



**Jefferson Parish
TEC Professional Services
Questionnaire**

SOQ No. 23-008

Resolution No. 141453

**Professional Engineering
Services for the Grand Isle
Waterline Lowering
Project**

April 28, 2023

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provide Engineering Services for the Grand Isle Waterline Lowering Project

Resolution No. 141453

B. Firm Name & Address:



**527 West Esplanade Avenue, Suite 300
Kenner, Louisiana 70065**

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:

Jared B. Monceaux, P.E., President • LA License No. 32202 (2006)
 jmonceaux@harteng.com
 225-313-4617 • 225-313-6127 fax

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.

Jared B. Monceaux, P.E., President • LA License No. 32202 (2006)
 jmonceaux@harteng.com
 225-313-4617 • 225-313-6127 fax

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

2	Administrative		Estimators			Specification Writers
	Architects (Licensed)		Geologists		1	Structural Engineers
	Chemical Engineers		Geotechnical Engineers			Graduate Engineers
4	Civil Engineers		Interior Designers			Project Managers
2	Construction Inspectors		Landscape Architects			Clerical
	Ecologists		Land Surveyor			Grant/Funding Specialist
	Electrical Engineers		Mechanical Engineers			Sanitary Engineers
3	Engineer Intern	2	Environmental Engineers		2	Designer
	Professional Land Surveyors	1	CAD Draftsman		18	TOTAL
	Environmental Scientist	1	Transportation Engineer			

F. Is this submittal by a JOINT-VENTURE? Please check:

YES NO

If marked “No” skip to Section I. If marked “Yes” complete Sections G-H.

TEC Professional Services Questionnaire

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:**

Jared B. Monceaux, P.E.
President

Project Assignment:

Project Oversight

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

16 (2007)

Education: Degree(s)/Year/Specialization:

B.S. in Civil Engineering, 2001, University of Louisiana at Lafayette

Active registration: Year first registered/discipline:

Year First Registered: 2006

Discipline: Civil State: Louisiana License No.: 32202

Also registered in Mississippi (18867) & Florida (88044)

Other experiences and qualifications relevant to the proposed Project:

Completed "FHWA-NHI-142005 NEPA and the Transportation Decision-making Process" certification, hosted by LA DOTD/LTRC (2016)

Mr. Monceaux has over twenty years of engineering project management and design experience on municipal coastal and flood protection projects, specifically earthen and floodwalls, marsh creation and erosion control road, drainage, bridge, and sewer improvement projects. His coastal experience dates back to his internship in 1995-2001 with NRCS. Mr. Monceaux oversaw several marsh creation projects using terracing methods in Rockefeller Refuge, Cameron Parish. He also managed several erosion control structure repairs and replacements on the east bank of Calcasieu Lake. At HEI, Mr. Monceaux was part of the project management and design team of the beach erosion projects along Grand Isle and designed and managed several earthen and concrete floodwalls for USACE after Hurricane Katrina. Mr. Monceaux's responsibilities have included project management, design, various permitting, and quality control.

2007-070-WR, Grand Isle Waterline Improvements, Grand Isle, LA.: Project Manager & QA/QC for: Design of approximately 7,500 feet of new, 12-inch, C-900 waterline from Ludwig Lane and LA 1 to Admiral Craig and Pirates Cove Marina Road, determine whether existing roadway servitudes are adequate to construct the line, taking into consideration above and below ground pipelines and other features within and/or crossing the servitudes, and responsible for integrating the waterline design (installation through various means i.e. open-cut, jack and bore) with such pipelines and features and coordinate the effort with local property and pipeline owners as needed. (HEI Project No. 12-014-72)

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PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Jared B. Monceaux, P.E.
President

S&WB Contract No. R-053-2012, Water Line Replacement Program (Audubon, Uptown and West Riverside) Neighborhoods, New Orleans, LA: The purpose of this Project is to replace water lines in three neighborhoods on the New Orleans East Bank as a result of the floodwater from Hurricane Katrina in August 2005. The eligible water lines for replacement are based upon a FEMA and Board developed pipe evaluation criteria. All waterline work performed was coordinated with the City of New Orleans Street restoration program, Submerged Roads Program, ongoing Sewerage & Water Board projects for water point repairs, sewer repair and replacement projects. (HEI Project No. 11-016-04)

Bedico-Faubourg Interconnect 12 inch Waterline, St. Tammany Parish, LA: Prepare Construction Plans and Specifications, Bidding and Construction Management Services for 5,000 LF of 12" Waterline Extension. This project will connect two different water systems. (HEI Project No. 12-126-02)

10-inch Waterline Extension along Gause Boulevard, Slidell, LA: Prepare Construction Plans and Specifications, Bidding, and Construction Management Services for approximately 2,000 LF of Waterline Extension along Gause Boulevard. (HEI Project No. 12-090-12)

DPW Project. No. 2017-RR189, PW7120355; K17-420, RR189 Village De L'est Group C (FRC), New Orleans, LA: HEI provided professional engineering design services for FEMA-eligible street repairs and utility installations on four assigned streets within the Village De L'Est Group C Project boundary. Design work included horizontal and vertical design and modeling of fully reconstructed residential streets, hydraulic study for design and modeling of drainage system (pipe sizes ranging from 15" to 54", circular and arch), and design of water and sanitary sewer installations. (HEI Project No. 11-076-08)

USACE Section 219 Program STAG Grant Environmental Information Document and Environmental Infrastructure Program Management USACE No. W912P8-04-D-0005, Ascension Parish, LA: HEI provided professional engineering services to the Corps of Engineers, New Orleans District for program management of the Corps' Environmental Infrastructure Program for Ascension Parish, LA. The work was part of the Corps' Section 219 Program and included assisting the New Orleans District in facilitating and coordinating needed water and wastewater projects in the Parish, including the Parish EPA STAG grant and Community Development Block grants and the area wide wastewater projects on the east bank. HEI services included interfacing with Parish officials, project engineering firms, and federal and state agencies. Specific projects involved included the following: ACUD No. 1 Water Distribution System Improvements; Hillaryville Community Wastewater Improvements; Darrow Sanitary Sewer System Project Cost Shortfall; Wastewater Planning and Tie-in of the Ascension Parish Jail to the City of Donaldsonville Wastewater Treatment Plant (WWTP); Design of the Ascension Parish regional WWTP; Planning for Livingston water supplies to serve Ascension Parish residents; Facilities Plan Review. (HEI Project No. 11-095-01-102)

Faubourg Coquille Water System – Water Quality Evaluation, St. Tammany, LA: HEI is providing engineering services to conduct an analysis of Tammany Utilities' Faubourg Coquille water system. Tammany Utilities' has five wells on the Faubourg Coquille water system that include the Diversified Water Well, Faubourg Water Well, Timber Branch Water Well, Black River Water Well and the Christwood Water Well. The Faubourg Coquille water system currently serves approximately 4,300 customers. HEI is sampling and testing each well

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PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Jared B. Monceaux, P.E.
President

site to analyze for inorganics (catons and anions), silicon, TOC, silt density index (SDI) and soft metals. The data analysis will include a water chemistry balance. (HEI Project # 12-126-01-10)

Water Utility System Due Diligence Review and Evaluation (People's Water System), Ascension Parish, LA:

Professional engineering services to include due diligence review and evaluation of infrastructure and related items associated with the possible purchase of a private water utility system in Ascension Parish. The purpose of this report is to present the results of an engineering review and evaluation of the potable water system, plant, and facilities owned and operated by the Peoples Water Service of Donaldsonville, Louisiana (PWS) serving the City of Donaldsonville and adjacent, limited portions of the unincorporated west bank Ascension Parish, Louisiana. The review and evaluation of the PWS facilities was made on behalf of the Parish of Ascension for the purpose of establishing an equitable basis for the possible purchase of the facilities. (HEI Project #12-031-08)

Utilities General Engineering and Technical Support Services – Task Order No. 1 – SCADA (UTL-17-002)

Ascension, LA: HEI is providing services for the SCADA system upgrades for PUA and ACUD #1 System Sites, including the Palo Alto Water Tower, the GST, RW Intake, and EST. Services include Design, Bidding, and Construction Administration. (HEI Project No. 12-031-12)

DPW FEMA No. 21032, Contract No. 1268, MK19-787, Project No. 2019-RR142, RR142 Pontchartrain Park Group C (FRC), New Orleans, LA:

Design services for FEMA-eligible street repairs and utility installations on four assigned streets within the Village De L'est Group C Project boundary. Improvements include the following design features: roadway pavement and base construction complete with curbs, sidewalks, drives, and ADA handicapped ramps; subsurface drainage, water, and sanitary sewer installation. Final grades designed to be compatible with adjacent properties and existing pavements and provide for a positive flow of water towards catch basins. Project technical design work included horizontal and vertical design and modeling of fully reconstructed residential streets, hydraulic study for design and modeling of drainage system (pipe sizes ranging from 15" to 54", circular and arch), and design of water and sanitary sewer installations. (HEI Project No. 11-076-09)

DPW FEMA No. 21032, Contract No. 1271, MK19-788, Project No. 2019-RR143, RR143 Pontchartrain Park Group D (FRC), New Orleans, LA:

Provided professional engineering design services for FEMA-eligible street repairs and utility installations on assigned streets within the Pontchartrain Park neighborhood. Improvements include the following design features: roadway pavement and base construction complete with curbs, sidewalks, drives, and ADA handicapped ramps; subsurface drainage, water, and sanitary sewer installation. Final grades designed to be compatible with adjacent properties and existing pavements and provide for a positive flow of water towards catch basins. Project technical design work included horizontal and vertical design and modeling of fully reconstructed residential streets, hydraulic study for design and modeling of drainage system (pipe sizes ranging from 15" to 54", circular and arch), and design of water and sanitary sewer installations. Full roadway reconstruction and installation of 12" – 36" (EQ.) storm drains, 8" water mains, and 8" sanitary sewer gravity mains. Project work located along Mithra St., Providence Pl., Pressburg St., Prentiss Ave., and Press Dr.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:**

Danielle B. Connelly, P.E.
Project Engineer

Project Assignment:

Project Engineer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

18 (2005)

Education: Degree(s)/Year/Specialization:

B.S., 2006, Civil Engineering, Louisiana State University (LSU), Baton Rouge, LA

Active registration: Year first registered/discipline:

Active Registration: Year First Registered: 2011
Discipline: Civil State: Louisiana License No.: 36284

Other experiences and qualifications relevant to the proposed Project:

Ms. Connelly has over fifteen years of experience as a design engineer and project manager for a variety of projects throughout southern Louisiana for several local and state government agencies. Ms. Connelly's design experience includes:

- Roadway and Bridge Design for local corridors and highways (geometric, traffic, and sequencing),
- Utility Designs for Water Distribution and Sanitary Sewer Collection Systems (gravity and force main via traditional and trenchless installation methods),
- Drainage Designs (canals, levees, gravity and force main sub-surface systems via traditional and trenchless installation methods), and Environmental and Civil Site Design for sanitary sewer and drainage pump stations in simple duplex, triplex, and dual-bay multi-pump facilities.
- ATTSA Traffic Control Supervisor and Technician 4/2017

2007-070-WR, Grand Isle Waterline Improvement, Grand Isle, LA: Design of approximately 7500 feet of new, 12-inch, C-900 waterline from Ludwig Lane and LA 1 to Admiral Craig and Pirates Cove Marina Road, determine whether existing roadway servitudes are adequate to construct the line, taking into consideration above and below ground pipelines and other features within and/or crossing the servitudes, and responsible for integrating the waterline design with such pipelines and features and coordinate the effort with local property and pipeline owners as needed. (HEI Project No. 12-014-72)

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Name & Title:

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Project Engineer

Construction Administration. (HEI Project No. 12-031-12)

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Harahan Pump to the River, DPW Project No. 2001-046F-DR(SELA), Jefferson Parish, LA: This is a unique project in terms of complexity, administration, design, and rights of way to relieve chronic flooding in southeastern portion of east bank of Jefferson Parish via Southeast Louisiana Urban Flood Control Project (SELA), of the COE: A 700’ long Suction canal; a 1,200 cfs pumping station; Three 9,000’ long 84” diameter discharge piping to the Mississippi River levee, Reinforced concrete levee crossing of discharge pipes; Reinforced concrete discharge basin in Mississippi River; coordination with local community, regulatory agencies and DOTD regarding a very old oak tree (the Old Dickory); and relocation of several high tension electrical transmission towers. Project involved Detailed Design, construction documents (Plans and Specifications), cost estimate, engineering during construction, and construction management/QA, for construction cost of \$106.8 Million. (HEI Project No. 11-012-09)

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PROFESSIONAL IN CHARGE OF PROJECT:**Name & Title:**

Oscar J. Boudreaux, Jr., P.E.
Environmental Engineer

Project Assignment:

Environmental Engineer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

4 (2019)

Education: Degree(s)/Year/Specialization:

1976 Bachelor of Science in Civil Engineering, Louisiana State University
1975 Bachelor of Science (Engineering Science) College of Life, Science and Technology, Nicholls State University

Active registration: Year first registered/discipline:

Year First Registered: 1980
Discipline: Civil/Environmental State: Louisiana License No.: 18859
Also registered in Mississippi (16235)

Other experiences and qualifications relevant to the proposed Project:

During the last thirteen years, Mr. Boudreaux has been responsible for the design and/or construction of eleven (11) activated sludge extended aeration wastewater treatment facilities and three (3) other types of treatment facilities. His primary responsibility was to coordinate all disciplines and provide the technical design for facilities, whose average flows range from 0.17 MGD to 5.0 MGD. Construction costs varied from a low of \$900,000 to a high of \$13,000,000. These projects have a combined drawing list of over 750 sheets of technical data. Mr. Boudreaux is considered the leading designer of extended aeration with the use of intra-channel and external clarifiers in the United States by virtue of the fact that he has successfully designed and placed into operation fourteen (14) facilities in the States of Texas, Louisiana, and Mississippi in the last several years. In addition to these facilities, Mr. Boudreaux offers consulting advice to other design professionals across the United States as needed. He has visited and offers recommendations on facilities having operational problems. During his employment, he has visited over 200 wastewater facilities across the US in expanding his knowledge of the wastewater industry.

As a service to his clients Mr. Boudreaux has taught wastewater treatment operations and maintenance class to prepare the operators for their certification license. His expertise in this field offers the operators the basis of wastewater treatment in addition to his insights on design.

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PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Oscar J. Boudreaux, Jr., P.E.
Environmental Engineer

City of Opelousas Water Treatment Plant: Renovation of a three (3) MGD water treatment facility for the city and a 1.25 MGD water treatment facility for the Town of Church Point is credited to his design leadership on these projects.

City of Westwego Inflow/Infiltration Analysis and Sewer System Evaluation Survey: The fieldwork included the collection of dry and wet weather flow information, dye testing for monitoring inflow sources, and close circuit television of the system. Afterward, he performed the analysis of the system.

City of Baton Rouge Inflow/Infiltration Analysis and Sewer System Evaluation Survey: The fieldwork included the collection of dry and wet weather flow information, dye testing for monitoring inflow sources, and close circuit television of the system. Afterward, he performed the analysis of the system.

Aerated Lagoon Plant, Reserve, LA.: Mr. Boudreaux made improvements to a 3.0 MGD Aerated Lagoon plant "inside" an existing facultative lagoon in Reserve at a cost of \$2.75 per gallon. Based on his design, we were able to increase the flow at this facility to 5.0 MGD at a later date due to the lower influent BOD levels. He is capable of putting together a team that can utilize existing infrastructure and lower the costs of a project with his understanding of wastewater treatment.

Ascension Parish East Bank Sewer Consolidation, Ascension Parish, LA.: The proposed East Bank planning area includes the service areas of the Hwy 42 and Hwy 73 LDOTD construction projects. The development of potential alternatives had to include a collection and transport system that featured utilization and consolidation of Parish sewerage system assets installed as part of these two LDOTD projects, as well as provide wastewater treatment for flows from this consolidated network. The proposed system would link these assets via a new mainline collection system, transporting flows to a regional wastewater treatment facility (10 MGD) for treatment and discharge into the Mississippi River. This proposed system begins the formation of a Parish-wide municipal sewerage system. HEI Project No.

