable speed, vertical turbine pump system to provide fire protection water flow for the Town of Grand Isle. The booster system utilized stored water from both an existing 500,000 gallon ground water storage reservoir and the project added additional water storage with another 1,000,000 gallon capacity, which replaced the demolished elevated storage tank. The project also included re-piping the new pumping and storage system into the existing water piping while adding motor actuated valves for remote control of the entire system. Additional aspects of the project included extension of the chemical addition system to the new storage tank. Valves and chemical system will be controlled by SCADA from the Parish Water Department. Design also included pre-cast/pre-stressed concrete pilings for foundational support, a stand-alone masonry station building with a cast-in-place roof, and a generator and related components for emergency power. Plans also included demolition and removal of the existing elevated water tank at the project site. BKI also provided construction management services for the project and coordinated topographic surveying and geotechnical investigations, as well as resident inspection services.

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	**Work for which Firm was Responsible:**
06/2023 (Est.)	$5,370,000 (Est. constr.)	$5,370,000 (Est. constr.)

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Rehabilitation of the Fifth Street Water Tower *Gretna, LA* Ron Johnson City of Gretna Department of Utilities 740 2nd Street Gretna, LA 70053 (504) 363-1540	The City of Gretna contracted with BKI to provide engineering plans and specifications for the rehabilitation of the existing 250,000 gallon water tank located on 5th Street across form the Gretna Water Plant. After reviewing the exterior and interior coating conditions per the water tank inspection reports conducted by third party inspectors, BKI coordinated with local paint suppliers to verify the type of repairs required based on the existing assessment report recommendations. BKI provided contract plans and technical specifications for the recommended repairs to the coating system. In addition to plans and specifications, BKI provided construction cost estimates, as well as assisted with the bidding process, conducting the pre-bid meeting, review of contractor questions, issuing addenda, reviewing bids, and ultimately making a construction contract award recommendation to the City of Gretna. Engineering services were also provided during construction, including coordinating shop drawing and submittal review; review and response to contractor RFIs; review and recommendation of pay applications; conducted periodic site inspections and issued project observation reports; and review of project closeout documents. Record drawings were compiled, reviewed , and issued were provided to the City of Gretna by BKI for their record files.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
10/2020 (Actual)	$510,211 (Constr.)	$510,211 (Constr.)

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Gretna Blvd Water Tower Replacement *Gretna, LA* Ron Johnson City of Gretna Department of Utilities 740 2nd Street Gretna, LA 70053 (504) 363-1540	Burk-Kleinpeter, Inc. was contracted by the City of Gretna to complete the preparation of plans, specifications, and estimates for replacing the existing elevated 500,000 gallon water storage tank with a new elevated 500,000 gallon potable water storage tank. The project included total demolition of the existing facility, new foundation piles, an elevated ellipsoidal water tank, all required piping to tie into the existing water distribution system, and site improvements including new perimeter fencing, site paving, and drainage. BKI coordinated the removal of existing cellular antennas, electrical rooms, and Gretna Police Department telecommunications with the contractor and the firms involved. The top of the new tank is 165 feet above natural ground elevation. Electrical improvements included a new wireless transmitter to transmit water pressure readings to the operations personnel at the Gretna Water Treatment Plant, and area lighting of the finished site.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
12/2013 (Actual)	$1,651,290 (Constr.)	$1,651,290 (Constr.)

PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
St. Bernard Water Treatment Plant *St. Bernard Parish, LA* Matthew Falati St. Bernard Parish Department of Public Works 8201 W. Judge Perez Drive Chalmette, LA 70043 (504) 278-4300	St. Bernard Parish selected BKI to design a new 12 MGD water treatment plant. BKI investigated several design alternatives and selected a cost-effective treatment process, then prepared a General Design Memorandum to define the basis for engineering design, to evaluate operation and maintenance requirements, and to determine how to build a new treatment facility on the existing plant site while still operating the existing treatment plant. The plant has three up-flow clarifiers of 435,000 gallons each that provide initial solids removal for raw water from the Mississippi River. Polymer and lime are injected prior to the clarifiers to aid in coagulation. The clarified water is then sent to six rapid sand filters for final treatment - each is equipped with air-assisted cleaning to shorten the time required for backwash and to aid in resettling the filter media. A clearwell pump station was constructed to pump treated water to the existing 10 MG and 3 MG ground storage tanks and is able to provide the water required to backflush the sand filters when required during normal treatment process. A separate filter waste pump station was constructed to transfer flow from the filter backwash process to the existing backwash tank at original Plant No. 1. The pumps in this existing tank were up-sized to handle additional flow from the new plant and return collected filter sediment to the river. As part of the plant, BKI designed a new control/filter building which houses the pipe gallery and sand filters on the first floor, and the control building and plant offices on the second floor. A chemical building was also constructed to contain all of the chemicals processed necessary for plant operation including the chlorine room, polymer room, alum tanks and feed pumps, and the ammonia storage and feed system. Both the control/filter building and the chemical building were designed to withstand sustained winds up to 130 MPH. All of the mechanical equipment for this project is located above the base flood elevation for the plant site to minimize any future flood related damages. Existing high service pumps that supply water to the distribution system were kept in service from the existing Plants 1 and 2, which were rebuilt after Hurricane Katrina. The water plant was constructed under budget despite numerous substantial changes made at the owner's request during construction.

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	**Work for which Firm was Responsible:**
3/2017 (Actual)	$21,842,193 (Constr.)	$9,386,500 (Constr.)

PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
St Bernard Raw Water Intake Structure *St. Bernard Parish, LA* Matthew Falati St. Bernard Parish Department of Public Works 8201 W. Judge Perez Drive Chalmette, LA 70043 (504) 278-4300	BKI was selected by St. Bernard Parish to design a new raw water intake pump station to supply Mississippi River water to the Parish's Water Treatment Plant. The new pump station was located on an elevated platform on the river side of the hurricane protection levee near the existing pump station. This allowed reuse of most of the existing discharge piping. The new pump station had three 7,000 gallon per minute pumps with variable speed drives. This equipment selection enabled pumping capacity to be varied to match system demand for water. A generator was included to power the station when commercial power is not available. New chemical feed lines were also included as part of this project.

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	**Work for which Firm was Responsible:**
10/2012 (Actual)	$4,986,000 (Constr.)	$4,986,000 (Constr.)

<table>
<tr><th colspan="3">PROJECT NO. 7</th></tr>
<tr><th>Project Name, Location and Owner's contact information:</th><th colspan="2">Nature of Firm's Responsibility:</th></tr>
<tr><td>Lions Water Treatment Plant Pump Station Intake Project
St. John the Baptist Parish, LA

Reed Alexander
St. John the Baptist Parish
1811 W. Airline Hwy.
LaPlace, LA 70068
(985) 652-9569</td><td colspan="2">BKI designed and prepared all construction drawings and specifications to address deficiencies in the existing "old" raw water pump station and to provide a redundant source of water to the Lions Water Treatment Plant in St. John the Baptist Parish. The water treatment plant is fed by two raw water pump stations designated as the "old" and the "new" pump stations. During periods of low water in the river, the intake to the old pump station is too shallow to pump river water to the treatment plant. When the river is high, existing pumps are incapable of pumping the flow needed to meet demand from this pump station.
In response, BKI designed a deeper 16" diameter raw water intake line to the "old" pump station, larger dry-pit submersible pumps and a new underground electrical service from the Treatment Plant to the pump station. The larger pumps required a more robust electrical source and careful piping modifications to fit the new equipment into the existing pump station. As the majority of the work will be performed on the north batture of the Mississippi River, BKI filed and received permits from the US Army Corps of Engineers, Louisiana Department of Natural Resources Office of Coastal Management and Ponchartrain Levee District and incorporated their permit requirements into the design of the pump intake piping.</td></tr>
<tr><td rowspan="2">Completion Date (Actual or estimated):

10/2021 (Actual)</td><td colspan="2">Estimated Cost:</td></tr>
<tr><td>Entire Project:</td><td>Work for which Firm was Responsible:</td></tr>
<tr><td></td><td>$1,241,450 (Costr.)</td><td>$1,241,450 (Costr.)</td></tr>
<tr><th colspan="3">PROJECT NO. 8</th></tr>
<tr><th>Project Name, Location and Owner's contact information:</th><th colspan="2">Nature of Firm's Responsibility:</th></tr>
<tr><td>East Bayou Road Waterline Engineering Design
Belle Chasse, LA

Ken Dugas
Plaquemines Parish Government
333 F. Edward Hebert Blvd.
Belle Chasse, LA 70037
(504) 934-6120</td><td colspan="2">BKI was selected by Plaquemines Parish Government to design approximately 1,000 linear feet of 12" waterline. This project included all necessary valves, hydrants, connections, and fittings. The design included the installation of the 12" waterline under the Intracoastal Waterway by the use of the directional drilling method. The project was designed and constructed to provide a looped system connecting the dead end waterline on East Bayou Road with the existing waterline near Concord Road. This project resulted in better pressure to provide the necessary fire flow for the service and water quality by reducing the concerns of water quality depletion which was a previous problem.</td></tr>
<tr><td rowspan="2">Completion Date (Actual or estimated):</td><td colspan="2">Estimated Cost:</td></tr>
<tr><td>Entire Project:</td><td>Work for which Firm was Responsible:</td></tr>
<tr><td>Ongoing</td><td>$680,600 (Est.)</td><td>$680,600 (Est.)</td></tr>
</table>

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Waterline Improvements - Shrewsbury Neighborhood *Jefferson Parish, LA* Red Youssef - Director Jefferson Parish Capital Projects 1221 Elmwood Park Blvd., Suite 906 Jefferson, LA 70123 (504) 736-6833	BKI was selected to provide engineering design, bidding, and construction administration services for replacement of the waterline along L and A Road, Access Road, K and B Road, McDermott Road, and Earhart Expressway. The Department of Water determined a new waterline was necessary to maintain water service in the area impacted from the numerous breaks in the existing waterlines due to aging infrastructure. This new waterline installation project includes all service lines, valves, hydrants, all other related fittings, as well as an removal and replacement of roadway as necessary.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
12/2025 (Estimated)	$6,000,000 (Est. Constr.)	$6,000,000 (Est. Constr.)

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Westwego Looping *Westwegp, LA* Robert Billiot - Mayor City of Westwego 1100 4th Street Westwego, LA 70097 (504) 347-5745	Engineering Services include performing topographic survey, prepare construction documents (to include plan detail sheets, and specifications) provide assistance during advertisement and bidding (to include pre-bid meeting and addenda), prepare bid tabulations, prepare a recommendation to award, prepare Owner/Contractor contract agreements, perform construction administration services (to include construction management, submittals, requests for information, payment applications, periodic site visits, plan modifications, change orders, and project closeout), and record drawings).	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
11/2024 (Estimated)	$2,872,383 (Est. Constr.)	$2,872,383 (Est. Constr.)