Reserve Wastewater Treatment Plant (St. John the Baptist Parish Wastewater Retention Pond Conversion to Wastewater Oxidation Treatment Pond"), St. John the Baptist Parish, LA.: HEI was Sub-Consultant to EES (Oscar Boudreaux, Jr., P.E.) for the conversion of the Reserve Wastewater retention pond to a 3.0 MGD Aerated Lagoon. HEI designed the following portions of the Lagoon: Effluent Pump Station and Force Main, Pipeline Levee Crossing, and all Structural components including Lagoon foundation, Headworks, Pipe Support, Chlorine Building foundation and Effluent Pump Station piping. Coordinated all Geotechnical aspects of the project. HEI also provided all permitting services for DEQ and LDHH approvals. Civil, Mechanical, and Structural engineering design for the expansion of the 3.0 MGD wastewater treatment plant and oxidation pond conversion to an Aerated Lagoon. HEI Project No. 11-023-06

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PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Oscar J. Boudreaux, Jr., P.E.
Environmental Engineer

LEAD DESIGNER OF THE FOLLOWING TREATMENT FACILITIES *

- City of Ville Platte, Louisiana – Wastewater Treatment Plant
- City of Pineville, Louisiana – Wastewater Treatment Plant
- City of Winnfield, Louisiana – Wastewater Treatment Plant
- Town of Madisonville, Louisiana – Wastewater Treatment Plant
- Town of Homer, Louisiana – Wastewater Treatment Plant
- Town of Pearl River, Louisiana – Wastewater Treatment Plant
- Town of Simmsport, Louisiana – Wastewater Treatment Plant
- Village of Natchez, Louisiana – Wastewater Treatment Plant
- Town of Addis, Louisiana – Wastewater Treatment Plant
- Galliano, Louisiana – Wastewater Treatment Plant
- City of Elsa, Texas – Wastewater Treatment Plant
- Clinton, Louisiana – Sewer Treatment Plant
- City of San Juan, Texas – Wastewater Treatment Plant
- City of Winnfield, Louisiana – Wastewater Treatment Plant Improvements
- City of Jeanerette, Louisiana – Wastewater Treatment Plant
- Town of Addis, Louisiana – Wastewater Treatment Plant
- City of Natchitoches, Louisiana – Wastewater Treatment Plant
- Town of Lutchet, Louisiana – Wastewater Treatment Plant Upgrades
- St John the Baptist Parish, Reserve Wastewater Treatment Plant
- City of Morgan City, Louisiana – Wastewater Treatment Plant
- Diamondhead Water & Sewer Dist., Diamondhead, MS – Wastewater Treatment Plant
- Town of Lutchet, Louisiana – Wastewater Treatment Plant
- City of Donaldsonville, Louisiana – Wastewater Treatment Plant
- Town of Port Barre, Louisiana – Wastewater Treatment Plant
- Sewer District No. 4, St. Tammany, Louisiana – Wastewater Treatment Plant
- City of Opelousas, Louisiana – Water Treatment Plant
- City of Churchpoint, Louisiana – Water Treatment Plant
- Town of Amite City, Louisiana – Wastewater Treatment Plant
- Town of Gramercy, Louisiana – Wastewater Treatment Plant
- St. John the Baptist Parish, Louisiana – Wastewater Treatment Plant (Sludge)
- PepsiAmericas, Reserve, Louisiana – Wastewater Treatment Plant
- Sewer District No. 6, St. Tammany, Louisiana – Wastewater Treatment Plant
- Town of Many, Louisiana – Water Treatment Plant

- Cenex Harvest Grain Elevator, Belle Chasse, Louisiana – Wastewater Treatment Plant
- Peavey Grain Elevator, Gramercy, Louisiana – Stormwater Treatment Plant
- Keegan Bayou, Biloxi, MS – Wastewater Treatment Plant (Sludge)
- Violet, St. Bernard Parish, Louisiana – Wastewater Treatment Plant (Sludge)
- Greenleaves Utility Company, Mandeville, Louisiana – Wastewater Treatment Plant
- Colonial Sugars, Gramercy, Louisiana – Wastewater Treatment Plant
- Abita Beer, Mandeville, Louisiana – Wastewater Treatment Plant
- Alliance Compressor Mfr., Natchitoches, Louisiana – Pre-Treatment Wastewater Plan

CONSULTED WITH OR SERVED AS TECHNICAL ADVISOR *

- City of Hammond, Louisiana – Wastewater Treatment Plant
- Town of Jena, Louisiana – Wastewater Treatment Plant
- Indian River Development, Florida – Wastewater Treatment Plant
- Town of Berthoud, Colorado – Wastewater Treatment Plant
- Town of Eunice, Louisiana – Wastewater Treatment Plant
- City of Jackson, MS – Wastewater Treatment Plant
- City of Trenton, Georgia – Wastewater Treatment Plant
- Waveland, Mississippi – Wastewater Treatment Plant
- City of Sulphur, Louisiana – Wastewater Treatment Plant
- Whisperwood Subdivision, Slidell, Louisiana – Wastewater Treatment Plant
- City of Morgan City, Louisiana – Water Treatment Plant
- City of Mandeville, Louisiana – Wastewater Treatment Plant
- Port of South Louisiana, LaPlace, Louisiana – Wastewater Treatment Plant
- Town of Abbeville, Louisiana – Wastewater Treatment Plant
- Beau Chene Subdivision, Mandeville, Louisiana – Wastewater Treatment Plant
- Monsanto, Luling, Louisiana – Wastewater Treatment Plant

SITE TOURS FOR EVALUATION *

Over 250 in approximately 20 states

*** Performed by Mr. Boudreaux with EES or previous employment.**

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PROFESSIONAL IN CHARGE OF PROJECT:**Name & Title:**

Larry E. Shriver
Treatment Process Specialist

Project Assignment:

Water Treatment Specialist

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

8 (2015)

Education: Degree(s)/Year/Specialization:

M.S. Civil/Sanitary Engineering; University of Nebraska
B.S. Biology, Minor Chemistry; Drake University

Active registration: Year first registered/discipline:

Year First Registered: N/A
Discipline: State: License No.:

Other experiences and qualifications relevant to the proposed Project:

Mr. Shriver has over fifty years of experience in Wastewater Treatment Ponds, Planning, Design, and Construction. He wrote his Master's Thesis on the City of Alexandria's Aerated Lagoon. During the last thirty-two years, Mr. Shriver has been involved with several projects.

His experience is as follows:

Ascension Parish East Bank Sewer Consolidation, Ascension Parish, LA: The proposed East Bank planning area includes the service areas of the Hwy 42 and Hwy 73 LDOTD construction projects. The development of potential alternatives had to include a collection and transport system that featured utilization and consolidation of Parish sewerage system assets installed as part of these two LDOTD projects, as well as provide wastewater treatment for flows from this consolidated network. The proposed system would link these assets via a new mainline collection system, transporting flows to a regional wastewater treatment facility (10 MGD) for treatment and discharge into the Mississippi River. This proposed system begins the formation of a Parish-wide municipal sewerage system. HEI Project No.

Specific experience for Aerated Lagoons

Alexandria, LA - Wrote my Master's Thesis on this plant.
Oakdale, LA - With effluent filtration

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:

Larry E. Shriver
Treatment Process Specialist

Mechanical Plants -

Ruston
Shepherd Oil - Ethanol plant
Baton Rouge
Myriant Corporation, Lake Providence

Tamaned Wastewater Treatment Plant (WWTP) Expansion, St. Tammany Parish, LA – Project involves expanding the existing wastewater treatment plant from 0.045 MGD to a 0.150 MGD, concrete shared walled mechanical plant with Tertiary Filter. HEI Project No. 12-092-10

Ascension Parish Wastewater Treatment Plant (WWTP), Regionalization Plan, Ascension Parish, LA – Preliminary Design and layout of a phased 15 MGD Aererated Lagoon near the Mississippi River.

Improvements to Wastewater Treatment Plan (WWTP) No. 2, City of Kenner, LA - Project involved the abandoning of the existing WWTP and constructing a 15 MGD transfer pump station to convey wastewater to the City of Kenner WWTP No. 3. Professional engineering services consisted of modeling, design, bidding and construction phase services. Design included a collection trough to collected and transfer the wastewater from 14 sewer force mains, a pile supported reinforced concrete wetwell, three vertical turbine pumps, 30” diameter piping and force main, generator, fuel tank controls, and site work.

Capacity Upgrade for Effluent Pump Station at Wastewater Treatment Plant No. 3, City of Kenner, Louisiana – Project involved the feasibility evaluation, design, bidding, and construction phase services. The evaluation/preliminary design required modeling and analysis to determine the most feasible way to upgrade the existing 30 MGD effluent pump station to a 40 MGD. The interim solution was designed and constructed and included additional parallel 36” discharge piping in restrictive areas to increase the capacity of the station by 1 MGD.

Natchitoches Louisiana – Membrane pilot study on the drinking water supply (surface water – Lake Sibley) for the City. The study included the evaluation of seven different membranes and their capability of removing disinfection byproduct precursors. The pilot study was a 10 – 20 GPM membrane pilot project on this water supply. The study included hollow fiber ultrafiltration by two different manufactures followed by spiral wound nanofiltration membranes by various manufacturers.

Marlin, Texas – Membrane pilot study on the drinking water supply (surface water – Marlin Lake) for the City. The study included pre-clarification by alum coagulation. The clarified water was then filtered by hollow fiber ultrafiltration. Two units were evaluated, one from Koch Membrane Systems and one from Hydranautics/Indeck. Bench scale spiral wound membranes were evaluated for possible future additional soluble organics removal.

Blanchard, Louisiana – Membrane pilot study on the drinking water supply (surface water – Caddo Lake) for the Town. The study included pre-clarification by alum coagulation. The clarified water was then filtered by hollow fiber ultrafiltration. Two units were evaluated, one from Koch Membrane Systems and one from Siemens. Bench scale spiral wound membranes were evaluated for possible future additional soluble organics removal.

DeSoto Parish Water Works #1 - Membrane pilot study on the drinking water supply (surface water – Toledo Bend Lake) for the Parish. The study included pre-clarification by alum coagulation. The clarified water was then filtered by hollow fiber ultrafiltration. Two units are being evaluated, one from Koch Membrane Systems and one from Siemens.

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:

Larry E. Shriver
Treatment Process Specialist

City of Baton Rouge DPW – Extended Services Contract; wastewater treatment plant operations consultant, acted as a technical advisor for process control at the three major wastewater treatment facilities for the City.

New Orleans Sewage and Water Board (SWB) - Managed Competition Project; collected technical information for the Financial Advisory Team on the water and wastewater treatment plants as well as the lift stations and pump stations for bid document preparation; acted as a tour guide and coordinator for the prospective proposers on this project.

New Orleans SWB – Lift Station 16 Project; assisted in determining final design flow for this lift station, conducted hydraulic analysis for this project including line sizing and routing, developed system head curves at various operating conditions, pump selection alternatives and wet well requirements for this 3000 GPM Lift Station.

New Orleans SWB - Vulnerability Assessment Project; provided technical information for the security personnel on the water collection, treatment, and distribution facilities for the city.

New Orleans SWB – Gravity Interconnects Project; selected potential locations for the interconnects between sewage service areas, prepared drawings of the potential locations for further review and evaluation, prepared cost estimates for all the proposed locations, preparing design of the final selected interconnect locations.

New Orleans SWB – London Avenue Canal Project; calculated flow data from the pump stations that pump into the canal, participated in the conceptual process selection for treatment – disinfection and trash collection, prepared routing maps of storm water from the drainage areas of the city that are pumped into this canal, assisted in the installation of a temporary-pilot floating baffle for trash collection information for the final report on this project.

Bionol Louisiana, LLC - Lake Providence, Louisiana – Air permit application and air permit acquisition for this proposed 108 million Gallons of Ethanol Per Year corn to ethanol plant.

Celunol, LLC – Jennings, Louisiana – Pilot study to determine the treatability of their wastewater. The wastewater is from lignocellulosic sugar to ethanol pilot and demonstration plant. The project included the use of membranes for wastewater treatment and possible reuse.

Myriant Corporation – Boston, MA – Designed and proposed a wastewater treatment system for the high strength industrial wastewater from their demonstration plant in Lake Providence, LA that will produce Succinic Acid by a fermentation process. Also obtained the air, water, stormwater and sludge handling and disposal LDEQ permits for this facility. After plant completion, served in a advisory capacity for water supply, wastewater treatment, and membrane separations processes within this demonstration plant.

TEC Professional Services Questionnaire

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:**

Rolland A. Mura, P.E., B.C.E.E.
Senior Project Manager

Project Assignment:

Environmental Engineer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

21 (2002)

Education: Degree(s)/Year/Specialization:

M.S., 1971, Environmental Engineering, Tulane University
B.S., 1970, Civil Engineering, Tulane University

Active registration: Year first registered/discipline:

Active Registration: Year First Registered: 1974
Discipline: Civil & Environmental State: Louisiana License No.: 14997
Also registered in Mississippi (08409) and Alabama (14594)

Other experiences and qualifications relevant to the proposed Project:

Mr. Mura's 45+ years of experience includes a variety of civil and environmental engineering projects, ranging from basic gravity sewers to complex environmental impact statements, Brownfield site investigations, asbestos and NORM inspections, environmental assessments, ASTM Phase I and Phase II assessments, and regulatory compliance for commercial, industrial, and oilfield properties and facilities. He has overseen most of HEI's internal quality control matters on planning projects.

S&WB Contract No. R-053-2012, Water Line Replacement Program (Audubon, Uptown and West Riverside) Neighborhoods, New Orleans, LA: The purpose of this Project is to replace water lines in three neighborhoods on the New Orleans East Bank as a result of the floodwater from Hurricane Katrina in August 2005. The eligible water lines for replacement are based upon a FEMA and Board developed pipe evaluation criteria. All waterline work performed was coordinated with the City of New Orleans Street restoration program, Submerged Roads Program, ongoing Sewerage & Water Board projects for water point repairs, sewer repair and replacement projects. (HEI Project No. 11-016-04)

Bedico-Faubourg Interconnect 12-inch Waterline, St. Tammany Parish, LA: Prepare Construction Plans and Specifications, Bidding and Construction Management Services for 5,000 LF of 12" Waterline Extension. This project will connect two different water systems. (HEI Project No. 12-126-02)

10-inch Waterline Extension along Gause Boulevard, Slidell, LA: Prepare Construction Plans and Specifications, Bidding, and Construction Management Services for approximately 2,000 LF of Waterline Extension along Gause Boulevard. (HEI Project No. 12-090-12)

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Rolland A. Mura, P.E., B.C.E.E.
Senior Project Manager

Faubourg Coquille Water System – Water Quality Evaluation, St. Tammany, LA: HEI is providing engineering services to conduct an analysis of Tammany Utilities' Faubourg Coquille water system. Tammany Utilities has five wells on the Faubourg Coquille water system that include the Diversified Water Well, Faubourg Water Well, Timber Branch Water Well, Black River Water Well and the Christwood Water Well. The Faubourg Coquille water system currently serves approximately 4,300 customers. HEI is sampling and testing each well site to analyze for inorganics (cations and anions), silicon, TOC, silt density index (SDI) and soft metals. The data analysis will include a water chemistry balance. (HEI Project # 12-126-01-10)

Water Utility System Due Diligence Review and Evaluation (People's Water System), Ascension Parish, LA: Professional engineering services to include due diligence review and evaluation of infrastructure and related items associated with the possible purchase of a private water utility system in Ascension Parish. The purpose of this report is to present the results of an engineering review and evaluation of the potable water system, plant, and facilities owned and operated by the Peoples Water Service of Donaldsonville, Louisiana (PWS) serving the City of Donaldsonville and adjacent, limited portions of the unincorporated west bank Ascension Parish, Louisiana. The review and evaluation of the PWS facilities was made on behalf of the Parish of Ascension for the purpose of establishing an equitable basis for the possible purchase of the facilities. (HEI Project #12-031-08)

Utilities General Engineering and Technical Support Services – Task Order No. 1 – SCADA (UTL-17-002) Ascension, LA: HEI is providing services for the SCADA system upgrades for PUA and ACUD #1 System Sites, including the Palo Alto Water Tower, the GST, RW Intake, and EST. Services include Design, Bidding, and Construction Administration. (HEI Project No. 12-031-12)

Project No. D6800, Sewer Infiltration/Inflow Management Services, Jefferson Parish, LA: HEI is the Prime Consultant for Jefferson Parish, LA on this US EPA funded project. The project tasks conducted by HEI includes field survey of sewer manholes and pump stations utilizing GPS equipment (GPS System 500) and SKI-Pro software (both from Leica Geosystems), data entry into database and management of database (MS Access) to create and maintain Jefferson Parish's intricate wastewater collection system network in ArcGIS software, mapping of the system's features, followed by hydraulic modeling (InfoWorks) to identify problem areas under various storm conditions graphically within a GIS mapping environment, and recommend capacity and rehabilitation improvements to minimize rainfall derived infiltration and inflow (I&I) and related sanitary sewer overflows (SSOs). Detailed field investigation of nearly 5,000 manholes and 225 plus pump stations were conducted. Many rehabilitation projects have been identified costing upwards of \$500 million, along with identifying many areas that will require sewer system evaluation surveys (SSES) to further pinpoint problem locations and causes. (HEI Project No. 11-014-49)

Design of SCIP Project D2131 - Rehabilitate Existing Trickling Filters at Marrero Wastewater Treatment Plant, Jefferson Parish, LA: Project 1: remove, clean and repair/replace existing trickling filter media, remove, remove and replace all influent and effluent sluice gates (new gates to have electric actuators), clean repair/replace existing geodetic dome covers over both trickling filter units, inspect, repair and coat existing concrete surface, change existing vents, piping and media support inside filters, remove existing rotary distribution systems and

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Rolland A. Mura, P.E., B.C.E.E.
Senior Project Manager

replace with new stainless steel rotary distribution systems, investigate if the existing electrical items in the trickling filter control room is above 100 Year BFE and all related incidental work. **Project 2:** Remove and replace vertical turbine recirculation pumps, motors and valves, blast, and paint recirculation piping, redo all electrical control panels, motor control centers and other electrical items in the trickling filter electrical room, new electrical equipment building (pile supported, flat roof, window AC) constructed to conform to 100 years BFE requirement, mob/demo, and all related incidental work. HEI Project #11-014-85

SCIP Project D3123, Rehabilitate Existing Trickling Filters at Harvey Wastewater Treatment Plant, Jefferson Parish, LA: Project Engineer for: Rehabilitate existing Trickling Filters at the Harvey Wastewater Treatment Plant - remove, clean and repair/replace existing trickling filter media (stacked 'crate' type), remove existing rotary distribution systems and replace with new stainless steel rotary distribution systems, inspect, repair and replace existing water supply (hydrant, water line), change existing vents with new SS or Aluminum vents, piping and media support inside filters, remove exist hand rails, and installation of new LED lighting. HEI Project No. 11-014-93

Wastewater Treatment Plant No. 3 and Effluent Pump Station Upgrades and Expansion Kenner, LA: provided program and project management for extensive upgrades to the City of Kenner's Wastewater Treatment Plant (WWTP) No. 3. HEI was responsible for preparing a compliance plan, 201 Facility Plan, environmental information document (EID), and sludge management plan necessary for the city to maintain its wastewater collection and treatment system in compliance with U.S. Environmental Protection Agency (EPA) and Louisiana Department of Environmental Quality (LDEQ) requirements. HEI Project No. 11-011-65-30

Harahan Pump to the River, DPW Project No. 2001-046F-DR(SELA), Jefferson Parish, LA: This is a unique project in terms of complexity, administration, design, and rights of way to relieve chronic flooding in southeastern portion of east bank of Jefferson Parish via Southeast Louisiana Urban Flood Control Project (SELA), of the COE: A 700 ft long Suction canal; a 1,200 cfs pumping station; Three 9,000 ft long 84 inch diameter discharge piping to the Mississippi River levee, Reinforced concrete levee crossing of discharge pipes; Reinforced concrete discharge basin in Mississippi River; coordination with local community, regulatory agencies and DOTD regarding a very old oak tree (the Old Dickory); and relocation of several high tension electrical transmission towers. Project involved Detailed Design, construction documents (Plans and Specifications), cost estimate, engineering during construction, construction management/QA, and resident inspection for construction cost of \$200 Million. (HEI Project No. 11-012-09)

Subsurface Improvements to Sena Drive (Phase I & II), Project No. 2009-040-DR, Jefferson Parish, LA: Design and construction administration for subsurface drainage improvements between Nero Street and West Esplanade Avenue consisting of gravity line installations watermain replacement, sanitary sewer replacement and the replacement of street, drive approaches and miscellaneous sidewalks. Extreme care had to be given to the existing live oak trees that lined both sides of the street. A professional arborist provided design assistance to the engineer. (HEI Project No. 13-014-78)

TEC Professional Services Questionnaire

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:**

Sundararaja C. Rao, P.E.
Senior Project Engineer

Project Assignment:

Hydraulics Engineer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

16 (2007)

Education: Degree(s)/Year/Specialization:

MS, 1972, Sanitary & Water Resources Eng., Brigham Young University
MT, 1967, Hydraulic Engineering, I.I.T., Bombay, India
BS, 1965, Civil Engineering, University of Mysore, India

Active registration: Year first registered/discipline:

Year First Registered: 1978

Discipline: Civil/Environmental State: Louisiana License No.: 17005

Other experiences and qualifications relevant to the proposed Project:

Mr. Rao has over four decades of civil/hydraulic/sewer experience related to transportation and municipal systems, with a strong emphasis on the design and administration of roadway related projects. He has served in many capacities including design engineer, chief engineer of local civil consulting firms and has also served as project manager of several roadway and LADOTD off-system bridge replacement projects. Mr. Rao is currently serving as HEI's Roadway Design Engineer.

Ascension Parish East Bank Sewer Consolidation, Ascension Parish, LA: The proposed East Bank planning area includes the service areas of the Hwy 42 and Hwy 73 LDOTD construction projects. The development of potential alternatives had to include a collection and transport system that featured utilization and consolidation of Parish sewerage system assets installed as part of these two LDOTD projects, as well as provide wastewater treatment for flows from this consolidated network. The proposed system would link these assets via a new mainline collection system, transporting flows to a regional wastewater treatment facility (10 MGD) for treatment and discharge into the Mississippi River. This proposed system begins the formation of a Parish-wide municipal sewerage system. HEI Project No.

Sanitary Sewer System Upgrades (Staring Lane - Overflow Pump Station 58A) Service Area SGC-C-PS58A (City/Parish DPW Project No.09-PS-UF-0001), Baton Rouge, LA.: Mr. Rao served as Design Engineer for the civil site layout for the 88 MGD overflow pump station (58A) that flows directly to the South Wastewater Treatment Plant. HEI was a Sub-consultant to GEC on this project and design is 100% complete. HEI Project #12-093-08

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Sundararaja C. Rao, P.E.
Senior Project Engineer

City/Parish DPW Project No. 09-PS-MS-0034, Sanitary Sewer System Upgrades Booster Pump Station 514 Improvements, Baton Rouge, LA.: Mr. Rao served as Design Engineer for the civil site layout for the 77 MGD overflow pump station (514), HEI was a Sub-consultant to GEC on this project and design is 100% complete.
HEI Project #12-093-10

Sanitary Sewer System, Town of Melville, LA.: Project manager of this \$1.8 million dollar EPA and Farmers Home Administration funded wastewater collection, pumping and treatment facilities project for the Town of Melville, in St. Landry Parish. Key responsibilities included overall project development from conceptual stage to start-up and operation. Prepared necessary engineering and cost data for funding and bond issues, construction overseeing, process contractor's payment requests, change orders, coordination between funding agencies and the Town.

U. S. Army Corps of Engineers, New Orleans District - W85 - A & B Levee Enlargement, Atchafalaya Basin Levees: Civil Engineer on this 4.5-mile levee enlargement project. Responsibilities on this project included vertical and horizontal alignment design, cross sections, earthwork computations and borrow study report.

Sanitary Sewer System, City of Baton Rouge, LA.: Project engineer for this S-5 area sewerage improvements project involving new pump stations, rehabilitation of existing pump stations, 30 inch diameter Price Brothers concrete cylindrical pipe force main, force main layout schedule, pipe strength and load calculations, construction overseeing, process contractor's payment requests, change orders, coordination, etc.

Sanitary Sewer System, Town of Estherwood, LA.: Project manager of this \$700,000 dollar EPA and Farmers Home Administration funded wastewater collection, pumping and treatment facilities project for the Town of Estherwood located in Acadia Parish. Key responsibilities included overall project development from conceptual stage to start-up and operation. Prepared necessary engineering and cost data for funding and bond issues, construction overseeing, process contractor's payment requests, change orders, coordination between funding agencies and the Town.

Sanitary Sewer System, Town of Morse, LA.: Project manager of this \$ 600,000 dollar EPA and Farmers Home Administration funded wastewater collection, pumping and treatment facilities project for the Town of Morse located in Acadia Parish. Key responsibilities included overall project development from conceptual stage to start-up and operation. Prepared necessary engineering and cost data for funding and bond issues, construction overseeing, process contractor's payment requests, change orders, coordination between funding agencies and the Town.

Sanitary Sewer System, Town of Washington, LA.: Project manager of this \$1.2 million dollar EPA and Farmers Home Administration funded wastewater collection, pumping and treatment facilities project for the Town of Washington, in St. Landry Parish. Key responsibilities included overall project development from conceptual stage to start-up and operation. Prepared engineering and cost data for funding and bond issues, construction overseeing, process contractor's payment requests, change orders, coordination between funding agencies and the Town.

Sanitary Sewer System, Village of Sicily Island, LA.: Project manager of this \$600,000 dollar EPA and Farmers Home Administration funded wastewater collection, pumping and treatment facilities project for the Village of Sicily Island located in Catahoula Parish. Key responsibilities included overall project development from conceptual stage to start-up and operation. Prepared necessary engineering and cost data for funding and bond issues, construction overseeing, process contractor's payment requests, change orders, coordination between funding agencies and the Town.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Sundararaja C. Rao, P.E.
Senior Project Engineer

Sanitary Sewer System, Town of Walker, LA.: Project manager of this \$2.5 million dollar EPA and Farmers Home Administration funded wastewater collection, pumping and treatment facilities project for the Town of Walker located in Livingston Parish. Key responsibilities included overall project development from conceptual stage to start-up and operation. Prepare necessary engineering and cost data for funding and bond issues, construction overseeing, process contractor's payment requests, change orders, coordination between funding agencies and the Town.

Sanitary Sewer System, Village of Hall Summit, LA.: Project manager of this \$500,000 dollar EPA and Farmers Home Administration funded wastewater collection, pumping and treatment facilities project for the Village of Hall Summit located in Red River Parish. Key responsibilities included overall project development from conceptual stage to start-up and operation. Prepare necessary engineering and cost data for funding and bond issues, construction overseeing, process contractor's payment requests, change orders, coordination between funding agencies and the Town.

Oxidation Pond Rehabilitation, City of Denham Springs, LA.: Project manager of this \$2.5 million dollar EPA and Farmers Home Administration funded project involving rehabilitation of existing 100-acre single cell oxidation pond. The project consisted of dividing the existing pond into a three cell system by constructing dividing levees, construction of a 16-acre artificial marsh filter, installation of UV system for disinfection and flow monitoring system, construct and equip an on-site wastewater testing laboratory. Key responsibilities included overall project development from conceptual stage to start-up and operation. Prepare necessary engineering and cost data for funding and bond issues, construction overseeing, process contractor's payment requests, change orders, coordination between funding agencies and the City.

Sewer System Rehabilitation and Improvements, City of Denham Springs, LA.: Project manager of several sewer system rehabilitation and improvement projects for the City of Denham Springs involving, rehabilitation of collection lines using In-Situform method, rehabilitation of manholes, rehabilitation of existing pump stations, new collection lines, pump stations and force mains, etc. Key responsibilities included preparation of plans and specifications, construction bidding, construction overseeing, processing contractor's payment requests, change orders, coordination between funding agencies and the City.

Professional Highlights:

- Flood Control studies with HEC-1, HEC-2, HEC-RAS and WSPRO hydraulic computer modeling, bridge hydraulics and scour analysis
- Landfill leachate wastewater pumping stations and dual containment force mains
- NPDES, LDEQ and Corps of Engineers permit applications
- Land development, grading and drainage plans, and utilities
- Street Improvement projects for City of New Orleans, Orleans Parish Levee Board
- Runway and taxiway repairs, new access road and utilities for New Orleans International Airport
- LaDOTD Roadway Projects - Project Manager on various urban and rural roadway projects
- Taught undergraduate courses in Civil Engineering –University of Mysore, India (1967-1970), Southern University, Baton Rouge, LA. (part-time Sept. 78-June 79)

TEC Professional Services Questionnaire

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT**Name & Title:**

Raul H. Regis, P.E.
Project Engineer

Project Assignment:

QA/QC Engineer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

6 (2017)

Education: Degree(s)/Year/Specialization:

B.S., 1990, Civil Engineering, Florida State University

Active registration: Year first registered/discipline:

Active Registration: Year First Registered: 2008
Discipline: Civil State: Louisiana License No.: 34006
Also registered in Mississippi (18695); Arkansas (15078); Florida (85074)

Other experiences and qualifications relevant to the proposed Project:

Mr. Regis has over 26 years of experience in project management, design of complex highways, multi-level interchanges and urban streets for major clients such as MDOT, LDOTD, NASA, USACE, FDOT, the Florida's Turnpike Enterprise, the Miami-Dade Expressway Authority (MDX), and the Puerto Rico Highway Authority. Additional clients include The City of New Orleans, Ascension Parish, St. John the Baptist Parish, St. Tammany Parish, Louisiana and in Florida: Broward County, Palm Beach County, Miami-Dade County, the City of Miami, and the City of Pembroke Pines. Further design experience includes roundabout design, signal design and advanced traffic control.

RELEVANT PROJECT EXPERIENCE FROM PREVIOUS FIRM:

Belle Chasse Tunnel and Bridge Replacement Stage 1- Environmental Assessment, Plaquemines Parish, LA- Project Manager responsible for the coordination of the NEPA process, in particular the Bridge and Tunnel Historic Preservation alternatives. The Belle Chasse Tunnel and the Judge Perez Bridge are critical transportation links for residents, businesses and industries in the Westbank, Plaquemines Parish. Concerns have been identified with the functionality and reliability of these existing structures that form the LA 23 crossing of the Algiers Canal/Algiers Alternate Route of the Gulf Intracoastal Waterway (GIWW) and their ability to meet the needs of both the vehicular and maritime transportation corridors and the surrounding community. Replacing the existing structures will make both daily commutes and hurricane evacuations easier, faster, and more reliable. It will help encourage economic growth in the area by providing the area's businesses and industries with a more efficient transportation system. A new bridge is also expected to be far less expensive to operate and maintain than the existing Belle Chasse Tunnel

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

Raul H. Regis, P.E.
Project Engineer

and Judge Perez Bridge. Project was on an expedited schedule and in metric units, making this a challenging project. (LADOTD, State Project No. H.004791)

Baton Rouge Loop Tier 1 Draft Environmental Impact Statement (FEIS) Ascension, East Baton Rouge, Iberville, Livingston, and West Baton Rouge Parishes, LA - Project Manager responsible for the coordination of the NEPA process including the completion of the Record of Decision (ROD), and post ROD activities such as the traffic and revenue analysis, and possible P3 opportunities. The Project would consist of a 90- to 105-mile long circumferential, controlled access toll roadway around greater Baton Rouge, Louisiana in Ascension, East Baton Rouge, Iberville, Livingston, and West Baton Rouge Parishes. The proposed toll highway would connect Interstate 12 east of Baton Rouge and east of Walker to Interstate 10 west of Baton Rouge; I-10 west of Baton Rouge to I-10 south of Baton Rouge; and I- 10 south of Baton Rouge to I-12 east of Walker. The Project is being developed by the Capital Area Expressway Authority (CAEA), the Louisiana Department of Transportation and Development (LA DOTD), and the FHWA as lead federal agency. Cooperating agencies include the US Army Corps of Engineers (USACE), New Orleans District, and the US Coast Guard (USCG), 8th Coast Guard District. Approximate contract value \$12M (Finalizing NEPA Process).

Calcasieu River Bridge EIS, Lake Charles, LA - Project Manager responsible for the coordination of the NEPA process and roadway related tasks such as alternatives development, geometric analysis, and the Interchange Justification Report. The primary purpose of this project is to increase capacity along I-10 from the east and west interchanges with I-210 in the Lake Charles region. The study corridor is approximately 9 miles long and includes the high-level Calcasieu River Bridge. It also includes improvements and widening to the interstate approach roadways on either side of the urban bridge, including several complex interchanges. Approximate contract value \$6M. (LADOTD, State Project No. H.006783)

I-110 Bridge Rehabilitation, Biloxi, MS - Project Manager responsible for the development of complex traffic control plans for a heavily traveled bridge requiring rehabilitation. Task included maintaining traffic on the bridge during rehabilitation work. Approximate contract value \$70,000. (MDOT).

I-12 to Bush, St. Tammany Parish, LA- Project Manager for this project providing approximately 5.5 miles of a 4 lane divided highway from the proposed LA 3241 to the LA 40/LA 41 intersection in Bush, LA. As a sub the corresponding scope for this project was the preliminary design of the bridge over Talisheek Creek, approximately 500' in length. Additional tasks included the development of the bridge scour report at Talisheek Creek, and the QA/QC of the roadway plans for the project. Design fees for this project are approximately \$135k. (LADOTD, State Project No. H.004113)

Improvements to US 190 from LA 22 to Lonesome Road, St. Tammany Parish, LA - Project Manager responsible for the re-design of approximately 1.5 miles of US 190. Activities included close coordination with LDOTD, revisions to drainage plans, redesign of traffic signals, revision to existing superelevation, and traffic control plans. Project was on an expedited schedule and in metric units, making this a challenging project. Approximate contract value \$150,000. (LADOTD, State Project No. H.000498)

I-10 Widening from Siegen Lane to the I-10/I-12 Split, Post Design Services and Geotechnical Support, Baton Rouge, LA - Project Manager responsible for the coordination of the geotechnical activities for all bridge substructures, and post design services during construction. Other responsibilities included the re-design of the traffic

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

Raul H. Regis, P.E.
Project Engineer

control plans for the I-10 mainline and ramps, approximately 4.6 miles. Additionally, this project required close coordination with the LDOTD Project Engineer and his staff, and the contractor's construction manager. Approximate contract value \$350,000. (LADOTD, State Project No. 450-10-0108).

Intersection Improvements US 190 at Northpark, St. Tammany Parish, LA - Project Manager responsible for final layout of intersection improvements on two streets within the Northpark Business Park which connect to US Highway 190. Improvements include widening existing streets to add capacity for turn movements and improving traffic signals as needed to accommodate new movements. The design of an additional left turn lane from US 190 to Northpark, and a right turn lane from Northpark to US 190 was also included. Approximate contract value \$120,000. (LADOTD, State Project No. 700-30-0270)

LSU Nicholson Gateway, East Baton St. Parish, LA - Project Manager responsible for the supervision of the design of the access road to the new student housing project, and the sewer line connecting the new pump station south of Skip Bertman to the proposed student housing. Also included in this project as a separate task, is the redesign of Nicholson Drive from Burbank to Chimes Street, approximately 1.0 mile. Approximate contract value \$350,000.