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.

BKI **BURK-KLEINPETER, INC., (BKI)** is pleased to submit our Statement of Qualifications Parish of Jefferson in response to your public notice for **SOQ 24-013 Routine Engineering Services for Water Projects.** Founded in 1910, BKI has become one of the leading consulting firms in the southeast region providing professional engineering (civil, structural, mechanical, and electrical) 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.

BKI's 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 of our disciplines with a keen eye toward meeting clients' big-picture needs in an ever-changing environment. **Headquartered in Kenner, BKI has provided engineering services to Jefferson Parish for more than 40 years.** BKI, independently and in coordination with subconsultants, has over 30 years of experience performing a variety of engineering services for water projects in southeastern Louisiana, on the Mississippi Gulf Coast, and in central and coastal Alabama.

(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:** 06/11/2024

A. MINIMUM REQUIREMENTS FOR SELECTION

1. One principal who is a professional engineer who shall be registered as such in Louisiana:

- 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.

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

- *Henry M. Picard, III, PE, PLS,* a Senior Vice President and Civil Engineer, is a Professional in Charge of Project and a licensed, registered professional civil engineer in Louisiana with over 40 years of experience.

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

- *René A. Chopin, III, PE*, a Senior Vice President; Chief Engineer; and Civil Engineer, is a Professional in Charge of Project and a licensed, registered professional civil engineer in Louisiana with over 35 years of experience.
- *David E. Boyd, PE*, a Vice President and Civil Engineer, is a registered professional civil engineer in Louisiana with over 20 years of experience.
- *Timothy J. Koenig, PE*, a BKI Civil Engineer, is a licensed, registered Civil Engineer in Louisiana with over 20 years of experience.
- *Ray Nolan, PE*, a CEG Electrical Engineer, is a licensed, registered professional electrical engineer in Louisiana with over 27 years experience (subconsultant).

EVALUATION CRITERIA

A. Professional Training and Experience

BKI has provided **civil, hydraulic, and structural engineering** services on a wide range of water projects in Jefferson Parish including **water tower rehabilitation and replacement, water treatment plants, water intake systems, water storage tank rehabilitation and replacement, waterlines, water system studies and analyses.** BKI has nurtured a working relationship with the Jefferson Parish Engineering Department 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 engineering services for the Routine Engineering Services for water projects, we will use our previous experience and working relationships to provide a successful project from conceptual design through construction. **Each of the employees in this SOQ has provided services for projects using disaster funding including FEMA funds under a Hazard Mitigation Grant Program when applicable.**

BKI's water engineering clients include the City of Gretna, the City of Shreveport, the City of Kenner, New Orleans Sewerage and Water Board, as well as Jefferson, Orleans, Ascension, St. John the Baptist, St. Bernard, and East Baton Rouge Parishes.

BKI has completed approximately 89 water projects over the years - from simple standalone projects to complex regional projects.

Key personnel, with their role on this project in italics, include:

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

- **33 years of experience in civil engineering planning, design, and construction of Jefferson Parish projects**
- Wide range of project management experience includes numerous drainage studies, **hydraulic models and designs**, drainage improvements, levees, floodwalls, flood control projects, roadways, and site development

Henry M. Picard, III, PE, PLS - *Professional in Charge of project; QA/QC; LA Registered Professional Engineer (Minimum Requirement No. 2)*

- **43 years of experience includes project management of water; water treatment; water intake; and water storage projects**
- Wide range of project management experience includes water, sewer, roadway, and drainage projects
- Experience in conceptual design for water, sewer, drainage and roadway, traffic, rail, and port projects
- Wide range of experience as Principal, Project Manager, or Project Engineer includes many projects in Jefferson Parish.

Rene A. Chopin III, PE - *Chief Engineer/Structural Engineer (Minimum Requirement No. 3)*

- **36 years of engineering experience in highway roadway and bridge design including Jefferson Parish Projects**
- Project Manager or Lead Structural Engineer on numerous roadway improvements, utility improvements, water treatment plants, and water storage
- Proficient in the following software: AutoCAD Civil 3D, AutoTurn, and InRoads software

David E. Boyd, PE - Civil Engineer - *LA Registered Professional Civil Engineer with 16+ Years Experience (Minimum Requirement No. 3)*

- **20 years of experience in civil design, water lines, water storage, hydraulic and hydrologic studies and design, and utility design**

- Wide range of experience in inspecting various construction projects, both ongoing and completed, which include hydrology, flood control, drainage, utility upgrades, and water lines
- Proficient in HEC-HMS, HEC-RAS, and SWMM software

Timothy J. Koenig, PE - *Civil Engineer*
- **22 years of experience in civil design and utility design**
- Wide range of experience including cost estimation, construction document preparation, drainage design, street extensions, port repairs, and bidding assistance
- Proficient in the following software: HEC-HMS and HEC-RAS

Farhad H. Mogharrebi, PE - *Structural Engineer*
- **27 years experience in structural design with a focus on flood control, water works, pump station, and port/airport projects**

Daniel S. Caluda, Jr - *Mechanical Designer*
- **Over 37 years of experience in Mechanical Design**
- Has provided pump station operations supervision as well as training of pump station operators.
- Has provided 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.

EDUCATION AND EXPERTISE OF PROPOSED STAFF

NAME	YEARS EXPERIENCE	EDUCATION	EXPERTISE	JEFFERSON PARISH EXPERIENCE
Michael D. Chopin, PE	33	BS, Civil Engineering	Project Oversight	Yes
Henry M. Picard, III, PE, PLS	43	BS, Civil Engineering	Project Management	Yes
David E. Boyd, PE	20	BS, Civil Engineering	Water Systems, Water Projects, Utility Upgrades	Yes
Rene A. Chopin, III, PE	36	BS, Civil Engineering	Chief Engineer, Structural Engineering, Infrastructure, Roadway, Bridge, Structural Design	Yes
Timothy J. Koenig, PE	22	BS, Civil Engineering; BS Microbiology	Civil Engineering, Pump Stations, Sewer Treatment	Yes
Farhad H. Mogharrebi, PE	27	BS, Civil Engineering	Structural Engineering, Water Works, Pump Stations, Flood Control	Yes
Andrew R. Jensen, PE	10	BS, Civil Engineering	Civil Engineering, Waterlines, Drainage Design, Roadway Design/Improvements	Yes
Renee Poole, PE	5	BS, Civil and Environmental Engineering	Civil/Hydraulic Engineer	Yes
Daniel S. Caluda, Jr.	42	BS, Petroleum Engineering	Mechanical Designer	Yes
Bailee L. Hurm, EI	4	BS, Civil and Environmental Engineering	Structural Engineer Intern	Yes

B. 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 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.

C. Location of Principal Office Where Work will be Performed
BKI's **Kenner** office will be the main project office and is located at 2400 Veterans Memorial Blvd. Suite 310. 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.

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

E. Parish Work Previously Performed and Presently Being Performed
BKI has worked with Jefferson Parish on dozens of past projects covering a wide range of services and fees. We have performed over 30 projects in the area of water system design, drainage system design, pump station design, drainage master planning, water treatment construction administration; six projects having to do with recreation planning and park, bike-way, and marina/waterfront design; six transportation and corridor planning and traffic and parking impact studies; and a wide variety of other projects including landscape architecture, railroad safety, and environmental services. BKI will provide a complete list of Parish work upon request. The following list highlights BKI's experience with verifiable references on the below:

PROJECT NAME	STATE PROJECT NO.	PROJECT DESCRIPTION	CLIENT REFERENCE
St Bernard Water Treatment Plant	N/A	Engineering Design Plans & Specifications Resident Inspection Construction Administration	**St. Bernard Parish** 8201 W Judge Perez Drive Chalmette, LA 70043 Matthew Falati p: (504) 278-4300 Email: mfalati@sbpg.net
Gretna Water Line Replacement at Whitney Canal	N/A	Plans & Specifications Construction Documents Cost Estimates Civil Engineering	**City of Gretna** 740 2nd Street Gretna, LA 70053 Ron Johnson p: (504) 363-1540 Email: rjohnson@gretnala.com
Shreveport Water Model	N/A	Civil Engineering Hydraulic Analysis GIS	**City of Shreveport** 505 Travis Street Shreveport, LA 71101 William Daniel p: (318) 673-7912 Email: william.daniel@shreveportla.gov
Lions Water Treatment Plant Pump Station Intake Project	N/A	Electrical Engineering Mechanical Engineering	**St. John the Baptist Parish** 1811 W. Airline Hwy. LaPlace, LA 70068 Reed Alexander p: (985) 651-6801 Email: r.alexander@stjohn-la.gov
Chlorine Scurbber at the Gretna Water Treatment Plant	N/A	Engineering Design Plans & Specifications Construction Administration	**City of Gretna** 740 2nd Street Gretna, LA 70053 Ron Johnson p: (504) 363-1540 Email: rjohnson@gretnala.com

F. Size of Firm
BKI's company staff consists of 29 full-time employees who work out of our Kenner office who are categorized as follows:

ENGINEER	DESIGNER/ DRAFTER	ENGINEERING INTERN	CONSTRUCTION INSPECTOR	ADMINISTRATIVE
Civil: 8; **Structural:** 3	6	1	3	8

Of these employees, we have identified **9** 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.

G. BKI's Past Performance on Public Contracts
BKI has performed successfully on numerous public contracts of various types and sizes without time delays, cost overruns, or incomplete/incorrect appraisals.