SR 475 Extension from US 80 to Existing SR 475 at Old Brandon Road, Pearl, Rankin County, MS - Project Manager responsible for the reconfiguration of the MS 475 intersection with Old Brandon Road near Jackson International Airport. The improvements will provide a full diamond interchange which will relieve traffic congestion at the roundabout located at the entrance to the airport where MS 475 currently intersects. Improvements to MS 475 will also include the design of two 275' concrete bridges on-curve over Old Brandon Road. Approximate contract value \$705,000. (MDOT)

Final Construction Plans Mississippi Highway SR 607 Roadway Widening, Design and Engineering Services; Interstate 59 to Saturn Drive, Hancock and Pearl River Counties, MS - Project Manager responsible for the development of plans and specifications for the widening of SR 607 from 2 to 4-lanes within the Stennis Space Center. The project total length was approximately 4-miles. Project involved roadway and drainage design and the development of specifications. Approximate contract value \$1,355,000. (NASA/MDOT) (2008).

Infinity Access Road, Hancock County, MS - Project Manager responsible for roadway and drainage design of approximately 1-mile of a 2-lane road that will serve as the entrance to the NASA Infinity Site. This proposed roadway will be connected to the MDOT entrance to the existing rest area located adjacent to SR 607. Specifications and construction cost estimates were also prepared. Approximate contract value \$260,000. (MDOT/NASA) (2008-2009).

Crystal Hill Road Bike Path, Pulaski County, AR - Project Manager for the design of approximately 1.5 miles of bike lanes along the Crystal Hill Road corridor from Counts Massie Road east to Maumelle Boulevard. This project will introduce bike lanes in both directions along Crystal Hill Road which will tie into the existing network of bike trails along Maumelle Boulevard. Currently, Crystal Hill Road is a two-lane road with mainly residential traffic, but with some commercial traffic as it connects to Maumelle Boulevard in the east. The proposed typical section will contain two eleven-foot automobile lanes and two five-foot bike lanes in both directions, this configuration will be fitted within the existing road right of way. (Pulaski County Road and Bridge Department) (2013).

TEC Professional Services Questionnaire

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

Tony R. Tramel, P.E., P.T.O.E.
Traffic Engineer

Project Assignment:

Lead Traffic Engineer

Name of Firm with which associated:



Years' experience with this Firm:

9 (2014)

Education: Degree(s)/Year/Specialization:

B.S., 1972, Engineering, Interdisciplinary Engineering, Purdue University, West Lafayette, IN
Master of City Planning, 1974, City Planning, Georgia Institute of Technology, Atlanta, GA
Master of Engineering, 1974, Traffic Engineering/Transportation Planning, Georgia Institute of Technology, Atlanta, GA

Active registration: Year first registered/discipline:

Year First Registered: 1981
Discipline: Civil State: Louisiana License No. 19268
Also registered in Texas (60074) and Oklahoma (17946)

Other experiences and qualifications relevant to the proposed Project:

Mr. Tramel is an experienced transportation engineer/transportation planner with a variety of transportation related experience, including the administration of traffic safety and operations, transportation planning, land development review, traffic signal design and signal systems implementation, design and operation of parking facilities, supervision of street maintenance and municipal aviation activities. Traffic safety and operation experience included preparation of several municipal traffic studies to increase roadway capacity and safety, and more than 45 years of municipal traffic engineering and transportation planning experience. Transportation planning included the development of short- and long-range transportation plans for municipalities ranging in population from 90,000 to 260,000 persons. This work encompassed the use and calibration of transportation models to forecast future traffic conditions and the design of alternative transportation systems to accommodate future transportation demand.

- **USA, Professional Traffic Operations Engineer (PTOE), (121)**
- **Fellow Member of Institute of Transportation Engineers, (07060)**
- **Adjunct Instructor, University of Southwest Louisiana, 1999**

Mr. Tramel has been directly involved in traffic operational analysis, geometric and traffic signal design of more than 50 intersections. These intersections include locations in Lafayette, Louisiana, Vero Beach, Florida, and within the Dallas / Ft. Worth (DFW) Metroplex area it includes the cities of Grand Prairie, Arlington, Plano, Rockwall, Dallas, and Ft. Worth. Comprehensive traffic safety and traffic signal studies have been completed by Mr. Tramel for several cities during his more than 40 years as a transportation engineer in the private and public sectors of

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Name & Title:

Tony R. Tramel, P.E., P.T.O.E.
Traffic Engineer

employment.

Mr. Tramel has advocated the use of modern roundabouts in Lafayette. The first modern roundabout in Louisiana was implemented with assistance of the LaDOTD more than 10 plus years ago at the intersection of two LaDOTD routes using District Maintenance funds and designs promulgated by Mr. Tramel. More than 13 modern roundabouts are either built or are under design in Lafayette Parish. Modern roundabouts are the only traffic control device that enhances / improves efficiency, convenience, and traffic safety.

For the past 15 years, Mr. Tramel has been the Metropolitan Planning Organization's lead staff engineer working with LaDOTD in completing the Environmental Impact Document for the I-49 Connector in Lafayette. This 6-mile 6 lane elevated new Interstate 49 section has a projected cost of \$0.75 to \$1.0 Billion. A comprehensive engagement of efforts was undertaken by Mr. Tramel and his staff during this period including numerous public meetings and hearings, design charettes, traffic operation analysis of surface street interchanges with ramp connections, etc.

More than 25 intersections and more than 15 miles of roadways have been improved by the use of better pavement management. This included "restriping the existing pavement sections, typically reducing the lane width in order to provide additional turning lanes at signalized intersections. Several arterial streets were converted from 4 lane undivided street to 5 lane cross sections where the center lane was designated a two way left turn lane (TWLTL) in an effort to increase capacity and enhance traffic safety.

RELATED PROJECTS:

Stage 0 Feasibility Study Proposed Left Turn Lane on LA 30 at South Purpera Avenue/South Hodgeson Avenue, Ascension Parish, LA. Study of feasibility and potential traffic, environmental, and economic impacts of implementing a proposed left turn lane on LA 30 in comparison with existing conditions. The report follows all guidelines from LADOTD's *Stage 0 Manual of Standard Practice*. HEI Project No. 12-031-06

LADOTD H.011490, LA 30: Turn Lanes at S. Purpera & S. Hodgeson, City of Gonzales, Ascension Parish, LA. An Urban Systems project which involved roadway and traffic engineering, surveying, and geotechnical services for the widening and overlay required to add left turn lanes at an existing intersection. HEI Project No. 12-031-07

SPN H.003920, FAP H009320: Acadian Roundabout, Route LA 20 (Canal Boulevard) and Local Routes (Back St., Jackson St., Thompson Place) Ascension Parish, LA (2015-On Going) Design of a traditional shaped dual lane 5-legged roundabout at the intersection of LA 20 and Jackson St. in Thibodeaux, LA. The proposed roundabout shall branch from LA 20 into Canal Boulevard and Jackson St., also connecting Back St. and Thompson Place at the east and west approaches. Design conforms to EDSM V1.11.6., and current 2017 roadway design guidelines. HEI Project No. 12-092-09

LaDOTD S.P.N. H.0011490, LA 30 at Purpera Intersection Improvements, Ascension Parish, LA.:

Mr. Tramel was the lead design engineer responsible for the preparation of plans and specifications for the subject project. The project improvements include preliminary and final designs for the widening of an urban arterial (UA-3) 2-lane corridor to accommodate proposed left turns at the intersection of LA 30 and S. Purpera Ave. The improvements feature intersection design, signal design, and ancillary roadway and drainage designs. Mrs. Connelly provides sub-consultant and client coordination, project management, QA/QC coordination, value-engineering recommendations, utility conflict review and coordination, geometric roadway and intersection design, drainage

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

Tony R. Tramel, P.E., P.T.O.E.
Traffic Engineer

design, specifications review and preparation, construction cost estimate and quantity take-offs preparation. Additional technical responsibilities include roadway modeling via Bentley InRoads and MicroStation and providing LADOTD Submittals and Coordination via the Bentley ProjectWise interface.

Intersection Improvements (Veterans Blvd. – Bonnabel Blvd.) JP Parish Project 2017-028-RBP, Jefferson Parish, LA: Mr. Tramel is the signal design engineer for this capacity improvements project at the intersection of Vets/Bonnabel. Additional left turn lanes are included in both directions along Veterans, new U-turns along Bonnabel, new signal to include pedestrians and future bike paths. (HEI Project No. 11-014-95)

Computer-Controlled Traffic Signal System, City of Lafayette: City Transportation Engineer: Mr. Tramel administered the design and implementation of the City's first centralized computer-controlled traffic signal system in 1985 using CATV for communication. This system has been upgraded several times, and today includes more than 200 traffic signals and uses fiber communications and has more than 75 pan and tilt video cameras in use. This video stream is used by the Signal Systems Engineer to evaluate signal timing changes and monitor traffic conditions. Additionally, this video is streamed to 911 public safety agencies, and with the use of an iPhone app, (Lafayette Traffic), allows anyone to view the cameras and see the reported locations of current traffic crashes.

Intersection of US 167 Johnston Street at Camelia Boulevard / Guilbeau Road, City of Lafayette: Mr. Tramel was the principle geometric and traffic operations design engineer associated with Lafayette's first "displaced left turn intersection design" or referred locally as a "Reduce Phase Intersection (RPI) "design at the intersection of US 167 Johnston Street at Camelia Boulevard / Guilbeau Road. This design was accomplished within the existing available rights of way.

Other Experience and Qualifications for Mr. Tramel:

- Lafayette Consolidated Government (LCG), Lafayette, LA, Director of Traffic and Transportation (1998 – 2013)
- DeShazo, Tang and Associates Consulting Engineers, Dallas, TX, Vice President/Principal (1993 – 1998)
- City of Arlington, TX, Assistant Director of Transportation/Planning (1990 – 1993)
- Kimley-Horn and Associates, Vero Beach, FL, Senior Engineer/Project (1988 – 1990)
- Parsons Brinckerhoff/De Leuw, Cather & Company, Dallas, TX, Chief Traffic Engineer (1987 – 1988)
- City of Grand Prairie, TX, Director of Transportation (1985 – 1987)
- City of Lafayette, Lafayette, LA, City Transportation (1977 – 1985)
- Hensley-Schmidt, Inc. (now dba Neel-Schaffer), Jackson, MS, Project Engineer/Manager (1974 – 1977)

TEC Professional Services Questionnaire

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT**Name & Title:**

David L. Atkins
Designer

Project Assignment:

Roadway Designer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

8 (2015)

Education: Degree(s)/Year/Specialization:

N/A

Active registration: Year first registered/discipline:

Active Registration: Year First Registered:

Discipline: State: License No.: N/A

Other experiences and qualifications relevant to the proposed Project:

Mr. Atkins has 45+ years of Design and Construction Administration experience for local, state and federal agencies in Mississippi and Louisiana. Mr. Atkins is a well-rounded designer with experience in roads, bridges, hydraulics, sewer treatment and collection, water treatment and distribution, permitting, large scales erosion control projects and miscellaneous Airport design.

HIS EXPERIENCE IS AS FOLLOWS:**Sewer and Water Experience**

Mr. Atkins has designed and constructed over 90 sewer collection and 75 water distribution projects. He was also responsible for upgrading the capacity of Natchez Water and Wastewater Treatment Plants and managed the O&M for both. *(Work performed under previous consulting firm).*

Germany Road Gravity Sewer Improvements, Ascension Parish, LA. HEI developed a preliminary engineering design and construction cost estimate for installation of sanitary sewer along Germany Road from Airline highway to LA Highway 44. HEI Project No. 12-031-15

UTL-17-002, Task Order No. HEI-19-003, LA HWY 42 – LA HWY 73 Roadway Corridor (Project Area P1-6), Ascension Parish, LA. HEI performed a preliminary engineering study to determine two potential sewer collection alignments / conceptual design including construction costs based upon finding of current sewer flows. HEI Project No. 12-031-12C

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

David L. Atkins
Designer

Ascension Parish East Bank North Regionalization Plan, Ascension Parish, LA. Preliminary design and modeling using InfoWorks ICM of over 40,000 customers. Preliminary design included modeling gravity and sewer forcemains, small and large pump stations, existing pump station rehabilitation, and routing analysis. HEI Project No. 12-031-16

UTL-18-0802, Hwy 42 Gravity Sewer Improvements (Cully Broussard Road to Harbor Lane), Ascension Parish, LA. Designed approximately 1,400 linear feet of gravity sewer (this included design of subsurface installation of approximately 100 linear feet of gravity sewer) along LA Hwy 42 from Cully Broussard Road to Lake Harbor Lane including two Hwy 42 crossings via Jack or Bore. This design work included all plan sheets and specifications necessary to bid out for construction. This work was required to connect existing and future services to the parish owned sanitary sewer line on the south side of LA Hwy 42. Additional Task Order was assigned (UTL-17-002 - Task Order No. HEI-19-002) Developed plans and specifications for an additional sewer tail line North of Hwy 42 {Galvez Seafood location) into the gravity main south of Hwy 42. Prepared DOTD permit applications for two (2) LA HWY 42 road crossings via Jack or Bore. HEI Project No.12-031-14

Drainage and Erosion Control Experience

Mr. Atkins has designed and constructed over 150 NRCS EWP projects. The largest being the Natchez Bluff Stabilization project funded by the USACE and NRCS, (\$30 million construction cost). Mr. Atkins managed and designed over 25 projects funded by the USACE 592 program. *(Work performed under previous consulting firm).*

Natchez Bluff Stabilization - The project required the design and construction of: 2 permanent soil nail walls with over 100,000 square feet of permanent shotcrete. More than 2,900 permanent soil nails. Over 2,500 feet of permanent soil nail wall, up to 62 feet high. Over 500 lineal feet of a permanent tieback soldier beam wall up to 48 feet high. Excavation, hauling and placement of over 100,000 cubic yards of dirt. *(Work performed under previous consulting firm).*

Road and Bridge Experience

Mr. Atkins has designed and constructed over 100 Mississippi State Aid Road and Bridge Projects in Adams and Wilkinson Counties. Mr. Atkins was involved in the widening of U.S. 61 and U.S. 84 (50 miles) and the relocation of Hwy 33 and 28 for MDOT. *(Work performed under previous consulting firm).*

Airport Experience

Mr. Atkins has designed all major aspects of the Natchez-Adams County Airport, including runways, T-hangers, drainage, etc. *(Work performed under previous consulting firm).*

TEC Professional Services Questionnaire

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT**Name & Title:**

Sushil K. Jain, P.E.
Structural Engineer

Project Assignment:

Structural Engineer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

12 (2010)

Education: Degree(s)/Year/Specialization:

M.S.C.E., 1966, Michigan State University, Michigan USA

B.S.C.E., 1960, Punjab University, India

B.A., 1956, Punjab University, India

Active registration: Year first registered/discipline:

Active Registration: Year First Registered: 1976

Discipline: Civil State: Louisiana License No.: 15712

Other experiences and qualifications relevant to the proposed Project:

Mr. Jain is a Registered Professional Engineer with a Master's Degree in Civil Engineering. He has 45+ years of experience in Structural Analysis and Design in both government and private industry. His background includes: Structural analysis and design of bridges, drainage structures, multi storied buildings and structures using current IBC codes, foundation for major industrial project, power plants, waste water treatment plants, waterfront structures, refinery and petrochemical plants etc. Engineering design of highways, roads, streets and general civil projects. Inspection and analysis of structural stability of buildings and structures.