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 24-013 Routine Engineering Services for Water Projects, Resolution No. 144203.**

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

Name:	Public Address:
Burk-Kleinpeter, Inc.	2400 Veterans Memorial Boulevard

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0000124	Active	09/12/1984	09/30/2025	Mr. Rene' Adrian Chopin III # PE.0025174

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

Name:	Public Address:
Burk-Kleinpeter, Inc.	2400 Veterans Memorial Boulevard

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000024	Active	09/12/1984	09/30/2025	Mr. Henry Maurice Picard III # PLS.0004736

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: PE.0026797
Expiration Date: 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

Mr. Henry Maurice Picard III

License/Certificate Type - Number: PE.0022289
Expiration Date: 03/31/2025
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: PLS.0004736
Expiration Date: 03/31/2025
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: PE.0035510
Expiration Date: 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

Mr. Rene' Adrian Chopin III

License/Certificate Type - Number: PE.0025174
Expiration Date: 09/30/2025
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: PE.0035079
Expiration Date: 03/31/2026
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: PE.0027984
Expiration Date: 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

Mr. Rene' Adrian Chopin IV

License/Certificate Type - Number: PE.0042349
Expiration Date: 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: PE.0047869
Expiration Date: 09/30/2025
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. Bailee Leah Hurm

License/Certificate Type - Number: EI.0034435
Expiration Date: 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

Mr. Andrew Robert Jensen

License/Certificate Type - Number: PE.0043382
Expiration Date: 09/30/2025
Status: Active

Jefferson Parish
State of Louisiana

BFM Corporation, LLC.
TEC Questionnaire






BKI BURK-KLEINPETER, INC.
ENGINEERING · PLANNING · ENVIRONMENTAL

18 17 16 BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of Routine Engineering Services for

Water Projects in Jefferson Parish

SOQ **24-013** | Resolution No. **144203**

B. Firm Name & Address:

BFM Corporation, LLC

15 Veterans Memorial Boulevard | Kenner LA 70062

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:

Ralph P. Fontcuberta, Jr., PLS, Executive Vice President
504-468-8800 | 504-468-8800 cell | ralph@bfmcorporation.com
Registered Professional Land Surveyor (**Louisiana No. 4329; since 1974**)

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:

Ralph P. Fontcuberta, Jr., PLS, Executive Vice President
504-468-8800 | 504-468-8800 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 (*see Administrative*)
	Ecologists	1	Land Surveyor (*Apprentice*)		Grant/Funding Specialist
	Electrical Engineers		Mechanical Engineers		Sanitary Engineers
	Engineer Intern		Environmental Engineers	1	*Researcher/Archivist*
2	Professional Land Surveyors			3	*CADD Technicians*
				6	*Survey Crew Chief*
				6	*Survey Crew Instrumentman*
				26	**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.

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

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

26 *(all personnel will be available for assignment to the project)*

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 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:

Ralph P. Fontcuberta, Jr., PLS
Executive Vice President / Registered Professional Land Surveyor

Project Assignment:

Registered Professional Land Surveyor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

42 years (Founding Principal of BFM in 1982);
57 years total (1967)

Gulf South Engineering and Testing, Inc. | 2017 to present
BFM Corporation, LLC | 1982 to present
Surveys, Inc. | 1967 to 1982
The Boeing Company | 1964 to 1967

Education: Degree(s)/Year/Specialization:

2 yr, Building Trade Curriculum, Delgado, New Orleans
2 yr, Mathematics Curriculum, University of New Orleans

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

Project work has included topographic surveying needed for a wide variety of engineering, architectural, construction, and other related endeavors. This has included projects for numerous branches of virtually every regional city/parish/town government, multiple State agencies (LA Dept. of Natural Resources (LADNR), Coastal Protection & Restoration Administration (CPRA), LA

TEC Professional Services Questionnaire

Other experience and qualifications: **Ralph P. Fontcuberta, Jr., PLS (continued)**

Dept. of Transportation & Development (LADOTD), MS Dept. of Transportation (MDOT), and others), Federal agencies (U.S. Army Corps of Engineers (USACE), Dept. of the Navy, etc.), private/ public companies (Entergy, BellSouth, Cox Cable, etc.), and numerous other public/private entities.

Mr. Fontcuberta's surveying experience with Jefferson Parish can be traced back to BFM's inception in 1982, and to 1967 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:

- Waterline Improvements, Metairie Terrace Neighborhood South (Shrewsbury Road, Amoult Road, Katlan Street, Lausat Street, Hullen Street, Claiborne Avenue & Jimco Road), JPPW No. 2023-040-WRB, Jefferson Parish, LA
- East Bank Water Treatment Plant Improvements Project (including Laser Scanning), Jefferson Parish, LA
- Waterline Improvements on North 1-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW No. 2023-010B-WRB, Jefferson Parish, LA
- Route Topographic Survey for the Jefferson Parish Waterline Project (2023-032-WRB), Shrewsbury Neighborhood, Jefferson Parish, LA
- Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA
- Waterline Improvements on Elizabeth Avenue, Ruth Street, Kathleen Avenue, and Parkaire Drive, JPPW No. 2023-012B-WRB, Jefferson Parish, LA
- Locate 16-inch Water Line between Valve Station 18 and Valve Station 24, Grand Isle, Jefferson Parish, LA
- River Road Water Line Replacement (Phase II), Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, LA
- East Bank Water Treatment Plant Project - Water and Utility Line Survey, Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA
- Waterline Improvements on Colony Place, Elizabeth Avenue, Concord Avenue, Stanford Avenue, and Flagler Street, JPPW 2023-012A-WRB, Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline Replacement Project, Central Avenue, Karen Avenue, and Newman Avenue, JPPW 2023-007-WRB, Jefferson Parish, LA
- Waterline Replacement at Shrewsbury Neighborhood (2023-013B-WRB), Jefferson Parish, LA
- Route Topographic Survey for the Williams Boulevard Waterline Replacement Project (between Airline Highway and West Metairie), Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline Project 2023-030-WRB, Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline Replacement Project, Veterans Boulevard (Crestview Avenue), JPPW 2023-016A-WRB, Jefferson Parish, LA

TEC Professional Services Questionnaire

Other experience and qualifications: **Ralph P. Fontcuberta, Jr., PLS (continued)**

- Route Topographic Survey for the Jefferson Heights Water System Improvements Project, Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline Project 2023-041-WRB, Jefferson Parish, LA
- Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Jefferson Parish, LA
- River Road Water Line, Waggaman, Jefferson Parish, LA
- Lower Lafitte Waterline Stakeout, Jefferson Parish, LA
- Route Topographic & Right-of-Way Survey for Sonia Place (S. Labarre Road to Santa Ana Avenue), Jefferson Parish, LA
- Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA
- East Jefferson Water Works - River Road, Jefferson Parish, LA
- Iris Avenue Water Line Replacement, Jefferson Parish, LA
- Grand Isle Water Tower Site Project, Town of Grand Isle, Jefferson Parish, LA
- Emergency Generator Replacement at the East Bank Treatment Plant, Jefferson Parish, LA
- West Bank Water Intake Basin Hydrographic Survey, Jefferson Parish, LA
- Evans Road Waterline Repair - Mississippi River Levee Cross Section, Jefferson Parish, LA
- Water Line Location Surveying, Grand Isle, Jefferson Parish, LA
- Grand Isle Water Main Location, Jefferson Parish, LA
- Water Main Installation, Live Oak Boulevard, West Bank, Jefferson Parish, LA
- East Bank Water Plant Intake Basin Hydrographic Survey, Jefferson Parish, LA
- Fifi Island/Bayou Rigaurd Water Line Location, Grand Isle, Jefferson Parish, LA
- Gretna Water Tower, Jefferson Parish, LA
- Canal No. 17 Bank Stabilization Phase II, Jefferson Parish, LA
- Channel Repair, Phase II, Construction Unit No. 3 (West Bank), Jefferson Parish, LA
- Channel Repair, Phase II, Construction Unit No. 2 (East Bank), Jefferson Parish, LA
- Central Avenue Project (including Utilities), Metairie, Jefferson Parish, LA
- Lapalco Blvd. Improvements (Segnette to Tanglewood); 96-019B-RBI, Jefferson Parish, LA
- Oakwood/Terrytown Drainage Improvements, Jefferson Parish, LA
- Upper Kraak Pump Station, Jefferson Parish, LA
- Clearview Parkway & Airline Boulevard Intersection, Jefferson Parish, LA
- Severn Corridor (Subsurface Utility Engineering (SUE)), Metairie, Jefferson Parish, LA
- Lasalle Rest Room Building, Jefferson Parish, LA
- Citrus Boulevard Improvements, Jefferson Parish, LA

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Chad M. Poché, P.E.
Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Engineering Liaison

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

7 years (became partial owner of BFM in 2017);
31 years total (1993)

BFM Corporation, LLC | 2017 to present
Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Eustis Engineering | 1996 to 2001
Soil Testing Engineers, Inc. | 1993 to 1996

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 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 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 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; 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: **Chad M. Poché, P.E. (continued)**

Waterline Improvements, Metairie Terrace Neighborhood South, JPPW Project No. 2023-040-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 9,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($88,400 (fee); 2023)

Waterline Improvements on North 1-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW Project No. 2023-010B-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 8,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($88,400 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project (2023-032-WRB), Shrewsbury Neighborhood, Jefferson Parish, LA. BFM prepared a Route Topographic Survey for the project, which involved Shrewsbury Neighborhood: L&A Road, Access Road, K&B Road, McDermott Road, and Earhart Expressway; a total of approximately 8,600 lf. Scope includes establishing a baseline, setting a CBM and establishing TBMs. Existing improvements & utilities were located. BFM determined depth, size, and type of pipes and locate and identified trees. (BFM provided surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.) ($88,140 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey includes establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities were located. BFM determined the depth, size, and type of pipes and locate and identified trees. Spot elevations were also taken. ($84,280 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($78,100 (fee); 2023)

Waterline Improvements on Colony Place, Elizabeth Avenue, Concord Avenue, Stanford Avenue, and Flagler Street, JPPW 2023-012A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($77,840 (fee); 2023)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gary J. Lambert, Jr., PLS
Vice President / Registered Professional Land Surveyor

Project Assignment:

Project Manager/Drafting Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

6 years (joined BFM in 2018);
13 years total (2011)

BFM Corporation, LLC | 2018 to present
Riverlands Surveying | 2016 to 2018
Bertucci Contracting | 2011 to 2016

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 No. 5929)

Other experience and qualifications relevant to the proposed Project:

Gary J. Lambert, Jr., is a registered Professional Land Surveyor in Louisiana and provides Project Management and Drafting Oversight for BFM Corporation. He is the first point of contact for clients on technical matters, scheduling, and deliverables for project work, and conducts meetings with engineering, architectural, and government officials to discuss various project needs. His project work has encompassed all manner of surveying services, from basic home lots to 100+ acre tract boundary surveys.

In the field, Mr. Lambert has provided services as a Survey Crew Chief, using both traditional and robotic surveying methods, since the start of his professional career, and has experience with Leica, Hypack, AutoCAD, AutoCAD 3D, Trimble, and RTK surveying technologies. He further trains employees in the use of an aerial drone, laser scanner, and remote-controlled hydrographic survey boat. This survey experience includes topographic, boundary, ALTA/NSPS, FEMA, and various construction surveying. Mr. Lambert has also conducted hydrographic surveys in the Mississippi River and various other bodies of water throughout the Gulf Coast area.

Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).