SFL-C-003, 11-PS-MS-0026, City of Baton Rouge Sewer Program, (Multiple Pump Stations, Burbank Drive – Siegen Lane) Baton Rouge, LA: 6 Pump Station replacements combined capacity increase of 0.5 to 12.5 million gallons per day (MGD) (150 – 9,000 GPM). Project includes replacement of one in-line booster pump station with a submersible pump station. The larger of the 6 required a Site Assessment, wetland delineation, wetland permitting and mitigation for a new 1-acre site. HEI Project No. 12-093-11

Reserve Wastewater Treatment Plant (St. John the Baptist Parish Wastewater Retention Pond Conversion to Wastewater Oxidation Treatment Pond”), St. John the Baptist Parish, LA: HEI was Sub-Consultant to EES (Oscar Boudreaux, Jr., P.E.) for the conversion of the Reserve Wastewater oxidation pond to a 3.0 MGD Aerated Lagoon. HEI designed the following portions of the Lagoon: Effluent Pump Station and Force Main, Pipeline Levee Crossing, and all Structural components including Lagoon foundation, Headworks, Pipe Support, Chlorine Building foundation and Effluent Pump Station piping. Coordinated all Geotechnical aspects of the project. HEI also provided all permitting services for DEQ and LDHH approvals. HEI Project No. 11-023-06

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

Sushil K. Jain, P.E.
Structural Engineer

DPW Project No. 2001-046F-DR (SELA), Harahan Pump to the River, Jefferson Parish, LA: This is a unique project in terms of complexity, administration, design, and rights of way to relieve chronic flooding in southeastern portion of east bank of Jefferson Parish via Southeast Louisiana Urban Flood Control Project (SELA), of the COE: A 700' long Suction canal; a 1,200 cfs pumping station; Three 9,000' long 84" diameter discharge piping to the Mississippi River levee, Reinforced concrete levee crossing of discharge pipes; Reinforced concrete discharge basin in Mississippi River; coordination with local community, regulatory agencies and DOTD regarding a very old oak tree (the Old Dickory); and relocation of several high tension electrical transmission towers. Project involved Detailed Design, construction documents (Plans and Specifications), cost estimate, engineering during construction, and construction management/QA, for construction cost of \$106.8 Million. HEI Project No. 11-012-09

576-26-0028 (Phase V) JP Project No. 2010-003-DR, LADOTD – Ave D Drainage Improvements (Westbank Expressway to 6th St.), Jefferson Parish, LA: Design Engineer for the preparation of preliminary and final plans and specifications for drainage and roadway improvements (LADOTD Statewide Flood Control Program). Design includes upgrade of existing drainage structures (which range from 15" to 96" RCP), structural design and detail of large conflict boxes, roadway reconstruction and utility relocation. HEI Project No. 12-014-76

576-26-0028 H.003559 (Phase VI) JP Project No. 2012-006-DR, LADOTD – Ave D Drainage Improvements (Ave C, Ave A, Gaudet: Between 6th St. and 8th St.), Jefferson Parish, LA: Design Engineer for the preparation of preliminary and final plans and specifications for drainage and roadway improvements (LADOTD Statewide Flood Control Program). Design includes upgrade of existing drainage structures (which range from 15" to 72" RCP) structural design and detail of large conflict boxes, roadway reconstruction, utility relocations, and temporary traffic control. (HEI Project No. 12-014-76)

DPW Project No. 2009-039-DR, Sauve Road Drainage Improvements, Jefferson Parish, LA: Provide A/E services (design and construction administration) for subsurface drainage improvements to the Sauve Road area in River Ridge, LA on the east bank of Jefferson Parish. The work consisted of construction of a drainage pump station with two 9,000 gpm pumps, associated discharge piping, gravity drain installations, and street work and utility adjustments. The work included: Directionally drilled 2,500 LF of 30" DR11 and 36" DR11 HDPE lines with installation of accompanying required valves; Mississippi River levee crossings to a river outfall; Installation of standby generator w/transfer switch gear. HEI Project No. 13-014-77

PW 2011-040-DR, 17th St. Crossing at Airline Highway, (Monticello Canal at Airline Highway Drainage Improvements Council District 2), Jefferson Parish, LA: Preparation of an Engineering Alternative Report (EAR) for the construction of drainage improvements to a portion of the Monticello Canal extending from approximately the north-side of Airline Highway (US 61) to the south-side of the New Orleans Public Belt Railroad (Amtrak). This work is located on the boundary of Jefferson Parish and Orleans Parish, Louisiana. The project consists of drainage improvements to the Monticello Canal to include a 3 – 84" diameter culvert crossing at Airline Highway and KCS Railroad to accommodate Hoey's By-pass; and modified transition structures that combines flows from Hoey's By-pass and Monticello Canal. The professional services required of the ENGINEER include conceptual engineering and design, preliminary drawing preparation, surveying and mapping the project site, incorporating utility relocation into the design documentation, determining ROW and permitting requirements, performing the geotechnical investigations required to obtain necessary design parameters, preparing preliminary quantity and cost estimates all combined into the EAR. Finally, the ENGINEER shall prepare a cost sharing agreement with all affected entities. HEI Project No. 11-014-84

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

Sushil K. Jain, P.E.
Structural Engineer

Donaldsonville Park Pavilion, Ascension Parish, LA: Prepared Preliminary and Final Construction drawings for the installation of a new 16,000 sf Pavilion including restroom facilities, vehicular access, and parking lot. HEI Project No. 12-031-01

Other projects which Mr. Jain worked on and has experience within previous positions:

- Gonzales Motor Vehicle Building, Gonzales, LA.
- Donaldsonville DPW Maintenance Building, Donaldsonville, LA
- Social Service Building Renovation, Gonzales, LA
- Banks Elementary School Piping/Insulation Replacement, Baton Rouge, LA.
- Glen Oaks Middle School, Piping/Insulation Replacement, Baton Rouge, LA.
- Shenandoah Elementary School Piping/Insulation Replacement, Baton Rouge, LA
- Park Improvements, Lake Providence, LA
- Solid Waste Building Renovation Plaquemine Parish, LA
- Library building renovation, Grand Isle, LA
- Baker Junior High School Roof Replacement, Baker, LA
- Oxidation Pond Renovation, Rayville, LA
- African American Museum, Monroe, LA
- Structural design LA OCS building in Amite, LA
- Renovation of housing units, Alexandria, LA
- Master plan Update at Baton Rouge Airport, Baton Rouge, LA
- Sidewalk along Hwy 75, City of St. Gabriel, LA
- Recreation Center, Reserve, LA
- Annunciation Street Condo, New Orleans, LA

TEC Professional Services Questionnaire

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:**

Connor D. Guidry, E.I.
Project Engineer

Project Assignment:

Project Engineer

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

6 (2017)

Education: Degree(s)/Year/Specialization:

B.S., 2018, Civil Engineering, Louisiana Tech University, Ruston, LA

Active registration: Year first registered/discipline:

Active Registration: Year First Registered: 2018

Discipline: Engineer Intern State: Louisiana License No.: EI33801

Other experiences and qualifications relevant to the proposed Project:

Mr. Guidry first started with HEI as an engineering intern in 2016. He began full-time after graduating in 2018, and also gained his E.I. license that year. Mr. Guidry has experience in Roadway/Highway, Drainage, and Sewer projects, with many of the projects including safety widening and intersection improvements.

RR189, Project No. 2016-RR189, Capital Improvement Program, RR3 Village De L'Est Group C (FRC), PW7120355; K17-420, DPW FEMA PW No. 21032, City of New Orleans, LA: Engineering and construction management services for fall roadway reconstruction including drainage, water, and sewer replacements. Construction cost is approximately \$8,000,000. HEI Project No. 11-076-08

Ascension Parish East Bank Sewer Consolidation, Ascension Parish, LA: The proposed East Bank planning area includes the service areas of the Hwy 42 and Hwy 73 LDOTD construction projects. The development of potential alternatives had to include a collection and transport system that featured utilization and consolidation of Parish sewerage system assets installed as part of these two LDOTD projects, as well as provide wastewater treatment for flows from this consolidated network. The proposed system would link these assets via a new mainline collection system, transporting flows to a regional wastewater treatment facility (10 MGD) for treatment and discharge into the Mississippi River. This proposed system begins the formation of a Parish-wide municipal sewerage system.

DPW FEMA No. 21032, Contract No. 1266, MK19-786, Project No. 2019-RR141, RR141 Pontchartrain Park Group B (FRCP), New Orleans, LA: Provided professional engineering design services for FEMA-eligible street repairs and utility installations on assigned streets within the Pontchartrain Park neighborhood. Improvements include the following design features: roadway pavement and base construction complete with curbs, sidewalks, drives, and ADA handicapped ramps; subsurface drainage, water, and sanitary sewer installation. Final grades designed to be compatible with adjacent properties and existing pavements and provide for a positive flow of water

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Connor D. Guidry, E.I.
Project Engineer

towards catch basins. Project technical design work included horizontal and vertical design and modeling of fully reconstructed residential streets, hydraulic study for design and modeling of drainage system (pipe sizes ranging from 15" to 54", circular and arch), and design of water and sanitary sewer installations. Coordinated with subconsultant on surveying, preliminary design, final design, bidding, construction administration, and resident inspection. Provided design QA/QC at preliminary and final design milestones. Project work located along Mithra St., Piety Dr., Desire Dr., and Odin St. HEI Project No. 11-076-09B

DPW FEMA No. 21032, Contract No. 1268, MK19-787, Project No. 2019-RR142, RR142 Pontchartrain Park Group C (FRC), New Orleans, LA: Provided professional engineering design services for FEMA-eligible street repairs and utility installations on assigned streets within the Pontchartrain Park neighborhood. Improvements include the following design features: roadway pavement and base construction complete with curbs, sidewalks, drives, and ADA handicapped ramps; subsurface drainage, water, and sanitary sewer installation. Final grades are designed to be compatible with adjacent properties and existing pavements and provide for a positive flow of water towards catch basins. Project technical design work included horizontal and vertical design and modeling of fully reconstructed residential streets, hydraulic study for design and modeling of drainage system (pipe sizes ranging from 15" to 54", circular and arch), and design of water and sanitary sewer installations. Full roadway reconstruction and installation of 12" – 36" (EQ.) storm drains, 8" water mains, and 8" sanitary sewer gravity mains. Project work located along Mexico St., Pauline Dr., Columbia St., De Bore Dr., Frankfort St., and New York Circle. HEI Project No. 11-076-09C

DPW FEMA No. 21032, Contract No. 1271, MK19-788, Project No. 2019-RR143, RR143 Pontchartrain Park Group D (FRC), New Orleans, LA: Provided professional engineering design services for FEMA-eligible street repairs and utility installations on assigned streets within the Pontchartrain Park neighborhood. Improvements include the following design features: roadway pavement and base construction complete with curbs, sidewalks, drives, and ADA handicapped ramps; subsurface drainage, water, and sanitary sewer installation. Final grades designed to be compatible with adjacent properties and existing pavements and provide for a positive flow of water towards catch basins. Project technical design work included horizontal and vertical design and modeling of fully reconstructed residential streets, hydraulic study for design and modeling of drainage system (pipe sizes ranging from 15" to 54", circular and arch), and design of water and sanitary sewer installations. Full roadway reconstruction and installation of 12" – 36" (EQ.) storm drains, 8" water mains, and 8" sanitary sewer gravity mains. Project work located along Mithra St., Providence Pl., Pressburg St., Prentiss Ave., and Press Dr. HEI Project No. 11-076-09D

Acadian Road Roundabout Route LA 20 (Canal Blvd.) and Local Routes (Back St., Jackson St., Thompson Pl.), Contract No. 4400004485, SPN. H009320.5, FAP No. H009320, Lafourche Parish, LA: Design of a traditional shaped dual lane 5-legged roundabout at the intersection of LA 20 and Jackson ST. in Thibodeaux, LA. The proposed roundabout shall branch from LA 20 into Canal Blvd. and Jackson St., also connecting Back St. and Thompson Pl. at the east and west approaches. Design will conform to EDSM V1.11.6. HEI Project No. 12-092-09

Lapalco Boulevard Improvements (Victory Drive – Westwood Drive), JPPW No. 96-019D-RBI, SPN. 742-26-0033, FAP No. HP-STP-6130(010) (Phase II), Jefferson Parish/LADOTD, LA: Preliminary and final construction plans for 0.8 miles of road widening (from 4-6 lanes), drainage improvements, wetland delineation and jurisdictional determination, public hearings, regulatory agency coordination, permitting, (404 from COE, Coastal Use from LDNR, Water Quality Certification from LDEQ), and wetland mitigation. HEI Project No.11-014-53

TEC Professional Services Questionnaire

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

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Madeline M. Bourgeois, E.I.
Project Engineer

Project Assignment:

Project Design

Name of Firm with which associated:



Years' experience with this Firm:

2 (2021)

Education: Degree(s)/Year/Specialization:

B.S., 2019, Civil Engineering, Louisiana State University, Baton Rouge, LA

Active registration: Year first registered/discipline:

Active Registration: Year First Registered: 2021

Discipline: Engineer Intern State: Louisiana License No.: EI34782

Other experiences and qualifications relevant to the proposed Project:

Ms. Bourgeois just started with HEI as an engineering intern in 2021. She began full-time in January 2022. Ms. Bourgeois has experience in Roadway/Highway projects, with these projects including safety widening and intersection improvements.

SPN H. SPN H.014100.5, LADOTD - Task Order – LA 408: I-110 End of Concrete Section (Hooper Rd.), IDIQ Contract for Pavement Preservation Services with Majority of Work in Districts 02, 03, 07, 61, and 62: The project includes concrete panel replacement and composite pavement repair along the travel lanes of LA 408 from 565- ft west of the CL of the I-110 overpass up to the end of concrete section (and including the intersection of LA 410 and LA 408). The Project also includes curb repair as needed. HEI Project No. 12-092-14a

SPN H.0141112, LADOTD - Task Order – LA 16, IDIQ Contract for Pavement Preservation Services with Majority of Work in Districts 02, 03, 07, 61, and 62: HEI's responsibilities will include removing the existing storm drain system and replace with a larger system. Also, to reduce head losses and sedimentation by removing the 90° angle in the system and implement uniformity in pipe size where applicable. These improvements will help prevent the flooding of LA 16 by adding a properly sized system with reduced head losses and in addition helping to eliminate flooding possibilities for the businesses fronting LA 16. HEI Project No. 12-092-14b

SPN H.012914.5, LADOTD - Task Order – LA 3073: Ambassador @ Bonin Improvements, IDIQ Contract for Pavement Preservation Services with Majority of Work in Districts 02, 03, 07, 61, and 62: HEI's responsibilities will include extending existing turn lanes to LA 89 and LA 3073. Extend the eastbound and westbound left turn lanes on LA 3073 and remove island between the left turn lane and the through lanes. Also, extend the eastbound and westbound right turn lanes on LA 3073. The widening of roadway and the median modifications in appropriate locations are to meet design standards. HEI Project No. 12-092-14z

TEC Professional Services Questionnaire

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

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:**

Stephen F. Urquhart
Civil/CAD Technician

Project Assignment:

Drafting and AutoCAD / Microstation Services

Name of Firm with which associated:

HEI **Hartman Engineering, Inc.**
Consulting Engineers

Years' experience with this Firm:

26 (1997)

Education: Degree(s)/Year/Specialization:

Assoc. Degree, Drafting/Design (AutoCAD/GIS), Baton Rouge Tech
Architecture Courses, University of Southwestern Louisiana

Active registration: Year first registered/discipline:

N/A

Other experiences and qualifications relevant to the proposed Project:

Mr. Urquhart has been a long-time member of HEI. Through his many years of service, he has amassed a wide range of drafting experience. In addition, through the years, he has become a competent design assistant on many diverse and complex projects. Mr. Urquhart is experienced in AutoCAD drafting/designing, ESRI ArcView/GIS mapping and database, extraction of GPS survey data for use in mapping via ArcView/GIS, illustrations, and renderings.

2007-070-WR, Grand Isle Waterline Improvements, Grand Isle, LA.: Design of approximately 7,500 feet of new, 12-inch, C-900 waterline from Ludwig Lane and LA 1 to Admiral Craig and Pirates Cove Marina Road, determine whether existing roadway servitudes are adequate to construct the line, taking into consideration above and below ground pipelines and other features within and/or crossing the servitudes, and responsible for integrating the waterline design (installation through various means i.e. open-cut, jack and bore) with such pipelines and features and coordinate the effort with local property and pipeline owners as needed. (HEI Project No. 12-014-72)

S&WB Contract No. R-053-2012, Water Line Replacement Program (Audubon, Uptown and West Riverside) Neighborhoods, New Orleans, LA: The purpose of this Project is to replace water lines in three neighborhoods on the New Orleans East Bank as a result of the floodwater from Hurricane Katrina in August 2005. The eligible water lines for replacement are based upon a FEMA and Board developed pipe evaluation criteria. All waterline work performed was coordinated with the City of New Orleans Street restoration program, Submerged Roads Program, ongoing Sewerage & Water Board projects for water point repairs, sewer repair and replacement projects.
(HEI Project No. 11-016-04)

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.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Stephen F. Urquhart
Civil/CAD Technician

Bedico-Faubourg Interconnect 12-inch Waterline, St. Tammany Parish, LA: Prepare Construction Plans and Specifications, Bidding and Construction Management Services for 5,000 LF of 12" Waterline Extension. This project will connect two different water systems. (HEI Project No. 12-126-02)

10-inch Waterline Extension along Gause Boulevard, Slidell, LA: Prepare Construction Plans and Specifications, Bidding, and Construction Management Services for approximately 2,000 LF of Waterline Extension along Gause Boulevard. (HEI Project No. 12-090-12)

DPW Project. No. 2017-RR189, PW7120355; K17-420, RR189 Village De L'est Group C (FRC), New Orleans, LA: HEI provided professional engineering design services for FEMA-eligible street repairs and utility installations on four assigned streets within the Village De L'Est Group C Project boundary. Design work included horizontal and vertical design and modeling of fully reconstructed residential streets, hydraulic study for design and modeling of drainage system (pipe sizes ranging from 15" to 54", circular and arch), and design of water and sanitary sewer installations. (HEI Project No. 11-076-08)

Faubourg Coquille Water System – Water Quality Evaluation, St. Tammany, LA: HEI is providing engineering services to conduct an analysis of Tammany Utilities' Faubourg Coquille water system. Tammany Utilities' has five wells on the Faubourg Coquille water system that include the Diversified Water Well, Faubourg Water Well, Timber Branch Water Well, Black River Water Well and the Christwood Water Well. The Faubourg Coquille water system currently serves approximately 4,300 customers. HEI is sampling and testing each well site to analyze for inorganics (catons and anions), silicon, TOC, silt density index (SDI) and soft metals. The data analysis will include a water chemistry balance. (HEI Project # 12-126-01-10)

Water Utility System Due Diligence Review and Evaluation (People's Water System), Ascension Parish, LA: Professional engineering services to include due diligence review and evaluation of infrastructure and related items associated with the possible purchase of a private water utility system in Ascension Parish. The purpose of this report is to present the results of an engineering review and evaluation of the potable water system, plant, and facilities owned and operated by the Peoples Water Service of Donaldsonville, Louisiana (PWS) serving the City of Donaldsonville and adjacent, limited portions of the unincorporated west bank Ascension Parish, Louisiana. The review and evaluation of the PWS facilities was made on behalf of the Parish of Ascension for the purpose of establishing an equitable basis for the possible purchase of the facilities. (HEI Project #12-031-08)

South Claiborne Avenue Canal II, Leonidas to Lowerline, New Orleans, LA. Owner: Sewerage & Water Board of New Orleans (2012). The project consisted of approximately 3,300 linear feet of box culvert parallel to an existing box on S. Claiborne between Leonidas to Lowerline. The new box culvert was approximately 15' x 10'. Additionally, the project consists of utility relocations and traffic control during construction. (HEI Project No. 11-029-02, 12-029-04)

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:

Nature of Firm's Responsibility:

**Waterline Improvements, Project No. 2007-070-WR
Grand Isle, LA**
HEI Project No. 12-014-72



Owner:
Jefferson Parish Dept. of Water
1221 Elmwood Park Blvd.
Jefferson, LA 70123



Contact:
Bob Dale
504-736-6724

HEI was responsible for integrating the waterline design with such pipelines and features and coordinating the effort with local property and pipeline owners as needed. Firm's Role: Design, Construction Administration, and Resident Inspection

Design of approximately 7500 feet of new, 12-inch, C-900 waterline from Ludwig Lane and LA 1 to Admiral Craig and Pirates Cove Marina Road, determine whether existing roadway servitudes are adequate to construct the line, taking into consideration above and below ground pipelines and other features within and/or crossing the servitudes.

% of work Performed in LA: 100%

Firm's Responsibility: Prime

Key Staff on Project:

- Jared B. Monceaux, P.E. (Project Manager; QA/QC)
- Rolland A. Mura, P.E. (Enviro. / Hydraulic Engineer)
- Danielle B. Connelly (Project Engineer)
- Stephen F. Urquhart (CAD Designer)



Completion Date (Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

Start Date: 2008
End Date: 2009

\$2,000 (Construction)

\$2,000

TEC Professional Services Questionnaire

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

PROJECT NO. 2

Project Name, Location and Owner's contact information:

Nature of Firm's Responsibility:

10-inch Waterline Extension along Gause Boulevard, Slidell, LA
HEI Project No. 12-090-12



Owner:
City of Slidell
P.O. Box 828
Slidell, LA 70458

Contact:
Blaine Clancy
985-646-4270



HEI will prepare Construction Plans and Specifications, Bidding, and Construction Management Services for approximately 2,000 LF of Waterline Extension along Gause Boulevard. Firm's Role: Engineering Design, Bidding, Permitting, and Construction Administration

The Gause Blvd. route corridor for the 10-inch waterline extension along Gause Blvd. is approximately 1,300 feet eastward from the northbound lanes of the Northshore Blvd. intersection. The professional services are to include the following for the 10-inch waterline extension: Surveying the proposed route and alignment on the north side of Gause Blvd. from northbound lanes of the Northshore Blvd. intersection, approximately 200 feet north of the west bound lanes of Gause Blvd. and on and along the north rights-of way of Gause Blvd. to approximately 200 feet east of the property located at 2170 Gause Blvd. The proposal is to include, at a minimum, the following information along the proposed route.

% of work Performed in LA: 100%

Firm's Responsibility: Prime

Key Staff on Project:

- Jared B. Monceaux, P.E. (Project Manager; QA/QC)
- Rolland A. Mura, P.E. (Enviro. / Hydraulic Engineer)
- Danielle B. Connelly (Project Engineer)
- Connor D. Guidry, E.I. (Project Engineer)
- Stephen F. Urquhart (CAD Designer)

Completion Date (Actual or estimated):

Estimated Cost:

Start Date: 2021
End Date: 2023 est.

Entire Project:

Work for which Firm was Responsible:

\$91,900 (Construction)

\$60,100 (Fee)

TEC Professional Services Questionnaire

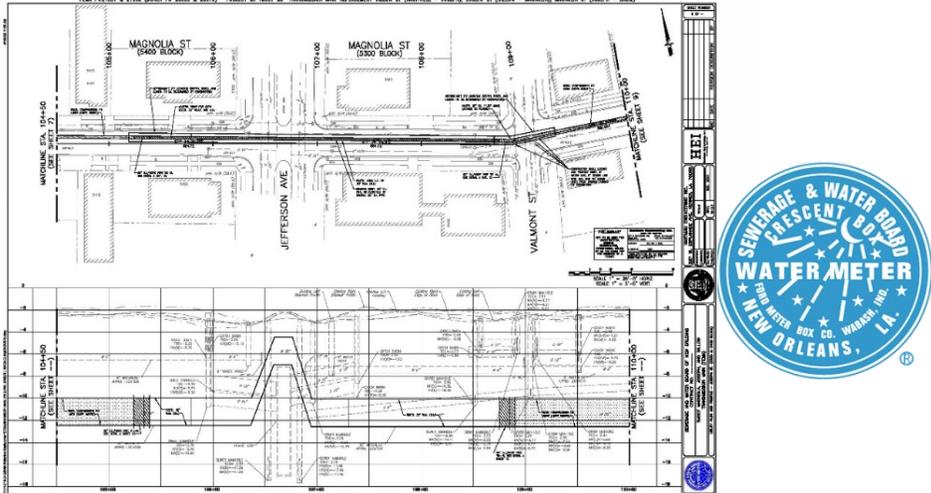
L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 3

<p>Project Name, Location and Owner's contact information:</p>	<p>Nature of Firm's Responsibility:</p>	
<p>Water Line Replacement Program (WLRP) – TM007 30-in Transmission Main Replacement Project - Magnolia, Joseph, and Willow (FEMA) New Orleans, LA <small>(HEI Project No. 11-016-04)</small></p> <p><i>Owner:</i> Sewerage and Water Board of New Orleans 625 Saint Joseph Street New Orleans, LA 70165</p> <p><i>Contact:</i> Randall Schexnayder, P.E. 504-930-7211</p> 	<p>HEI is responsible for performing design engineering services for TM007 Magnolia, Joseph and Willow Enhanced Transmission Main Project and continue providing construction services RR001 Audubon Group A Project.</p> <p>The 30-inch water main replacement design uses a combination of open cut trenching and swagelining methods, with open cuts starting on Willow from Nashville and swagelining segments on Joseph and Magnolia Streets, with an open cut crossing at the new drainage box culvert at Jefferson Ave. and the swagelining ending at Cadiz Street. Swagelining using 30-inch HDPE liner inserts.</p> <p>% of work Performed in LA: 100%</p> <p>Firm's Responsibility: Prime</p> <p>Key Staff on Project:</p> <ul style="list-style-type: none"> • Jared B. Monceaux, P.E. (Project Manager & QA/QC) • Rolland A. Mura, P.E. (Environmental / Hydraulic Engineer) • Danielle B. Connelly, P.E. (Project Engineer) • Connor D. Guidry, E.I. (Project Engineer) • Stephen F. Urquhart (CAD Designer)  	
<p>Completion Date (Actual or estimated):</p>	<p>Estimated Cost:</p>	
<p>Start Date: 2020 End Date: 2023 (Est.)</p>	<p>Entire Project:</p> <p>\$6,132,000</p>	<p>Work for which Firm was Responsible:</p> <p>\$30,092 (Fee)</p>

TEC Professional Services Questionnaire

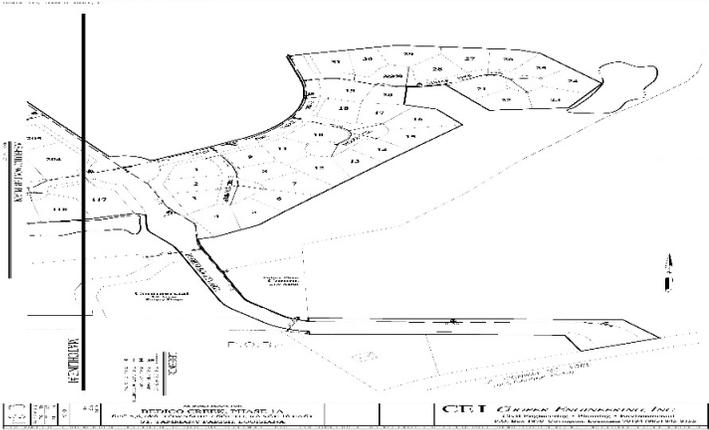
L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>S&WB Contract No. R-053-2012, Water Line Replacement Program (Audubon, Uptown, and West Riverside) Neighborhoods, New Orleans, LA HEI Project No. 11-016-04</p> <p style="text-align: center;"><i>Owner:</i> Sewerage and Water Board Of New Orleans 625 Saint Joseph Street New Orleans, LA 70165</p> <p style="text-align: center;"><i>Contact:</i> Susan Diehl Project Manager 504-930-7209</p> <p>% of work Performed in LA: 100%</p> <p>Firm's Responsibility: Prime</p> <p>Key Staff on Project:</p> <ul style="list-style-type: none"> • Jared B. Monceaux, P.E. (Project Manager; QA/QC) • Rolland A. Mura, P.E. (Enviro. / Hydraulic Engineer) • Sundararaja C. Rao, P.E. (Hydraulic Engineer) • Tony R. Tramel, P.E. (Traffic Engineer) • Stephen F. Urquhart (CAD Designer) 	<p>HEI was responsible for design of water lines recommended for replacement, including preparation of preliminary design plans, 70% plans, and final design plans, in accordance with Board standards. Developed opinion of probable construction cost. Firm's Role: Design, Bid Services, Resident Inspection, and Construction Management</p> <p>The purpose of this Project is to replace water lines in three neighborhoods on the New Orleans East Bank as a result of the floodwater from Hurricane Katrina in August 2005. The eligible water lines for replacement are based upon a FEMA and Board developed pipe evaluation criteria. All waterline work performed was coordinated with the City of New Orleans Street restoration program, Submerged Roads Program, ongoing Sewerage & Water Board projects for water point repairs, sewer repair and replacement projects. Over 12,700 linear feet of water mains are to be replaced in the West Riverside, Uptown, and Audubon neighborhoods.</p> <div style="text-align: right;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>Start Date: 2012 End Date: 2023 (est.)</p>	<p>\$3,200,000 (Construction)</p>	<p>\$415,155 (Fee)</p>

TEC Professional Services Questionnaire

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

PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Bedico-Faubourg Interconnect 12-inch Waterline, St. Tammany Parish, LA HEI Project No. 12-126-02</p> <p><i>Owner:</i> St. Tammany Parish P.O. Box 628 Covington, LA 70434</p> <p><i>Contact:</i> Andrew Hontiveros, P.E. 504-462-1147</p> 	 <p>HEI will prepare Construction Plans and Specifications, Bidding and Construction Management Services for 5,000 LF of 12" Waterline Extension. This project will connect 2 different water systems. Firm's Role: Engineering Design, Bidding, Resident Inspection, and Construction Administration</p> <p>The Bedico-Faubourg Interconnect Project will include the construction of approximately 5,000 LF of 12" water main along Louisiana Highway 1085 (LA-1085) from Bedico Boulevard to Red Fox Run Boulevard. The new 12" water main will be constructed to connect the Bedico and Faubourg Water Public Systems. The new 12" water main will tie-in to an existing 12" water main on Bedico Boulevard and existing 8" water main on Red Fox Run Boulevard. The new water main shall be constructed using C900 PVC and C906 HFPE and shall have 12" inside diameter as required to provide the desired flow and pressure. Additionally, fire hydrants and isolation valves shall be installed along the water main extension.</p> <p>% of work Performed in LA: 100%</p> <p>Firm's Responsibility: Prime</p> <p>Key Staff on Project:</p> <ul style="list-style-type: none"> • Jared B. Monceaux, P.E. (Project Manager; QA/QC) • Rolland A. Mura, P.E. (Enviro. / Hydraulic Engineer) • Danielle B. Connelly (Project Engineer) • Connor D. Guidry, E.I. (Project Engineer) • Stephen F. Urquhart (CAD Designer) 					
<p>Completion Date (Actual or estimated):</p> <p>Start Date: 2021 End Date: 2023 (Est.)</p>	<p>Estimated Cost:</p> <table border="1"> <thead> <tr> <th data-bbox="602 1682 1065 1759">Entire Project:</th> <th data-bbox="1065 1682 1554 1759">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td data-bbox="602 1759 1065 1839">\$575,575 est. (Construction)</td> <td data-bbox="1065 1759 1554 1839">\$122,100</td> </tr> </tbody> </table>		Entire Project:	Work for which Firm was Responsible:	\$575,575 est. (Construction)	\$122,100
Entire Project:	Work for which Firm was Responsible:					
\$575,575 est. (Construction)	\$122,100					

TEC Professional Services Questionnaire

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

PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>PW Project No. 2009-039-DR, Sauve Road Drainage Improvements, Jefferson Parish, LA <small>(HEI Project No. 13-014-77)</small></p> <p><i>Owner:</i> Jefferson Parish Dept. of Capital Projects 1221 Elmwood Park Blvd., Suite 906 Jefferson, LA 70123</p> <p><i>Contact:</i> Neil Schneider, P.E. 504-736-6833 nshneider@jeffparish.net</p> 	<div style="display: flex; justify-content: space-around;">   </div> <p>Provide A/E services (design and construction administration) for subsurface drainage improvements to the Sauve Road area in River Ridge, LA on the east bank of Jefferson Parish. The work consisted of construction of a drainage pump station with two 9,000 gpm pumps, associated discharge piping, gravity drain installations, and street work and utility adjustments.</p> <p>The work included:</p> <ul style="list-style-type: none"> • Directionally drilled 2,500LF of 30" DR11 and 36" DR11 HDPE lines with installation of accompanying required valves. • Mississippi River levee crossings to a river outfall. • Installation of standby generator w/transfer switch gear. <p>% of work Performed in LA: 100%</p> <p>Firm's Responsibility: Prime</p> <p>Key Staff on Project:</p> <ul style="list-style-type: none"> • Jared B. Monceaux, P.E. (Project Manager & QA/QC) • Sundararaja C. Rao, P.E. (Roadway/Hydraulic Engineer) • Danielle B. Connelly, P.E. (Project Engineer) • Stephen F. Urquhart (CAD Designer) 					
<p>Completion Date (Actual or estimated):</p> <p>Start Date: 2010 End Date: 2014 (Actual)</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Entire Project:</th> <th style="width: 50%; text-align: center;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">\$5,000 (Construction)</td> <td style="text-align: center;">\$735 (Fee)</td> </tr> </tbody> </table>		Entire Project:	Work for which Firm was Responsible:	\$5,000 (Construction)	\$735 (Fee)
Entire Project:	Work for which Firm was Responsible:					
\$5,000 (Construction)	\$735 (Fee)					

TEC Professional Services Questionnaire

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

PROJECT NO. 7

<p>Project Name, Location and Owner's contact information:</p>	<p>Nature of Firm's Responsibility:</p>	
<p>DPW Project. No. 2017-RR189, PW7120355; K17-420, RR189 Village De L'est Group C (FRC), New Orleans, LA <small>HEI Project No. 11-076-08</small></p> <p><i>Owner:</i> Sewerage and Water Board of New Orleans 625 Saint Joseph Street New Orleans, LA 70165</p> <p><i>Contact:</i> Brian Fontaine DPW Project Manager 504-658-8036</p> <p>% of work Performed in LA: 100%</p> <p>Firm's Responsibility: Prime</p> <p>Key Staff on Project:</p> <ul style="list-style-type: none"> • Jared B. Monceaux, P.E. (Project Manager & QA/QC) • Danielle B. Connelly, P.E. (Project Engineer) • Connor D. Guidry E.I. (Project Engineer) • Stephen F. Urquhart (CAD Designer) 	<p>HEI provided professional engineering design services for FEMA-eligible street repairs and utility installations on four assigned streets within the Village De L'Est Group C Project boundary. Design work included horizontal and vertical design and modeling of fully reconstructed residential streets, hydraulic study for design and modeling of drainage system (pipe sizes ranging from 15" to 54", circular and arch), and design of water and sanitary sewer installations.</p> <p>Improvements include the following design features: roadway pavement and base construction complete with curbs, sidewalks, drives, and ADA handicapped ramps; subsurface drainage, water, and sanitary sewer installation. Final grades are designed to be compatible with adjacent properties and existing pavements and provide for a positive flow of water towards catch basins.</p> <p>Key Project Elements:</p> <ul style="list-style-type: none"> • 6,500 linear feet of 15" – 54" Storm Drainpipe • 6,000 linear feet of 8" Water Main • 2,500 linear feet of 8" Sewer Gravity Main • Full Reconstruction of Roads, Sidewalks, and Drives 	
<p>Completion Date (Actual or estimated):</p>	<p>Estimated Cost:</p>	
<p>Start Date: 2017 End Date: 2022 (Actual)</p>	<p>Entire Project:</p> <p>\$7,500,00 (Construction)</p>	<p>Work for which Firm was responsible:</p> <p>\$955,461 (Fee)</p>