TEC Professional Services Questionnaire

Other experience and qualifications: **Gary J. Lambert, Jr., PLS (continued)**

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA. BFM's surveying services, as part of Task Order No. 3 of the project, involved BFM's location of exposed water or utility lines after said lines were excavated by another firm. Horizontal location and vertical elevation, at top of pipe, was recorded along with the pipe size and type. Field data was processed to add to the existing topographic survey, previously executed by BFM. ($19,703 (fee); 2018)

Waterline Improvements on Elizabeth Avenue, Ruth Street, Kathleen Avenue, and Parkaire Drive, JPPW Project No. 2023-012B-WRB, Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project, which involved multiple street locations (Elizabeth Avenue, Ruth Street, Linwood Avenue, Loraine Street, Kathleen Avenue, and Parkaire Drive) in Jefferson Parish. The limits of survey involve the noted routes and are to be within the entire street rights-of-way of all limits indicated as well as 10 feet beyond the apparent right-of-way on each side, totaling approximately 5,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($55,300 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Replacement Project, Central Avenue, Karen Avenue, and Newman Avenue, JPPW 2023-007-WRB, Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (approximately 5,650 linear feet). The project will establish a baseline throughout the project, a Construction Benchmark (CBM), and set Temporary Benchmarks (TBMs) along each route. Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. BFM will also locate property corners to establish the rights-of-way. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($67,740 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-030-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,600 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($59,300 (fee); 2023)

Route Topographic & Right-of-Way Survey for Sonia Place, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 1400 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($15,120 (fee); 2023)

Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA. BFM Corporation provided surveying services for the project; the scope of which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey. ($2,850 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Lemley
Field Operations Manager/Survey Crew Chief

Project Assignment:

Field Operations Manager/Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

10 years (joined BFM in 2014);
18 years total (2006)

BFM Corporation, LLC | 2014 to present
G.E.C., Inc. | 2010 to 2014
Krebs, LaSalle, LeMieux Consultants, Inc. | 2006 to 2010

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

American Traffic Safety Service Assn. – Traffic Flagger
Louisiana Boater Education - Boating Safety Certificate
Norfolk Southern Roadway Worker Protection Contractor Safety Certificate

Other experience and qualifications relevant to the proposed Project:

Chris Lemley's services as BFM's Field Operations Manager includes overseeing all field work and activity by company personnel. 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. Notable past project work has included the New Orleans Museum of Art, Jackson Barracks Restoration, US Highway 11, NASA Michoud Cells 3 & 4, the St. Bernard Lot Next Door Program, and multiple Orleans Parish School Recovery projects (including L.B. Landry, George Washington Carver, and Alice M. Harte schools).

Route Topographic Survey for Jefferson Parish Waterline Replacement Project, Central Avenue, Karen Avenue, and Newman Avenue, JPPW 2023-007-WRB, Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (approximately 5,650 linear feet). The project will establish a baseline throughout the project, a Construction Benchmark (CBM), and set Temporary Benchmarks (TBMs) along each route. Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. BFM will also locate property corners to establish the rights-of-way. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($67,740 (fee); 2023)

TEC Professional Services Questionnaire

Other experience and qualifications: **Christopher Lemley (continued)**

Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey includes establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities were located. BFM determined the depth, size, and type of pipes and locate and identified trees. Spot elevations were also taken. ($84,280 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-030-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,600 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($59,300 (fee); 2023)

Route Topographic & Right-of-Way Survey for Sonia Place, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 1400 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($15,120 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($78,100 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-016A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 5,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($55,740 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-041-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($44,200 (fee); 2023)

Waterline Replacement at Shrewsbury Neighborhood (2023-013B-WRB), Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves Shrewsbury Road and associated side streets, a total of approximately 6,650 lf. The scope of work involves establishment of a baseline along each route, establishing Temporary Benchmarks (TBM) at 500 ft. intervals. Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. ($66,170 (fee); 2023)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

John Philip Thayer
Procurement Director (Proposals & Project Management Support)

Project Assignment:

Project Management Support

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

16 years (joined BFM in 2008);
17 years total (2007)

BFM Corporation, LLC | 2008 to present
Delle Land Surveying | 2007 to 2008

Education: Degree(s)/Year/Specialization:

Certificate, 2015, Land Surveying Services
B.S., 2007, Physical Education, Trevecca Nazarene University

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Phil Thayer serves as BFM's Procurement Director, providing proposal preparation and Project Management Support, having considerable experience in field surveying services, including ALTA/ as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.

Route Topographic Survey for Jefferson Parish Waterline Replacement Project, Central Avenue, Karen Avenue, and Newman Avenue, JPPW 2023-007-WRB, Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (approximately 5,650 linear feet). The project will establish a baseline throughout the project, a Construction Benchmark (CBM), and set Temporary Benchmarks (TBMs) along each route. Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. BFM will also locate property corners to establish the rights-of-way. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($67,740 (fee); 2023)

Waterline Improvements on Elizabeth Avenue, Ruth Street, Kathleen Avenue, and Parkaire Drive, JPPW Project No. 2023-012B-WRB, Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project, which involved multiple street locations (Elizabeth Avenue, Ruth Street, Linwood Avenue, Loraine Street, Kathleen Avenue, and Parkaire Drive) in Jefferson Parish. The limits of survey involve the noted routes and are to be within the entire street rights-of-way of all limits indicated as well as 10 feet beyond the apparent right-of-

TEC Professional Services Questionnaire

Other experience and qualifications: **John Philip Thayer (continued)**

way on each side, totaling approximately 5,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($55,300 (fee); 2023)

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA. BFM's surveying services, as part of Task Order No. 3 of the project, involved BFM's location of exposed water or utility lines after said lines were excavated by another firm. Horizontal location and vertical elevation, at top of pipe, was recorded along with the pipe size and type. Field data was processed to add to the existing topographic survey, previously executed by BFM. ($19,703 (fee); 2018)

Lower Lafitte Waterline, Jefferson Parish, LA. BFM provided surveying services associated with the location of a 16 inch plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project. BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes). Certain areas were very deep and the line was not accurately located in this area. BFM set markers where approximate locations were based on the areas where the line was found. ($38,205 (fee); 2017)

Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA. BFM provided bathymetric, boundary and topographic surveying services for the project. Improvements on the site were located, as well as visible above-ground utilities & underground utilities with visible surface evidence. Existing storm sewer and sanitary sewers were located using top of casing; invert elevations were provided on the survey. Bathymetric surveys were tied to the U.S. Army Corps of Engineers baseline. Deliverables included indelible prints and AutoCAD DWG format drawing files. ($14,804 (fee); 2016)

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

Iris Avenue Water Line Replacement, Jefferson Parish, LA. BFM provided topographic surveying services for the Iris Avenue Water Line Replacement. This included the area of Iris Avenue from River Road to Jefferson Highway, on Lance Street and Jeanette Streets from Iris A venue to Brooklyn A venue. As executed, the surveys extended from right of way to right of way. ($18,493 (fee); 2011)

East Bank Water Plant Intake Basin Hydrographic Survey, Jefferson Parish, LA. BFM Corporation provided hydrographic surveying for the project. Our scope of services included soundings into the Mississippi River (to a -50 elevation); this element included location of the intake structure and elevations inside the structure as well as on the intake pipes. BFM further located the discharge ditch on the down river side of the structure. Deliverables included an indelible print and AutoCAD DWG files. ($4,975 (fee); 2010)

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:

15 years (joined BFM in 2009);
27 years total (1997)

BFM Corporation, LLC | 2009 to present
Fluor Corporation | 2007 to 2009
Geographic Computer Technologies, LLC | 2000 to 2007

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:

N/A

Other experience and qualifications relevant to the proposed Project:

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

Route Topographic Survey for Jefferson Parish Waterline Project 2023-030-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,600 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($59,300 (fee); 2023)

East Bank Water Treatment Plant Improvements Project (including Laser Scanning), Jefferson Parish, LA. BFM provided surveying services for Tasks 1 (topographic) and 2 (boundary) of the project, part of a major improvements project for the East Bank Water Treatment Plant located at 3600 Jefferson Highway in Jefferson Parish. This included executing a 3D Laser Scan for an As-Built Utilities survey. Draft surveying (in conjunction with the Prime Firm) as well as provision of final survey were prepared as directed. ($166,230 (fee); 2017)

Grand Isle Water Tower Site Project (DPW Proj. 2008-018-WR), Town of Grand Isle, Jefferson Parish, LA. BFM Corporation provided a topographic survey; scope included establishing a TBM, preparing a boundary survey, taking elevations (at 25 ft. intervals) with spot elevations on paving or other hard surfaces. Location of improvements were plotted within the designated limits of survey. Utilities and piping were located, as was existing storm sewer and sanitary sewer structures.

Other experience and qualifications: **Dawn Hoffman (continued)**

Specimen trees were all also located. BFM provided follow-up surveying services for the project, an extension of DPW Project 2008-018-WR. Deliverables included indelible prints and in AutoCAD DWG format. ($15,612 (fee); 2012)

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

Waterline Improvements on Colony Place, Elizabeth Avenue, Concord Avenue, Stanford Avenue, and Flagler Street, JPPW 2023-012A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($77,840 (fee); 2023)

Waterline Improvements on North 1-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW Project No. 2023-010B-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 8,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($88,400 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($78,100 (fee); 2023)

Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Jefferson Parish, LA. BFM located the 16-inch water line in the exposed areas from Sta. 0+00 on the north bank of Bayou Rigolettes to the south bank of Bayou Rigaud in Grand Isle, Louisiana. In a previous project for the Parish (BFM Proj 7317; Fifi Island/Bayou Rigaurd Water Line Location in 2010), BFM located both the upper & lower portions of the 16-inch water line. This left the approximate location of the area previously located on Fifi Island; 138,776 feet or 25.79 miles. For the survey, probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by Louisiana State University and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. ($363,080 (fee); 2013)

Iris Avenue Water Line Replacement, Jefferson Parish, LA. BFM provided topographic surveying services for the Iris Avenue Water Line Replacement. This included the area of Iris Avenue from River Road to Jefferson Highway, on Lance Street and Jeanette Streets from Iris A venue to Brooklyn A venue. As executed, the surveys extended from right of way to right of way. ($18,493 (fee); 2011)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Anthony Watson
CADD Technician (AutoCADD Drafting Services)

Project Assignment:

CADD Technician (AutoCADD Drafting Services)

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

13 years (joined BFM in 2011);
33 years total (1991)

BFM Corporation, LLC | 2011 to present
Krebs LaSalle Lemieux / GEC | 2008 to 2011
Doug Connally and Associates Land Surveying (Dallas, TX) | 1995-2008
Electrician | 1991 to 1995
City of Plano TX (Part-Time Drafting Services) | 1991

Education: Degree(s)/Year/Specialization:

Coursework - CAD, Avatech Solutions, Los Colinas, TX

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Anthony Watson has experience as a draftsman/survey technician, having started his career as an intern with the Surveying Department of the City of Plano, Texas. 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.