TEC Professional Services Questionnaire

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

PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>NOLA Motorsports Park, Jefferson Parish, LA HEI Project No. 13-115-01</p> <p><i>Owner:</i> Jefferson Parish Community Development 1221 Elmwood Park Boulevard Jefferson, LA 70123</p> <p><i>Contact :</i> Laney Chouest 504-569-0032</p> 	 <p>HEI design included the following items:</p> <ul style="list-style-type: none"> • Potable Water System, including water mains, fire hydrants, water service to curb, control valves and tie-in to Parish water system. • Sanitary Sewer System, including gravity sewers, manholes, sewer grinder pumps, sanitary sewer stub out to curb, master sewer pump station, connection to Parish sewer system and associated valves and devices. • Storm Water Drainage System, retention ponds, Jefferson Parish Drainage Report, and connection to Parish drainage system, catch basins, conduits, and associated devices. • Roadway, Paving and Parking plans, sidewalks, parking lots, roadway plan and profile, curbs, and details. • Site Grading plan, final elevations, cut and fill quantities, storm water control. This site grading plan will encompass the project site up to the limits of, but not including racetracks or structures. <p>This project included a 450-acre auto racetrack complex. Project included an overall site drainage study; design of access roads and parking areas (115,000 square yard), 8" water mains (22,315 linear feet), 8" sanitary sewer gravity main (12,345 linear feet), multiple pump stations with force mains (11,400 linear feet), various sized storm drainage facilities (15,150 linear feet); and an overall site grading plan. Firm's Role: Design and Construction Administration</p> <p>% of work Performed in LA: 100% Firm's Responsibility: Prime Key Staff on Project:</p> <ul style="list-style-type: none"> • Jared B. Monceaux, P.E. (Project Manager; QA/QC) • Rolland A. Mura, P.E. (Enviro. / Hydraulic Engineer) • Danielle B. Connelly (Project Engineer) • Stephen F. Urquhart (CAD Designer) 					
<p>Completion Date (Actual or estimated):</p>	<p>Estimated Cost:</p> <table border="1" data-bbox="602 1711 1578 1785"> <thead> <tr> <th data-bbox="602 1711 1065 1785">Entire Project:</th> <th data-bbox="1065 1711 1578 1785">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td data-bbox="602 1785 1065 1858">\$404 (Construction Fee)</td> <td data-bbox="1065 1785 1578 1858">\$404 (fee)</td> </tr> </tbody> </table>		Entire Project:	Work for which Firm was Responsible:	\$404 (Construction Fee)	\$404 (fee)
Entire Project:	Work for which Firm was Responsible:					
\$404 (Construction Fee)	\$404 (fee)					
<p>Start Date: 2010 End Date: 2011</p>	<p>\$404 (Construction Fee)</p>	<p>\$404 (fee)</p>				

TEC Professional Services Questionnaire

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

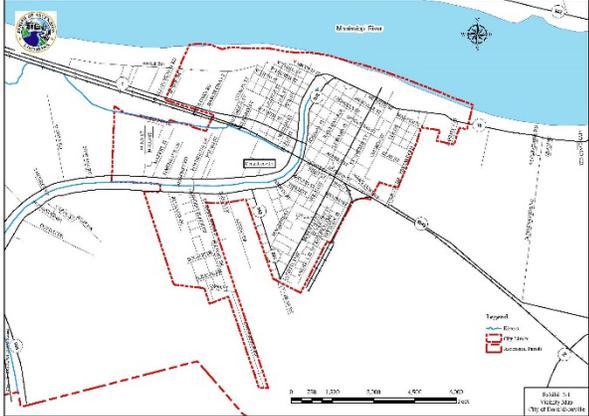
PROJECT NO. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Faubourg Coquille Water System – Water Quality Evaluation, St. Tammany, LA HEI Project No. 12-126-01-10</p> <p><i>Owner:</i> St. Tammany Parish Government P.O. Box 628 Covington, LA 70434</p> <p><i>Contact:</i> Andrew M Hontiveros, P.E. 985-898-2700</p> 	 <p>HEI was responsible for sampling and testing each well site to analyze for inorganics (catons and anions), silicon, TOC, silt density index (SDI) and soft metals. The data analysis will include a water chemistry balance. Firm's Role: Design and Construction Administration</p> <p>HEI is providing engineering services to conduct an analysis of Tammany Utilities' Faubourg Coquille water system. Tammany Utilities' has five wells on the Faubourg Coquille water system that include the Diversified Water Well, Faubourg Water Well, Timber Branch Water Well, Black River Water Well and the Christwood Water Well. The Faubourg Coquille water system currently serves approximately 4,300 customers.</p> <p>% of work Performed in LA: 100%</p> <p>Firm's Responsibility: Prime</p> <p>Key Staff on Project:</p> <ul style="list-style-type: none"> • Jared B. Monceaux, P.E. (Project Manager; QA/QC) • Rolland A. Mura, P.E. (Enviro. / Hydraulic Engineer) • Larry E. Shriver (Treatment Process Specialist) • Stephen F. Urquhart (CAD Designer) 					
<p>Completion Date (Actual or estimated):</p> <p>Start Date: 5/10/2021 End Date: 9/13/2021</p>	<p>Estimated Cost:</p> <table border="1"> <thead> <tr> <th data-bbox="602 1644 1065 1759">Entire Project:</th> <th data-bbox="1065 1644 1554 1759">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td data-bbox="602 1759 1065 1839" style="text-align: center;">\$35,000</td> <td data-bbox="1065 1759 1554 1839" style="text-align: center;">\$35,000</td> </tr> </tbody> </table>		Entire Project:	Work for which Firm was Responsible:	\$35,000	\$35,000
Entire Project:	Work for which Firm was Responsible:					
\$35,000	\$35,000					

TEC Professional Services Questionnaire

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

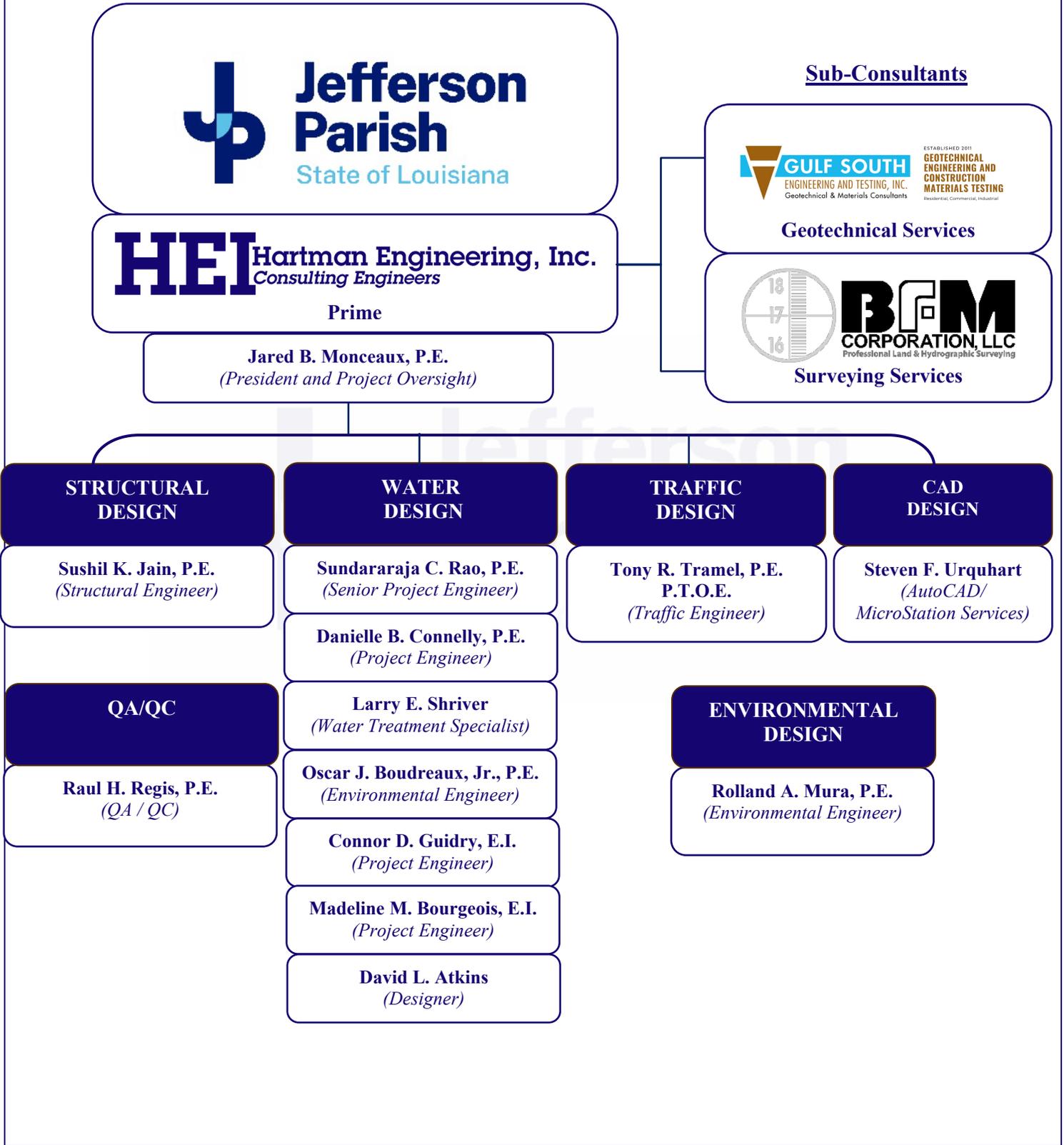
PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Water Utility System Due Diligence Review and Evaluation (People's Water System), Ascension Parish, LA HEI Project No. 12-031-08</p> <p><i>Owner:</i> Ascension Parish 615 E. Worthey St. Gonzales, LA 70737</p> <p><i>Contact:</i> Kenneth Dawson 225-450-1156</p> 	<p>Professional engineering services to include due diligence review and evaluation of infrastructure and related items associated with the possible purchase of a private water utility system in Ascension Parish. The purpose of this report is to present the results of an engineering review and evaluation of the potable water system, plant, and facilities owned and operated by the Peoples Water Service of Donaldsonville, Louisiana (PWS) serving the City of Donaldsonville and adjacent, limited portions of the unincorporated west bank Ascension Parish, Louisiana. The review and evaluation of the PWS facilities was made on behalf of the Parish of Ascension for the purpose of establishing an equitable basis for the possible purchase of the facilities. Firm's Role: Project Manager, Data Collection, Engineering, and Report Preparation.</p> <p>HEI responsibilities included acquiring the following information for each of the utility systems being evaluated:</p> <ul style="list-style-type: none"> • As-Built Plans and Specifications for the constructed facilities. • A minimum of 3 to 5 years of audited profit and loss statements. • Customer counts for each year of audited profit and loss statement provided. • Listings of Real Property with legal descriptions and plat as well as any servitude or property acquisitions. • Copies of LA DHH Sanitary Survey results and records of treated water • Any other listing of physical plants that the utility owner may have. • HEI, with the help from the Contract Engineer, prepared the Engineering Valuation including at a minimum a vicinity map reflecting the general location of the water utility and will prepare the Engineering Valuation. <p>% of work Performed in LA: 100% Firm's Responsibility: Prime Key Staff on Project:</p> <ul style="list-style-type: none"> • Jared B. Monceaux, P.E. (Project Manager; QA/QC) • Rolland A. Mura, P.E. (Environmental Engineer) • Sundararaja C. Rao, P.E. (Hydraulic Engineer) • Stephen F. Urquhart (CAD Designer) 	
<p>Completion Date (Actual or estimated):</p>	<p>Estimated Cost:</p>	
<p>Start Date: 2015 End Date: 2016</p>	<p>Entire Project: \$49,900 (Construction)</p>	<p>Work for which Firm was Responsible: \$49,900</p>

TEC Professional Services Questionnaire

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

HEI Organizational Chart



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.		None to Report
2.		
3.		
4.		

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

MINIMUM REQUIREMENTS FOR SELECTION:

- The persons or firms under consideration shall have at least one (1) principal who is a licensed, registered professional engineer in the State of Louisiana. A subcontractor may not be used to meet this requirement. (Section C. of TEC Professional Services Questionnaire)
 - Jared B. Monceaux, P.E. HEI PE 32202 Exp. 3/31/2024**
- The persons or firms under consideration shall have a professional in charge of the Project who is a licensed, registered professional engineer in the State of Louisiana with a minimum of five (5) years’ experience. A subcontractor may not be used to meet this requirement. (Section K. “PROFESSIONAL IN CHARGE OF PROJECT:” of TEC Professional Services Questionnaire)
 - Jared B. Monceaux, P.E. HEI PE 32202 Exp. 3/31/2024**
- The persons or firms under consideration shall have one (1) employee who is a licensed, registered professional engineer in the State of Louisiana in the applicable discipline involved. A subcontractor may meet this requirement only if the advertised Project involves more than one discipline (Section D. of TEC Professional Services Questionnaire)
 - Jared B. Monceaux, P.E. HEI PE 32202 Exp. 3/31/2024**
 - Rolland A. Mura, P.E. HEI PE 14997 Exp. 3/31/2024**
 - Danielle B. Connelly, P.E. HEI PE 36284 Exp. 9/30/2023**

1. PROFESSIONAL TRAINING AND EXPERIENCE (35 points)

HEI’s engineering projects consist mainly of Public Works such as wastewater system design and assessments, roads, streets, associated traffic design and control, drainage structures, canals, bridges, culverts, bulkheads, pump stations, levees, and floodwalls. Our work is usually in congested urban areas, so we are sensitive to consideration of the impact on adjacent residents and businesses. Relocation of conflicting facilities/utilities is a typical task. See Section L for detailed experience.

2. FIRM SIZE (10 points)

HEI has a full staff to provide engineering services, with offices in Kenner and Prairieville, Louisiana, providing all of the professional and support personnel required to complete the needs of this project. Tasks include project evaluation, project design, drafting of technical plans, development of technical specifications and construction administration.

HEI’s staff includes engineers with advanced civil and environmental engineering degrees with numerous professional and training certifications, including the prestigious Board Certification from the American Academy of Environmental Engineering.

HEI has a full staff of CAD, MicroStation, InRoads, and GIS professionals capable of handling the workload for the project at hand. They are fully versed in the requirements and expectations you have regarding guidelines and deliverables for this project.

3. CAPACITY FOR TIMELY COMPLETION (20 points)

HEI prides itself with meeting project deadlines requested by our clients. HEI offers the engineering and support staff required to meet accelerated deadlines and, most importantly, deliver a quality product in that time frame. A few examples of our promptness can be found in the following:

- a) **Soniat Canal Drainage Improvements preliminary plans, completed in only one month as requested by the client (Jefferson Parish).**
- b) **The East Baton Rouge City-Parish Project, 25th St – N. Acadian Project Design was 100% Complete within 7 months (including Survey Services and Geotechnical Analysis) of Notice to Proceed as per the request of City/Parish. HEI completed this project 2 months ahead of schedule.**

4. PAST PERFORMANCE (10 points)

HEI has a strong familiarity with the requirements and demands of this specific project type. **HEI's expertise in this particular project type is exemplified by their successful integration of waterline design with pipelines and features for Grand Isle in 2009.** See section L for more information on the project.

HEI is proud of our past performance and service to previous, present, and continuing clientele, and none of HEI’s past project work has been deemed to be at fault from design inadequacies, time delays and/or cost overruns. Our reputation in the field is excellent, and we enjoy a high rate of repeat business.

HEI recognizes that quality, accuracy, and timely work in both the design and construction phases, are the keys to a successful project. This is our commitment to the success of the projects you assign us.

5. LOCATION OF THE PRINCIPAL OFFICE (15 points)

The company has offices situated in Kenner and Prairieville, Louisiana, with the main office located in Jefferson Parish. The Kenner office will serve as the primary location for providing all professional services under this contract and will offer a convenient meeting location.

6. LITIGATION (15 points)

Over the course of 35 years of providing professional services, HEI has maintained a track record free from any litigation involvement with Jefferson Parish or any other clients.

7. PRIOR SUCCESSFUL COMPLETION OF PROJECTS. (15 points)

HEI has successfully completed many projects for Jefferson Parish in its more than thirty-year tenure including all aspects of planning, design, and construction for drainage, sewer, and roadway projects. We offer the following references for your review and invite you to contact them directly for a discussion of HEI’s capabilities.

<p>Mark Drewes, P.E., Dir. of Public Works Jefferson Parish 1221 Elmwood Park Blvd., Ste. 904 Jefferson, LA 70123 504-736-6783</p>	<p>Neil Schneider, P.E., Dir. of Capital Projects Jefferson Parish 1221 Elmwood Park Blvd., Ste. 906 Jefferson, LA 70123 504-736-6833</p>	<p>Mike Lockwood, MSPH, Dir. of Sewerage Jefferson Parish 1221 Elmwood Park Blvd., Ste. 803 Jefferson, LA 70123 504-736-6661</p>
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Jackie Baumann, P.E., City Engineer, City of Gonzales 120 S. Irma Blvd. Gonzales, LA 70737 225- 647-9589	Melissa LeBas, P.E., Urban Systems Project Mgr. LaDOTD 1201 Capital Access Road, Room S-616 Baton Rouge, LA. 70802 225-379-1046	Tom Schreiner, Deputy CAO Public Works and Capital Projects for City of Kenner 1610 Reverend Richard Wilson Drive Kenner, LA 70062 504-468-7515
Ryan Foster, P.E., Project Engineer Orleans Levee District 6920 Franklin Ave. New Orleans, LA 70122 504-286-3100	Ryan King, National Water Infrastructure 37458 Cornerview Road Geismar, LA 70734 225-673-3156	Jose Gonzales, P.E., Assistant Road Design Engineer Administrator, LADOTD 1201 Capitol Access Rd. Baton Rouge, LA 70802 225-379-1046
Ignacio Harrouch, P.E., Chief of Construction Coastal Protection Restoration Authority P.O. Box 44027 Baton Rouge, LA 70804 225-342-4501	Ron Savoy, Drainage Director East Ascension Drainage District 42077 Churchpoint Rd. Gonzales, LA 70737 225-621-5737	

PAST AND CURRENT PROFESSIONAL ACCOMPLISHMENTS

HEI has been licensed to do engineering in Louisiana for more than 30 years and has belonged or belongs to various professional organizations such as the ACEC (American Council of Engineering Companies), LES (Louisiana Engineering Society), ASCE (American Society of Civil Engineers), APWA (American Public Works Association), The Jefferson Parish Chamber of Commerce, Ascension Parish Chamber of Commerce, Better Business Bureau, and Society of American Military Engineers.