Route Topographic Survey for Jefferson Parish Waterline Project 2023-030-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,600 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($59,300 (fee); 2023)

Route Topographic & Right-of-Way Survey for Sonia Place, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 1400 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($15,120 (fee); 2023)

Other experience and qualifications: **Anthony Watson (continued)**

Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($78,100 (fee); 2023)

Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA. BFM Corporation provided surveying services for the project; the scope of which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey. ($2,850 (fee); 2022)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-016A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 5,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($55,740 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-041-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($44,200 (fee); 2023)

Waterline Improvements on North I-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW Project No. 2023-010B-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 8,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($88,400 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey includes establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities were located. BFM determined the depth, size, and type of pipes and locate and identified trees. Spot elevations were also taken. ($84,280 (fee); 2023)

Review and Update Survey Plats for the Lafitte Area Hurricane Protection Levee, Lafitte, Jefferson Parish, LA. BFM provided surveying services to review and update survey plats for the Lafitte Area Hurricane Protection Levee. BFM has provided survey updates for the site as needed for over a decade. ($2,600 (fee); 2016)

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:

34 years (joined BFM in 1990);
39 years total (1985)

BFM Corporation, LLC | 1990 to present
Benson Mercedes Benz | 1989 to 1990
SECO Electric | 1987
Frishhertz Electric | 1986 to 1987
Plain Construction | 1985 to 1986

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

American Traffic Safety Service Assn. – Traffic Flagger
Basic OSHA Training Class Completion
Transportation Work Identification Card (TWIC)

Other experience and qualifications relevant to the proposed Project:

Jay Barrios' surveying experience includes boundary, hydrographic, and topographic. He has been the Survey Crew Chief for thousands of projects and is one of the more experienced surveyors in the area. Further, Mr. Barrios has been involved on major transmission projects for Entergy and South Central Bell (AT&T).

Route Topographic Survey for Jefferson Parish Waterline Project (2023-032-WRB), Shrewsbury Neighborhood, Jefferson Parish, LA. BFM prepared a Route Topographic Survey for the project, which involved Shrewsbury Neighborhood: L&A Road, Access Road, K&B Road, McDermott Road, and Earhart Expressway; a total of approximately 8,600 lf. Scope includes establishing a baseline, setting a CBM and establishing TBMs. Existing improvements & utilities were located. BFM determined depth, size, and type of pipes and locate and identified trees. (BFM provided surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.) ($88,140 (fee); 2023)

River Road Water Line Replacement, Jefferson Parish, LA. As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive (approximately 14,000 linear feet plus 50-foot intersections). This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan

program. The scope of work executed by BFM included establishing a baseline parallel with the right of way, setting TBMs, and plotting spot elevations. Improvements and utilities were located and plotted within the designated limits of survey. Boundary corners were located along the route in order to assist in determining widths of any existing rights of way. Trees on site (over 4-inches in diameter) were also located. ($84,700 (fee); 2015)

Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey will include establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. Spot elevations will also be taken. ($84,280 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($78,100 (fee); 2023)

Waterline Improvements on Colony Place, Elizabeth Avenue, Concord Avenue, Stanford Avenue, and Flagler Street, JPPW 2023-012A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($77,840 (fee); 2023)

Waterline Improvements on North 1-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW Project No. 2023-010B-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 8,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($88,400 (fee); 2023)

Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Jefferson Parish, LA. BFM located the 16-inch water line in the exposed areas from Sta. 0+00 on the north bank of Bayou Rigolettes to the south bank of Bayou Rigaud in Grand Isle, Louisiana. In a previous project for the Parish (BFM Proj 7317; Fifi Island/Bayou Rigaurd Water Line Location in 2010), BFM located both the upper & lower portions of the 16-inch water line. This left the approximate location of the area previously located on Fifi Island; 138,776 feet or 25.79 miles. For the survey, probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by Louisiana State University and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. ($363,080 (fee); 2013)

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this project. Please include and 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:**	
Waterline Improvements, Metairie Terrace Neighborhood South (Shrewsbury Road, Amoult Road, Katlan Street, Lausat Street, Hullen Street, Claiborne Avenue & Jimco Road), JPPW No. 2023-040-WRB, Jefferson Parish, Louisiana **GIS Engineering** 935 Gravier Street Suite 600 New Orleans LA 70112 **Kyle Galloway, P.E.**, 504-264-3504 kgalloway@gisy.com	BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 9,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
September 2023	N/A	$88,400 (fee)

PROJECT NO. 2		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
East Bank Water Treatment Plant Improvements Project (including Laser Scanning), Jefferson Parish, Louisiana **Stantec** 1340 Poydras Street, Suite 1420 New Orleans LA 70112 **Jeffrey Sapia, P.E.**, 225-926-3991 jeffrey.sapia@stantec.com	BFM Corporation provided surveying services for Tasks 1 (topographic) and 2 (boundary) of the project, part of a major improvements project for the East Bank Water Treatment Plant located at 3600 Jefferson Highway in Jefferson Parish. This included executing a 3D Laser Scan for an As-Built Utilities survey. Draft surveying (in conjunction with the Prime Firm) as well as provision of final survey were prepared as directed.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
June 2017	N/A	$166,230 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Waterline Improvements on North 1-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW No. 2023-010B-WRB, Jefferson Parish, Louisiana **Pivotal Engineering** 1515 Poydras Street Suite 1150 New Orleans LA 70112 **Yoseph Shifare, P.E.,** 504-939-2693 yshifare@pivotaleng.com	BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 8,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2023	N/A	$88,400 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Route Topographic Survey for the Jefferson Parish Waterline Project (2023-032-WRB), Shrewsbury Neighborhood, Jefferson Parish, Louisiana **Burk-Kleinpeter, Inc.** 4176 Canal Street New Orleans LA 70119 **Henry M. Picard, III, P.E.,** 504-486-5901 hpicard@bkiusa.com	BFM Corporation prepared a Route Topographic Survey for the project, which involved Shrewsbury Neighborhood: L&A Road, Access Road, K&B Road, McDermott Road, and Earhart Expressway; a total of approximately 8,600 lf. Scope includes establishing a baseline, setting a CBM and establishing TBMs. Existing improvements & utilities were located. BFM determined depth, size, and type of pipes and locate and identified trees. (BFM provided surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.)	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2023	N/A	$88,140 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Central Avenue Roadway Water Main & Drainage Improvements, Jefferson Parish, Louisiana **Jefferson Parish** **Department of Capital Projects** 1221 Elmwood Park Blvd Ste 906 Jefferson LA 70123 **Neil Schneider,** 504-736-6833 nschneider@jeffparish.net	BFM Corporation provided surveying services for the project; the scope of which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
April 2023	N/A	$2,850 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Waterline Improvements on Elizabeth Avenue, Ruth Street, Kathleen Avenue, and Parkaire Drive, JPPW No. 2023-012B-WRB, Jefferson Parish, Louisiana **Kyle Associates, LLC** 638 Village Lane North Mandeville LA 70471 **Kevin M. Drane, P.E.,** 985-727-9377 kdrane@kyleassociates.net	BFM Corporation was selected to prepare a Route Topographic Survey for the project, which involved multiple street locations (Elizabeth Avenue, Ruth Street, Linwood Avenue, Loraine Street, Kathleen Avenue, and Parkaire Drive) in Jefferson Parish. The limits of survey involve the noted routes and are to be within the entire street rights-of-way of all limits indicated as well as 10 feet beyond the apparent right-of-way on each side, totaling approximately 5,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2023	N/A	$55,300 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Locate 16-inch Water Line between Valve Station 18 & Valve Station 24, Grand Isle, Jefferson Parish, Louisiana **Jefferson Parish** **Water Department** 1221 Elmwood Park Blvd Ste 909 Jefferson LA 70123 **R. Douglas Vincent, P.E.,** 504-838-4363 JPWater@jeffparish.net	The purpose of the survey was to locate the 16-inch water line between Valve Station 18 and Valve Station 24. The length of this segment was approximately 57,400 feet. Survey probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by Louisiana State University and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. BFM further prepared an estimate for the Parish to provide a location survey for the water line after it was lowered.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
November 2014	N/A	$133,444 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
River Road Water Line Replacement (Phase II), Jefferson Parish, Louisiana **Digital Engineering** 527 W Esplanade Ave Ste 200 Kenner LA 70065 **Frank T. Liang, P.E.,** 504-468-7515 fliang@deii.net	As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive (approximately 14,000 linear feet plus 50-foot intersections). This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program. The scope of work executed by BFM included establishing a baseline parallel with the right of way, setting TBMs, and plotting spot elevations. Improvements and utilities were located and plotted within the designated limits of survey. Boundary corners were located along the route in order to assist in determining widths of any existing rights of way. Trees on site (over 4-inches in diameter) were also located.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
June 2015	N/A	$84,700 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, Louisiana **H. Davis Cole & Associates, Inc.** 1340 Poydras Street Suite 1850 New Orleans LA 70112 **Mike D'Angelo**, 504-836-2020 mike@hdaviscole.com	BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey includes establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities were located. BFM determined the depth, size, and type of pipes and locate and identified trees. Spot elevations were also taken.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
August 2023	N/A	$84,280 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
East Bank Water Treatment Plant Project – Water and Utility Line Survey, Jefferson Parish, Louisiana **Stantec Consulting Services, Inc.** 1340 Poydras Street, Suite 1420 New Orleans LA 70112 **Jeffrey Sapia, P.E.**, 225-926-3991 jeffrey.sapia@stantec.com	BFM's surveying services, as part of Task Order No. 3 of the project, involved BFM's location of exposed water or utility lines after said lines were excavated by another firm. Horizontal location and vertical elevation, at top of pipe, was recorded along with the pipe size and type. Field data was processed to add to the existing topographic survey, previously executed by BFM.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
October 2018	N/A	$19,703 (fee)

TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. *BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.*		
2.		
3.		
4.		

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

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

CRITERIA 1 | PROFESSIONAL TRAINING AND 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, as well as 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 & LiDAR and 3D Laser Scanning
- Bathymetric / Hydrographic Surveys
- Property, Boundary, and Right-of-Way Surveys
- Maps, Cross-Sections, & Data Sets; Benchmarks

TEC Professional Services Questionnaire

N. continued.

- Construction-Related Surveying and Builder's Package Surveys
- American Land Title Association (ALTA) Surveys

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

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

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

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

When needed, BFM provides **bathymetric surveying** to handle **any hydrographic surveying tasks.** For large rivers and bodies of water, we are 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. We use Hypack Software to process collected data. Further, BFM can execute multi-beam scans, side scans and magnetometer surveys upon request.

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**.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 3 | **CAPACITY FOR TIMELY COMPLETION**

BFM has the manpower and equipment to execute any surveying task within the reasonable time set forth by a contract or project engineer. It is our 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,** Executive Vice President, 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.

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

Gary J. Lambert, Jr., PLS, Vice President is a **registered Professional Land Surveyor** and provides Project Management & Drafting Oversight and is the first point of contact for clients on technical matters. He meets with engineering, architectural, and government officials to discuss various project needs.

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 Corporation 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 State 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 over 40 years with BFM. **He has provided professional surveying services for thousands of projects for and throughout Jefferson Parish.**

CRITERIA 5 | **LOCATION OF THE 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.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | **LEGAL STATEMENT**

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 over 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 Dept.
(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)

Khalid L. Saleh, PhD, Capital Program Administrator, New Orleans Dept. of Public Works
(504-658-8000 | khsaleh@nola.gov)

Ben Lapine, Acting Director, Department of Drainage, Jefferson Parish
(504-736-6661 | JPSewerage@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:** June 6, 2024

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	09/30/2025	Mr. Ralph P. Fontcuberta Jr. # PLS.0004329

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: PLS.0004329
Expiration Date: 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

Mr. Chad Mitchell Poche

License/Certificate Type - Number: PE.0027667
Expiration Date: 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

Mr. Gary James Lambert Jr.

License/Certificate Type - Number: PLS.0005259
Expiration Date: 03/31/2026
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. William Mead Farber

License/Certificate Type - Number: EI.0033903
Expiration Date: 03/31/2025
Status: Active

LOUISIANA ECONOMIC DEVELOPMENT

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

LOUISIANA ECONOMIC DEVELOPMENT

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 9/13/2023 to 9/13/2024 .

Certification No. 9551

Stephanie Hartman,
Director, Entrepreneurial Services

City of Kenner
1926 18th Street
Kenner, LA 70062

BFM CORPORATION
15 VETERANS BLVD
KENNER, LA 70062

** NOTICE **

This license becomes null & void if ownership, business name or address is changed. Licensee must apply within 10 days of such change for transfer. Fee will apply. All applicable building & zoning regulations pertaining to business location must be followed.

2024

Business License

Business License ID
407

Type
LIMITED LIABILITY COMPANY
SURVEYING SERVICES

Number
1595

Issued
01/09/2024

Valid thru
12/31/2024

BFM CORPORATION, LLC
15 VETERANS MEMORIAL BLVD
KENNER, LA 70062

*** * * POST THIS LICENSE IN A CONSPICUOUS PLACE * * ***

Jefferson Parish
State of Louisiana

Gulf South Engineering and Testing, Inc.
TEC Questionnaire






BKI BURK-KLEINPETER, INC.
ENGINEERING · PLANNING · ENVIRONMENTAL

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

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of Routine Engineering Services for

Water Projects in Jefferson Parish

SOQ **24-013** | Resolution No. **144203**

B. Firm Name & Address:

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

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

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:

Chad M. Poché, P.E., Executive Vice President
504-305-4401 | 504-460-5239 cell | cpoche@gulfsoutheng.com
Registered Professional Civil Engineer (Louisiana No. 27667; since 1998)

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:

Chad M. Poché, P.E., Executive Vice President
504-305-4401 | 504-460-5239 cell | cpoche@gulfsoutheng.com
Registered Professional Civil Engineer (Louisiana No. 27667; since 1998)

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

7	Administrative		Estimators		Specification Writers
	Architects (Licensed)		Geologists		Structural Engineers
	Chemical Engineers	2	Geotechnical Engineers		Graduate Engineers
	Civil Engineers		Interior Designers	1	Project Managers
10	Construction Inspectors		Landscape Architects		Clerical (*see Administrative*)
	Ecologists		Land Surveyor (*Apprentice*)		Grant/Funding Specialist
	Electrical Engineers		Mechanical Engineers		Sanitary Engineers
	Engineer Intern		Environmental Engineers	1	*CMT Supervisor*
1	Professional Land Surveyors			1	*Construction Svcs Manager*
				4	*Laboratory Personnel*
				3	*Soil Boring Personnel*
				30	**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.

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

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

30 *(all personnel will be available for assignment to the project)*

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 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:

Chad M. Poché, P.E.
Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Geotechnical Engineer / Principal In Charge

Name of Firm with which associated:

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

Years' experience with this Firm:

13 years (founded Gulf South in 2011);
31 years total (1993)

BFM Corporation, LLC | 2017 to present
Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Eustis Engineering | 1996 to 2001
Soil Testing Engineers, Inc. | 1993 to 1996

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 Executive 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.

TEC Professional Services Questionnaire

Other experience and qualifications: **Chad M. Poché, P.E. (continued)**

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.

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

Water Main Improvements (5 Sites), LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of new water main pipeline (approximately 16,500 linear feet) between Cardinal Street and Woodland Drive in LaPlace, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 per jack and bore site) each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses with recommendations for the temporary retaining system (TRS; a sheetpile wall for excavation), dewatering, sheet pile design parameters. ($15,500 (fee); 2023)

LaPlace Water Source Project: New Intake, Pump Stations & Pretreatment Facility, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($100,000 (fee); ongoing)

Membrane Water Treatment Plant Expansion, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the expansion of the existing Membrane WTP project. Structures include the water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling six undisturbed soil borings (60 ft.) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($26,795 (fee); 2023)

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Bryson S. Beard, P.E., ACI
Associate Geotechnical Engineer/Field Engineer

Project Assignment:

Associate Geotechnical Engineer/Field Engineer

Name of Firm with which associated:

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

Years' experience with this Firm:

2 years (joined Gulf South in 2022);
3 years total (2021)

Gulf South Engineering and Testing, Inc. | 2022 to present
TetraTech, Inc. | 2021 to 2022

Education: Degree(s)/Year/Specialization:

B.S., Geological Engineering (2021; University of Mississippi)

Active Registration: Year first registered/discipline:

Louisiana P.E. License Passed October 2023
Georgia, Engineering Intern (No. EIT029180, 2022)

Other experience and qualifications relevant to the proposed Project:

Bryson S. Beard, P.E., is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. He has performed geotechnical engineering analyses consisting of shallow and deep foundations, slope stability, TRS and sheetpile wall design, settlement, pavement design, etc., and has prepared engineering reports. Mr. Beard's experience in the field includes surface and subsurface soil sampling, water sampling, and soil classification. His 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. He is experienced with laboratory sample preparation and testing as well as air sampling and soil gas sampling.

Mr. Bryson recently passed his Louisiana Professional Engineering test and will be a noted P.E. for the State of Louisiana once he fulfills the apprenticeship requirements set forth by LAPELS.

LaPlace Water Source Project: New Intake, Pump Stations & Pretreatment Facility, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($100,000 (fee); ongoing)

TEC Professional Services Questionnaire

Other experience and qualifications: **Bryson S. Beard, P.E., ACI (continued)**

Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane), Harahan, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new elevated generator platform at the Midway Soniat Canal pump station off Silver Oak Lane in Harahan, LA. Gulf South's scope of services includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($7,500 (fee); 2022)

Membrane Water Treatment Plant Expansion, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the expansion of the existing Membrane WTP project in LaPlace, LA. Structures include the water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling six undisturbed soil borings (60 ft.) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($26,795 (fee); 2023)

Water Main Improvements (5 Sites), LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of new water main pipeline (approximately 16,500 linear feet) between Cardinal Street and Woodland Drive in LaPlace, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 per jack and bore site) each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses with recommendations for the temporary retaining system (TRS; a sheetpile wall for excavation), dewatering, sheet pile design parameters. ($15,500 (fee); 2023)

Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, LA. Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station located in Kenner, LA. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report. ($48,000 (fee); 2024)

Bucktown Harbor New Dock and Loading Area, Metairie, Jefferson Parish, LA. Geotechnical engineering services for construction of a new dock and bulkhead at Jefferson Parish's Bucktown Harbor in Metairie, LA. Gulf South's scope includes drilling one boring to a depth of 50 feet below the ground surface and one boring in Lake Pontchartrain to a depth of 50 feet below mudline, laboratory testing, engineering analyses (allowable pile load capacities, slope stability, sheetpile wall analyses), and general construction procedures and recommendations. ($10,500 (fee); 2022)

Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA. Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. ($14,000 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

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

Project Assignment:

Laboratory Manager; Laboratory Technician

Name of Firm with which associated:

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

Years' experience with this Firm:

13 years (joined Gulf South in 2011);
13 years total (2011)

Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Soil Testing Engineers, Inc. | 2006 to 2007

Education: Degree(s)/Year/Specialization:

A.D., General Studies (2006; Nunez Community College)

Active Registration: Year first registered/discipline:

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

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.

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

Raw Water Intake (RWI) Structure Rehabilitation, Plaquemine, Iberville Parish, LA. Geotechnical engineering services for the construction of a replacement water pipeline and intake structure within the Intercostal Water Way (IWW) near Highway 3066 (Bayou Road) in Iberville Parish, LA.

TEC Professional Services Questionnaire

Other experience and qualifications: **Joseph H. "Trey" Binder, III, ACI (continued)**

Gulf South's scope includes drilling three undisturbed soil borings (depths of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. ($17,300 (fee); 2020)

LaPlace Water Source Project: New Intake, Pump Stations & Pretreatment Facility, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($100,000 (fee); ongoing)

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

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

Airline Highway Backwater Protection Project, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, execution of laboratory testing, provision of engineering analyses (bearing values, bedding & backfills settlement, pile capacities, earth pressures, slope stability, cofferdam analyses, levee analyses) and establishing general construction procedures and recommendations. ($55,000 (fee); 2020)

Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane), Harahan, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new elevated generator platform at the Midway Soniat Canal pump station off Silver Oak Lane in Harahan, LA. Gulf South's scope of services includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($7,500 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Eric A. Paille, C.E.T., ACI
Construction Services Manager

Project Assignment:

Construction Services Manager

Name of Firm with which associated:

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

Years' experience with this Firm:

13 years (joined Gulf South in 2011);
35 years total (1989)

Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Soil Testing Engineers, Inc. | 1988 to 2007

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

ACI-I Field Technician (since 1991; No. 929012)
Certified Engineering Technician (since 1992)
Nuclear Gauge Safety Training (since1994; No. 061321)
Pile Driving Analyzer/CAPWAP, OSHA 40 HAZWOPER

Other experience and qualifications relevant to the proposed Project:

Eric A. Paille, C.E.T., ACI, serves as Gulf South's Construction Services Manager as well as the manager of our Gonzales office. He has experience as a technician, inspector, and testing manager, and is knowledgeable in all aspects of construction materials testing and construction inspection. Mr. Paille has performed all applicable field and soil tests over the past 30+ years. In addition, he is certified in the safe use and handling of the nuclear density gauge. He received PDA training in 2003 and has knowledge of PDA testing along with significant experience with pile driving analyzers. Mr. Paille is one of the most knowledgeable people in our industry.

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

Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA. Project consisted of the construction of new below grade drainage features and piping for the Jefferson

TEC Professional Services Questionnaire

Other experience and qualifications: **Eric A. Paille, C.E.T., ACI (continued)**

Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. ($7,000 (fee); 2016)

St. Peter's Ditch – Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA. Project consisted of the construction of a new pump station and below grade culverts and piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Scope included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. ($110,000 (fee); 2016)

Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA. Project consisted of the construction of new drainage features for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Gulf South's scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. ($30,000 (fee); 2016)

Geotechnical Exploration Proposal for the Lafreniere Park Healthtrack, Metairie, Jefferson Parish, LA. Gulf South was selected to provide a Geotechnical Exploration for the project site which consists of the reconstruction of the existing exercise walkway and the addition of approximately 1,000 feet of new walkway at Lafreniere Park in Metairie, LA. The existing walkway is approximately 2.5 miles long and will consist of the removal and reconstruction of the pavement and base using an asphalt paved section. The new section will consist of a concrete paved walkway. Gulf South's scope of work includes subsurface exploration, associated geotechnical laboratory testing, and engineering services based upon outlined project requirements. ($12,000 (fee); 2022)

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

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)

Jefferson Parish Department of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA. Project consisted of the construction of a new warehouse for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Gulf South's 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 soil sampling and field density tests, steel inspection, and asphalt testing and inspection. ($90,000 (fee); 2017)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ian Kerner Poché, ACI
Assistant Laboratory Supervisor

Project Assignment:

Assistant Laboratory Supervisor

Name of Firm with which associated:

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

Years' experience with this Firm:

7 years (joined Gulf South in 2017);
7 years total (2017)

Gulf South Engineering and Testing, Inc. | 2017 to present

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

ACI Concrete Field Testing Technician - Grade 1 (exp 2028 03)
ACI Aggregate Testing Technician - Level 1 (exp 2029 02 27)

Other experience and qualifications relevant to the proposed Project:

Ian Poché has worked in Gulf South's laboratory for several years and has experience with virtually every type of soil test. He has also helped when needed in the CMT department and has concrete testing experience, and is an ACI-certified Concrete Field Testing Technician.

Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, LA. Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station located in Kenner, LA. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report. ($48,000 (fee); 2024)

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)

TEC Professional Services Questionnaire

Other experience and qualifications: **Ian Kerner Poché, ACI (continued)**

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

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

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); 2023)

Dellwood Drainage Pump Station Improvement (Sun Valley Drive & Front Street), City of Slidell, LA. Geotechnical engineering services for construction improvements to the existing drainage pump station at the end of Sun Valley Drive and Front Street in Slidell, LA. Gulf South's scope of services includes drilling a single boring to a depth of 50 feet below the ground surface, laboratory testing, engineering analyses (bearing values, settlement, pile and shaft capacities) and general construction procedures and recommendations. ($4,000 (fee); 2022)

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)

Bayou Des Allemands Gate, Upper Barataria Risk Reduction Program Segment 3, St. Charles Parish, LA. Geotechnical investigation for construction of a new swinging barge gate structure within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 2 at 120 ft., 1 at 100 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. One boring was performed over water; the remaining borings were performed over land. ($145,885 (fee); 2021)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Brandon A. Paille, ACI
Construction Materials Testing (CMT) Supervisor/Project Manager

Project Assignment:

Construction Materials Testing (CMT) Supervisor/Project Manager

Name of Firm with which associated:

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

Years' experience with this Firm:

5 years (2012-2016; 2023 to present);
14 years total (2010)

Gulf South Engineering and Testing, Inc. | 2023 to present
Ascension Parish Sheriff's Office | 2016 to 2023
Gulf South Engineering and Testing, Inc. | 2012 to 2016
Ardaman and Associates, Inc. | 2010 to 2012

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

APNGA Nuclear Gauge Safety
ACI Field Technician Level 1
OSHA Safety Training – 8 hr.

Other experience and qualifications relevant to the proposed Project:

Brandon A. Paille, ACI has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, hydrometers, Atterberg limits, organic contents, moisture contents, proctor compaction tests, sieve analyses, as well as extrusion of samples. Mr. Paille's field experience includes soil inspection and testing consisting of nuclear density testing, soil boring logging, concrete testing and inspections, timber and precast pile logging and vibration monitoring. In Mr. Paille's years in the construction materials testing industry, he has obtained a vast amount of knowledge and experience which makes him an integral part of our Gulf South Team.

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

New Dormitory - Marine Fisheries Facility, LA Department of Wildlife and Fisheries, Grand Isle, Jefferson Parish, LA. Geotechnical investigation for new dormitory at the LA Dept. of Wildlife and Fisheries' facility in Grand Isle, LA. Scope of work included drilling 2 soil borings to 10 and 50 feet in depth, performing laboratory testing, and providing geotechnical engineering analyses

TEC Professional Services Questionnaire

Other experience and qualifications: **Brandon A. Paille, ACI (continued)**

consisting of allowable pile load capacities, estimates of settlement, and rigid and aggregate paving design recommendations. ($3,500 (fee); 2013)

Taft Park Drainage Improvements, Jefferson Parish, LA. Perform inspection and testing during construction of various drainage improvements at Taft Park. Scope of services provided by Gulf South included asphalt and/or concrete testing and inspection, field density tests, on-site inspection and documentation, and laboratory testing. ($25,000 (fee); 2015)

Bonnabel Boat Launch Ramp Replacement, Jefferson Parish, LA. Geotechnical investigation for improvement/replacement of the existing boat ramps at the Bonnabel Boat Launch in Metairie, LA. The expansion consists of 3 (50'x60') pile supported concrete ramps. Scope of work included drilling two (2) soil borings to a depth of 60 feet each and providing laboratory testing, and geotechnical engineering analysis consisting of pile load capacities, estimates of settlement, and general construction recommendations. ($4,000 (fee), 2014)

Bucktown Paddlers Launch, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes building earthwork, paving & concrete, concrete testing, soil density tests, pile inspection and modeling, and vibration monitoring. ($15,000; 2023)

Bucktown Birdsnest Learning Pavillion, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing, soil density tests, pile inspection and modeling, static pile load testing, and vibration monitoring. ($20,000 (fee); 2023)

Grand Gulf Nuclear Station, Port Gibson, Claiborne County, MS. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing, soil density tests, earthwork inspection and testing. Safety requirements and badging to enter facility were extensive. ($50,000 (fee); 2023)

Baton Rouge Zoo Laboratory, Baton Rouge, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing, soil density tests, and earthwork inspection and testing. ($500 (fee); 2023)

New North Terminal – Landside Project, Louis Armstrong New Orleans International Airport, LA. Gulf South performed field and laboratory testing during construction of the Cable Loop at the New North Terminal at the Louis Armstrong New Orleans International Airport in Kenner, Louisiana. Inspection consisted of earthwork and concrete testing. Gulf South provided QA oversight of the contractor for the owner for this $1.2 billion project which consists of the construction of a new terminal facility including a new 800,000 sf building, vehicle ramps, parking, etc. QA inspection consists of pile monitoring, concrete inspection and testing, earthwork testing and inspection, and steel inspection. ($200,000 (fee); 2019)

St. Amant High School AG Center Addition, Ascension Parish, LA. Gulf South provided field and laboratory testing during construction of the addition to the Ag Center building (located at 12035 LA Highway 431) at St. Amant High School in Ascension Parish, LA. Gulf South's scope of work includes concrete testing. ($600 (fee); 2021)

TEC Professional Services Questionnaire

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

PROJECT NO. 2		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Water Main Improvements (5 Sites), LaPlace, St. John the Baptist Parish, Louisiana **Meyer Engineers, Ltd.** 4937 Hearst Street Metairie LA 70001 **Eric Colwart, P.E.**, 504-885-9892 colwart@meyer-e-l.com	Geotechnical engineering services for the construction of new water main pipeline (approximately 16,500 linear feet) between Cardinal Street and Woodland Drive in LaPlace, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 per jack and bore site) each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses with recommendations for the temporary retaining system (TRS; a sheetpile wall for excavation), dewatering, sheet pile design parameters.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2024	N/A	$15,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
LaPlace Water Source Project: New Intake, Pump Stations & Pretreatment Facility, LaPlace, St. John the Baptist Parish, Louisiana **Barowka & Bonura LLC** 209 Canal Street Metairie LA 70005 **Jeff Bonura, P.E.,** 504-828-0030 jbonura@bbecllc.com	Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, laboratory testing, engineering analyses (bearing values, bedding & backfills settlement, pile capacities, earth pressures, slope stability, cofferdam analyses, levee analyses) and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2024	N/A	$100,000 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Membrane Water Treatment Plant Expansion, LaPlace, St. John the Baptist Parish, Louisiana **CDMSmith, Inc.** 1515 Poydras Street Suite 1350 New Orleans LA 70112 **Clayton Driggs,** 225-698-1600 driggscj@cdmsmith.com	Geotechnical engineering services for the expansion of the existing Membrane WTP project in LaPlace, LA. Structures include the water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling six undisturbed soil borings (60 ft.) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2023	N/A	$26,795 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Raw Water Intake (RWI) Structure Rehabilitation, Plaquemine, Iberville Parish, Louisiana **Pan American Engineers** 1717 Jackson Street Alexandria LA 71301 **Marcus J. Guillory, P.E.,** 318-473-2100 marcus@paealex.com	Geotechnical engineering services for the construction of a replacement water pipeline and intake structure within the Intercostal Water Way (IWW) near Highway 3066 (Bayou Road) in Iberville Parish, LA. Gulf South's scope includes drilling three undisturbed soil borings (depths of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
January 2020	N/A	$17,300 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Water Well (Town Center Parkway & I-10 Crossings), City of Slidell, Louisiana **City of Slidell** **Department of Engineering** 250 Bouscaren St Ste 302 Slidell LA 70458 **Blaine Clancy, P.E.,** 985-646-6124 bclancy@cityofslidell.org	Geotechnical investigation for construction of new water system improvements near Town Center Parkway in Slidell, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 50 ft.; one at 15 ft.), laboratory testing, and engineering analyses including net soil bearing values, below grade and pipeline foundation recommendations, pile load capacities for compression, tension, lateral cases, estimates of settlement, passive lateral earth pressures, modulus of soil reaction, soil resistivity values, bedding and backfill recommendations, rigid and/or flexible pavement design recommendations, special local soil conditions, and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
December 2018	N/A	$9,900 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Bayou Sauvage Water Control Pipe Replacement, U.S. Wildlife & Fisheries, New Orleans, Louisiana **Johnson McAdams** 340 Poplar View Lane East, Suite 4 Collierville TN 38017 **Chip Johnson, P.E.,** 901-861-4200 chipjohnson@bellsouth.net	Geotechnical investigation for drainage pipe replacement at 2 sites for the U. S. Fish and Wildlife in New Orleans, LA. New drainage pipes will be 6 feet in diameter. Drill 1 boring to 20 feet in depth at each site and perform laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
July 2012	N/A	$3,500 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane), Harahan, Jefferson Parish, Louisiana **Burk-Kleinpeter, Inc.** 4176 Canal Street New Orleans LA 70119 **Henry M. Picard, III, P.E.,** 504-486-5901 hpicard@bkiusa.com	Geotechnical engineering services for the construction of a new elevated generator platform at the Midway Soniat Canal pump station off Silver Oak Lane in Harahan, LA. Gulf South's scope of services includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses (pile capacities & settlement) and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
December 2022	N/A	$7,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Airline Highway Backwater Protection Project, St. John the Baptist Parish, Louisiana **Burk-Kleinpeter, Inc.** 4176 Canal Street New Orleans LA 70119 **David Boyd**, 504-486-5901 dboyd@bkiusa.com	Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, execution of laboratory testing, provision of engineering analyses (bearing values, bedding & backfills settlement, pile capacities, earth pressures, slope stability, cofferdam analyses, levee analyses) and establishing general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
December 2020	N/A	$55,000 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, Louisiana **MSMM Engineering, LLC** 7640 S. Carrollton Ave Ste 220 New Orleans LA 70119 **Scott G. Chehardy, P.E.,** 985-233-9763 schehardy@msmmeng.com	Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station located in Kenner, LA. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
March 2024	N/A	$48,000 (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.	*Gulf South Enginering and Testing, Inc. is not currently, nor has it previously been involved, in litigation with Jefferson Parish.*		
2.			
3.			
4.			

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

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

CRITERIA 1 | PROFESSIONAL TRAINING AND 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 nearly three dozen employees.

Gulf South provides a broad range of geotechnical related services, completing more than 100 geotechnical engineering projects and 300 construction materials testing and inspection projects each year. These projects typically include soil borings (shallow and deep borings), laboratory testing (AASHTO, ASTM methods, etc.), soil classification (USCS), geotechnical engineering, and construction material testing and field inspection.

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

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.

TEC Professional Services Questionnaire

N. continued.

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. Further, 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 & inspection services for structures, earthwork, foundations, pipelines, and pavements. The range of services provided includes:

- Fill and base compaction and density testing
- Vibration monitoring

TEC Professional Services Questionnaire

N. continued.

- Pre- and post-construction inspection
- Concrete testing and inspection
- Soil testing (field and laboratory)
- Asphalt testing
- Pile (driven & augercast) and shaft installation monitoring
- Load tests
- Earthwork/proof roll inspection
- Welding inspection
- Steel inspection
- Noise monitoring
- 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 North 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 can readily meet the time and budget constraints for projects assigned to this contract. Our current workload is such that we can expeditiously complete projects for this contract.

CRITERIA 3 | **CAPACITY FOR TIMELY COMPLETION**

Activity is dependent on the scope of work as well as site access and conditions, however; typically soil borings can be started within one week of receiving notice to proceed with a final product delivered within 3 to 4 weeks of completing the borings. Gulf South's workload & scheduling, coupled with our headquarters being nearby, will allow for assignment of key personnel shortly after any project is assigned.

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. 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..

CRITERIA 5 | **LOCATION OF THE PRINCIPAL OFFICE**

Gulf South Engineering and Testing has been headquartered in Jefferson Parish since beginning operations in 2011; our principal office is located in Jefferson Parish at 15 Veterans Memorial Boulevard in Kenner. We also maintain an office in Gonzales, LA.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | LEGAL STATEMENT

As stated in Item M, Gulf South has had no litigation, past or present, with Jefferson Parish, nor any of our clients.

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. Founding principal and Executive 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.

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.

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

Neil Schneider, CCM, P.E., Director, Capital Projects, Jefferson Parish
(504-736-6783 | JPPW@jeffparish.net)

Ben Lepine, Acting Director, Drainage Department, Jefferson Parish
(504-736-6751 | JPDrainage@jeffparish.net)

Angela DeSoto, P.E., Director, Engineering Department, Jefferson Parish
(504-736-6511 | ADeSoto@jeffparish.net)

Mark R. Drewes, P.E., Director, Public Works Department, Jefferson Parish
(504-736-6783 | JPPW@jeffparish.net)

Michael B. Cooper, Parish President, St. Tammany Parish
(985-898-2362 | president@stpgov.org)

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

José A. Gonzales, CAO, City of Kenner
(504-468-4090 | jgonzalez@kenner.la.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: Executive Vice President **Date:** June 14, 2024

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

Name:	Public Address:
Gulf South Engineering and Testing, Inc.	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	03/31/2025	Mr. Chad Mitchell Poche# PE.0027667

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

Mr. Chad Mitchell Poche

License/Certificate Type - Number	Expiration Date
PE.0027667	09/30/2024

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. Ralph P. Fontcuberta Jr.

License/Certificate Type - Number	Expiration Date
PLS.0004329	09/30/2024

Status: Active

LED LOUISIANA ECONOMIC DEVELOPMENT

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 12/27/2023 to 12/27/2024 .

Certification No. 11011

Stephanie Hartman,
Director, Entrepreneurial Services

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

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:

06 MAY 2024 AT 14:40 HOURS

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 05/03/2026

PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON OUR PUBLIC WEBSITE: **https://mtc.erdc.dren.mil**

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

AGGREGATE

Aggregate - C 128 - Specific Gravity & Absorption in Fine Aggregate
Aggregate - C 566 - Total Moisture Content
Aggregate - C 702 - Reducing Samples to Testing Size

CONCRETE

Concrete - C 31 - Making and Curing Test Specimens in the Field
Concrete - C 39 - Compressive Strength of Cylindrical Specimens
Concrete - C 138 - Unit Weight and Air Content by Gravimetric
Concrete - C 143 - Slump
Concrete - C 172 - Sampling
Concrete - C 231 - Air Content by Pressure ***required if C173 not performed***
Concrete - C 511 - Moist Cabinets, Moist Rooms, Water Storage Tanks
Concrete - C 1064 - Temperature of Concrete
Concrete - C 1077 - Concrete and Concrete Aggregate Testing Standards (Quality Standards)
Concrete - C 1231 - Unbonded Caps

SOILS

Soils - E 329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
Soils - D 421 - Dry Preparation for Particle Size Distribution & Soil Constants
Soils - D 422 - Particle Size Analysis (Sieve and Hydrometer)
Soils - D 698 - Compaction Characteristics by Standard Effort
Soils - D 1140 - Material Finer than 75 µm (No. 200) Sieve
Soils - D 1556 - Density & Unit Weight by Sand Cone
Soils - D 1557 - Compaction Characteristics by Modified Effort
Soils - D 2166 - Unconfined Compressive Strength
Soils - D 2216 - Water Content
Soils - D 2487 - Classification of Soils
Soils - D 2488 - Description & Identification of Soils (Visual-Manual Procedure)
Soils - D 2974 - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils
Soils - D 4318 - Liquid & Plastic Limits & Plasticity Index
Soils - D 4643 - Determination of Water Content of Soil by Microwave Oven
Soils - D 6938 - Density and Water Content by Shallow Depth Nuclear Method

AASHTO ACCREDITED

Certificate of Accreditation

American Association of State Highway and Transportation Officials
AASHTO

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 04/11/2024 at 12:54 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory

Avetta | **Diversity Champion** Award 2023

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Gulf South Engineering and Testing, Inc.

8/15/2023
DATE

SIGNATURE

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

Jefferson Parish
State of Louisiana

Creative Engineering Group, LLC
TEC Questionnaire






BKI BURK-KLEINPETER, INC.
ENGINEERING · PLANNING · ENVIRONMENTAL

CEG
CREATIVE ENGINEERING GROUP

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ No. 24-013 Routine Engineering Services for Water Projects - Resolution No. 144203

B. Firm Name & Address:

CEG
CREATIVE ENGINEERING GROUP

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) 2491-5706, rnolan@ceg-itl.com

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

_1_ Administrative	___ Estimators	___ Specification Writers
___ Architects (Licensed)	___ Geologists	___ Structural Engineers
___ Chemical Engineers	___ Geotechnical Engineers	___ Graduate Engineers
___ Civil Engineers	___ Interior Designers	___ Project Managers
___ Construction Inspectors	___ Landscape Architects	___ Clerical
___ Ecologists	___ Land Surveyor	___ Grant/Funding Specialist
_1_ Electrical Engineers	___ Mechanical Engineers	___ Sanitary Engineers
_1_ Engineer Intern	___ Environmental Engineers	___ Planners
___ Professional Land Surveyors	_2_ CADD	___ Designers
		_5_ 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.

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

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

CEG
CREATIVE ENGINEERING GROUP

Years' experience with this Firm:

>18

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 30 years experience in electrical engineering, including power distribution, emergency generators, lighting and controls, fire alarm systems, telephone and data infrasructure, intercom and security systems.

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

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.

Midway and Soniat Lift Station Generator - *River Ridge, LA* - Provided electrical engineering services to replace existing generator and motor control center at sewer/drainage pump station. New generator was sized to power (1) sewer pump and (1) drainage pump. Designed new electrical service from utility and coordinated scope with sewer pump station contractor.

New Bayou Gauche Canal Bar Screen - *Des Allemands, LA / St. Charles Parish* - Provided electrical design services included new electrical service and generator for warehouse building and screen cleaners. Equipment was sized for future pump station rehabilitation.

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 elecrical 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 - *Chalmette, LA* - Following Hurricane Katrina, provided damage assessment services, cost estimates for the scope of work on the elecrical 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 Building B Hurricane Katrina Repairs - *Chalmette, 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.

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:	
Hurricane Katrina Damage Repairs - McDermott Hanger *New Orleans, LA* RCL Architecture 900 W. Causeway Approach Mandeville, LA 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. CEG provided cost estimates to the Architect for repair scope of work. 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:**
03/2009 (Est.)	$2,500,000 (Est.)	$200,000 (Est.)

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Repairs to C.F. Rowley School **St. Bernard Parish School Board** *Chalmette, LA* Lachin Architects 5190 Canal Blvd. Ste. 201 New Orleans, LA 70124 (504) 835-8013	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.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
10/2007 (Est.)	$6,500,000 (Est.)	$1,300,000 (Est.)

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Nunez Community College Building B Hurricane Katrina Repairs *Chalmette, LA* Lachin Architects 5190 Canal Blvd. Ste. 201 New Orleans, LA 70124 (504) 835-8013	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:**

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.

CEG CREATIVE ENGINEERING GROUP

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 30 years of experience, an electrical engineer intern with over 18 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:** Raymond H. Nolan, II, PE

Title: Owner/Senior Engineer **Date:** June 21,2024

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

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0003373	Active	12/06/2005	03/31/2026	Mr. Raymond Henry Nolan II # PE.0027697

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

Cut Here

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: PE.0027697

Expiration Date: 09/30/2024

Status: Active

Fold Here

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

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

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.