Members of the firm have held high office in professional organizations such as:

- President of Louisiana Water Environment Association - (Rolland Mura, P.E., B.C.E.E.)
- Director, New Orleans Branch of ASCE - (Rolland Mura, P.E., B.C.E.E.)
- Board Certified Environmental Engineer, American Academy of Environmental Engineers - (Rolland Mura, P.E. B.C.E.E.)
- Arthur Sidney Bedelle Award - Water Pollution Control Federation - (Rolland Mura, P.E., B.C.E.E.)

STATEMENT OF MAXIMUM FEE

The maximum professional services fees for any specific project arising out of this contract, including fees for preliminary design, bid, construction, and record drawing phases of the work, but exclusive of supplemental services, will be based on the ASCE professional services fee curve and will be determined on a project-by-project basis when such project scope and construction cost opinions become available.

Project Approach

HEI provides the engineering judgment and depth of experience, in addition to the latest computer technology to provide expertise during the project development stage. We realize that this initial phase of project development has a significant impact on the project delivery system. Successful completion of this phase can:

- ❖ Streamline initiation of design and completion of project construction.
- ❖ Allow better allocation of limited funding by providing project construction costs which are more accurate, and are less subject to change.
- ❖ Provide projects which, when completed, provide greater benefit to the public, both in safety, capacity, and economic development.

With this in mind, we have implemented a stringent Project Approach program, listed below:

<ul style="list-style-type: none"> • <u>Project Scope</u> 	<p>The first action taken by HEI’s Project Manager upon award of project is to develop the scope of the project. This scope will include a detailed listing of project tasks to be accomplished, the logical order to accomplish these tasks, and a listing of project deliverables. This scope is typically submitted, or at a minimum discussed, with the project owner to verify that HEI management and the owner see the project, the required tasks, and the final products the same way.</p>
<ul style="list-style-type: none"> • <u>Project Schedule</u> 	<p>The second action taken by HEI’s Project Manager is to develop a project schedule. Each task listed in the scope is given a start date, an estimated duration, and an estimated finish date. Once again this is forwarded to the owner’s representative for approval. The initial schedule is set to the owner’s requirements.</p>
<ul style="list-style-type: none"> • <u>Project Budget</u> 	<p>The Project Manager, based upon the project scope and project schedule, develops two budgets: one budget for the resources required to produce the finished project on schedule, and the second, in most cases, is a preliminary estimate of probable cost of construction. The first budget is submitted and usually used as the basis of a fee negotiation. Once completed, the project budget and schedule are the Project Manager’s guide to bring a quality project in on time. The second estimate, the probable cost of construction, is also a guide agreed to by the owner of the project design. It is referred to, updated, and reviewed at major milestones as the project progresses to completion.</p>
<ul style="list-style-type: none"> • <u>Quality Control/Quality Assurance</u> 	<p>QC/QA comprises an integral part of our design and project management process. Our QC/QA process is summarized as follows:</p>
<ul style="list-style-type: none"> • <u>General</u> 	<p>Ensuring a quality product is a primary goal of the firm. QC/QA is required for public safety as well as client satisfaction. The Manager of the firm QC/QA program is the president of the firm; subcontractors are included in the QC/QA program. All QC/QA plans shall include an independent check, a peer review, supervisory executive review, and a review by either the Owner or the Firm President.</p>
<ul style="list-style-type: none"> • <u>Check</u> 	<p>All computations, calculations, and drawings shall be checked by a competent qualified member of the team other than the originator and so marked.</p>
<ul style="list-style-type: none"> • <u>Peer Review</u> 	<p>All products shall be reviewed at the working level by an uninvolved, qualified team member. The results of the review shall be resolved before going to the Executive Review. A record of the checks and peer review shall accompany the product to the executive review.</p>
<ul style="list-style-type: none"> • <u>Executive Review</u> 	<p>The Project Manager shall ensure that the checks and reviews are complete, and resolve any unresolved issues from the review process. Cost estimates will be checked to ensure proper order of magnitude, and the project will then advance to the Owner or Firm President.</p>
<ul style="list-style-type: none"> • <u>Owner/President Review</u> 	<p>The Owner/President shall ensure that the checks and reviews are complete, resolve any outstanding issues, review the product, and determine if any changes are required in the QC/QA procedures.</p>

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

Signature:  **Print Name:** Jared B. Monceaux, P.E.

Title: President **Date:** April 28, 2023



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

Mr. Jared Blayne Monceaux

License/Certificate Type - Number Expiration Date
PE.0032202 **03/31/2024**

Status: **Active**

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

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



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Phone (225) 925-6291
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Mrs. Danielle Bordelon Connelly

License/Certificate Type - Number Expiration Date
PE.0036284 **09/30/2023**

Status: **Active**

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).

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Mr. Oscar James Boudreaux Jr.

License/Certificate Type - Number Expiration Date
PE.0018859 **03/31/2025**

Status: **Retired**

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).

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Mr. Rolland Anthony Mura

License/Certificate Type - Number Expiration Date
PE.0014997 **03/31/2024**

Status: **Active**

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).

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Mr. Sundararaja Channakesavapura Rao

License/Certificate Type - Number Expiration Date
PE.0017005 **09/30/2023**

Status: **Retired**

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).

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Mr. Raul H. Regis

License/Certificate Type - Number Expiration Date
PE.0034006 **09/30/2024**

Status: **Active**

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).

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Phone (225) 925-6291
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Mr. Tony R. Tramel

License/Certificate Type - Number Expiration Date
PE.0019268 **09/30/2024**

Status: **Active**

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).

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Mr. Sushil K. Jain

License/Certificate Type - Number Expiration Date
PE.0015712 **09/30/2023**

Status: **Retired**

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).

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Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Connor Guidry

License/Certificate Type - Number Expiration Date
EI.0033801 **03/31/2025**

Status: **Active**

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DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Hartman Engineering, Inc.

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

This certification is valid from 6/14/2022 to 6/14/2023 .

Certification No. 13205

A handwritten signature in black ink that reads "Stephanie R. Hartman". The signature is written in a cursive style and is positioned above a horizontal line.

**Stephanie Hartman,
Director, Entrepreneurial Services**



Division of Small and Emerging Business Development
SEBD CERTIFICATION

Hartman Engineering, Inc.

is hereby certified as a Small and Emerging Business Enterprise.

This certification is valid beginning 6/20/2016 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 6/20/2016

This certification expires on: 6/20/2026

Certification No. 13205

A handwritten signature in black ink that reads "John W. Matthews, Jr." with a stylized flourish at the end.

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



City of Gonzales

120 SOUTH IRMA BOULEVARD • GONZALES, LOUISIANA 70737 • PHONE (225) 647-2841 • FAX (225) 647-9557

BARNEY D. ARCENEUX
MAYOR/ADMINISTRATOR

DAVID J. GUITREAU-Division A
COUNCILMAN
DRAINAGE COMMISSIONER

KIRK J. BOUDREAU-Division B
COUNCILMAN
MAYOR PRO-TEMPORE
TREASURER
STREETS COMMISSIONER
AEDC LIAISON

HAROLD L. STEWART-Division C
COUNCILMAN
FIRE-DEPARTMENT COMMISSIONER
SANITATION COMMISSIONER

TYLER J. TURNER-Division D
COUNCILMAN
ASSISTANT TREASURER
UTILITIES COMMISSIONER

NEAL M. BOURQUE-Division E
COUNCILMAN
RECREATION COMMISSIONER
TOURIST COMMISSIONER

SHERMAN D. JACKSON
CHIEF OF POLICE

TRACEY N. NORMAND
FIRE CHIEF

CLAY A. STAFFORD
CITY CLERK
FINANCE DIRECTOR

ERIN LANOUX
CITY ATTORNEY

May 31, 2017

Mr. Jared Monceaux P.E., President
Hartman Engineering, Inc.
16563 Airline Highway, Suite A
Prairieville, LA 70769

Subject: City of Gonzales, Ascension Parish
LA 30: Turn Lanes @ S. Purpera & S. Hodgeson
LADOTD S.P.N. H.011490

Dear Mr. Monceaux:

I am writing to acknowledge and commend you for the excellent performance of Hartman Engineering, Inc. on the subject project and the resultant improvements to the intersection of LA 30 and Purpera in the City of Gonzales. Your firm's planning, design, and engineering services will ultimately lead to improved traffic safety and increased efficiency thru the intersection. Hartman Engineering has been responsive and adaptive to the needs of the City and its citizens in addressing the growing and high profile traffic conditions in Gonzales.

HEI and its key staff have provided excellent services for this transportation project and have fulfilled all task responsibilities in a quality, timely, and professional manner. The commitment of your design team and staff was integral to the success of the project and keeping the improvements on schedule and within budget.

The City of Gonzales is honored to have your firm as a valued member of our team. I would whole-heartedly recommend Hartman Engineering for consideration for future transportation projects.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jackie Baumann".

Jackie Baumann, P.E.
City Engineer
City of Gonzales, Louisiana

CC: Mayor Barney Arceneaux



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

February 10, 2012

Engineering Division
Control Branch

Mr. B. K. Sneed, CEO
Hartman Engineering, Inc.
527 West Esplanade Avenue, Suite 300
Kenner, LA 70065-2568

Dear Mr. Sneed:

The US Army Corps of Engineers would like to take this time to extend both our gratitude and appreciation to your firm for its contribution towards design and construction of the Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS).

On August 29, 2005, Hurricane Katrina struck South Louisiana resulting in unprecedented devastation. Since that tragic day, the US Army Corps of Engineers and our A-E partners have worked expeditiously to design and construct the HSDRRS.

Your firm's responsibility for one or more actions affiliated with design, planning, modeling, engineering during construction, environmental studies or construction management was instrumental in completing expedited design and construction of the HSDRRS.

The commitment of your firm's leadership and design team was integral to our success in delivering a world class system with functional capability for the 2011 Hurricane Season. Your dedication to quality and delivery has been evident resulting in improved public safety and risk reduction for the greater New Orleans area.

The New Orleans District is truly honored to have your firm as a valued member of our team. Please accept my sincere thanks and the enclosed certificate expressing our appreciation.

ESSAYONS!

Sincerely,


WALTER O. BAUMMY JR., P.E.
Chief, Engineering Division

Enclosure



USACE - New Orleans District
Certificate of Appreciation

is presented to

Hartman Engineering, Inc.

For exceptional achievement in support of the Mississippi Valley Division's New Orleans District and the execution of the Hurricane and Storm Damage Risk Reduction System (HSDRRS) mission. The Hartman Engineering, Inc. contractors' professionalism, competence, and initiative were instrumental to the successful execution in surveying of multiple sites critical to the completion of both design and the construction of the HSDRRS project.

Hartman Engineering's outstanding achievement is in keeping with the finest traditions of public service and reflects great credit upon the Hartman Engineering, Inc. team, the U.S. Army Corps of Engineers, and the United States Army.

06 February 2012



**US Army Corps
of Engineers**®
New Orleans District

Edward R. Fleming
Colonel, US Army
Commander, New Orleans District
US Army Corps of Engineers



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

August 4, 2008

Hartman Engineering, Inc.
527 West Esplanade Avenue, Suite 300
Kenner, LA 70065

Subject: Environmental Justice Support for Environmental Compliance for New Orleans Area Hurricane Protection System; St. Charles, Jefferson, Orleans, St. Bernard and Plaquemines Parishes (COE No. W912P8-07-D-0014, Task Order 5)

Gentlemen:

I would like to acknowledge Hartman Engineering, Inc.'s excellent performance on all facets of their ongoing environmental justice support to the Corps' New Orleans area hurricane protection system projects. They have been responsive and adaptive to the various changing conditions and demands of the project and public sensitivity in post-Hurricane Katrina New Orleans. HEI's products and professionalism have had a positive impact on the Corps' efforts to engage the public during this time of rebuilding.

The high profile and complex nature of this project cannot be overemphasized. HEI has done an excellent job in fulfilling the task responsibilities with care towards quality, timeliness, professionalism and public attitudes. Negotiating the myriad interactions between a multitude of public, private and community organizations was handled quite professionally by HEI. Their level of commitment to the project is commendable and I would whole-heartedly recommend HEI be considered for planning projects in the future.

Sincerely,

A handwritten signature in cursive script that reads "Joan M. Exnicios".

Joan M. Exnicios
Chief, Natural and Cultural
Resources Analysis Section



ESTABLISHED 2011

**GEOTECHNICAL
ENGINEERING AND
CONSTRUCTION
MATERIALS TESTING**

Residential, Commercial, Industrial

Sub - Consultant

Geotechnical Engineering

**GULF SOUTH ENGINEERING AND
TESTING, INC.**
15 VETERANS MEMORIAL
BOULEVARD KENNER LA 70062

CHAD M. POCHÉ, P.E.
PRINCIPAL/VICE PRESIDENT
TELEPHONE 504-305-4401
CPOCHE@GULFSOUTHENG.COM

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Professional Engineering Services for the Grand Isle Waterline Lowering Project

SOQ 23-008 | Resolution No. 141453

B. Firm Name & Address:



Gulf South Engineering and Testing, Inc.

15 Veterans Memorial Boulevard

Kenner LA 70062

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

Chad M. Poché, P.E., Principal/Vice President

telephone 504-305-4401 • cpoche@gulfsoutheng.com

Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

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

Chad M. Poché, P.E., Principal/Vice President

telephone 504-305-4401 • cpoche@gulfsoutheng.com

Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

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

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

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

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

TEC Professional Services Questionnaire

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

1. N/A

2.

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

YES _____ NO _____ N/A

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

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

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

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

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Chad M. Poché, P.E.
Vice-President

Project Assignment:

Engineering Manager; Geotechnical Engineer

Name of Firm with which associated:



Years experience with this Firm:

12 years with this firm (2011); 30 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 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 relevant to the proposed Project:

Chad M. Poché, P.E. (continued)

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

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

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

Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side. (\$35,000 (fee); 2022)

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)

Water Main Improvements (5 Sites), LaPalace, 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); ongoing)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Joseph H. "Trey" Binder, III
Laboratory Manager

Project Assignment:

Laboratory Manager; Laboratory Technician

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

12 years with this firm (2011); 17 years total (2006)
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., 2011, General Studies, Nunez Community College

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

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

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

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 relevant to the proposed Project:

Joseph H. Binder, III (continued)

Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side. (\$35,000 (fee); 2022)

Water Main Improvements (5 Sites), LaPalace, 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); ongoing)

Williams Boulevard Street Lighting (32nd St. to Vintage Dr.), City of Kenner, LA. Geotechnical investigation for construction of street lighting on Williams Boulevard, between 32nd Street to Vintage Drive. Gulf South's scope includes drilling four soil borings each to a depth of 50 feet, lab testing (strength and classification), and geotechnical engineering analysis including allowable pile load capacities, estimates of settlement, and general construction recommendations. (\$12,000 (fee); 2016)

S. Claiborne Avenue Drainage Improvements (TRS System), Sewerage & Water Board of New Orleans, LA. Geotechnical engineering services for the drainage improvements along S. Claiborne Avenue from Ben Weiner Drive to Jefferson Avenue in Orleans Parish, which involved a temporary retaining system (TRS; a sheetpile wall for excavation). Gulf South's scope includes drilling six undisturbed soil borings to depths of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$11,000 (fee); 2021)

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)

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Bryson S. Beard, E.I.

Associate Geotechnical Engineer/Field Engineer

Project Assignment:

Associate Geotechnical Engineer/Field Engineer

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

1 year with this firm (2022); 2 years total (2021)

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

TetraTech, Inc. | 2021 to 2022

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

Georgia, Engineering Intern (No. EIT029180, 2022)

Louisiana P.E. License In Process

Other experience and qualifications relevant to the proposed Project:

Bryson S. Beard, E.I., is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. Experience includes geotechnical engineering analyses consisting of shallow & deep foundations, slope stability, 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. This experience also includes core logging & oversight of groundwater monitoring well installations, piezometers, and inclinometers. He has been responsible for the preparation of reports and Facility Response Plans. Further, Mr. Beard is a START V Region 4 Responder, and can be used whenever there is a large spill/release of harmful chemical or substance.

- 40-hour HAZWOPER (Hazardous Materials Field Work), since 2021
- Fundamentals of Engineering Exam, NCEES, 2022
- ACI Concrete Field Testing Technician - Grade I (No. 02206940)

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

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

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

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)

Water Main Improvements (5 Sites), LaPalace, 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); 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 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); ongoing)

Wastewater Treatment Plant Improvements, Eden Isle Subdivision, Slidell, St. Tammany Parish, LA. Geotechnical engineering services for the construction of a new elevated storage building housing six blower units and slab-on-grade supported water storage, concrete tank within the wastewater treatment plan off Lakeview Drive in Slidell, LA. Gulf South's scope includes drilling two undisturbed soil borings to depths of 40 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$7,500 (fee); 2022)

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)

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

Brewster Road/LA 1077 Drainage Improvements, Madisonville, St. Tammany Parish, LA. Geotechnical engineering services for drainage improvements at the existing parish canal off LA-1077 and Galatas Road in Madisonville, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet (2 locations) and 30 feet (3 locations) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$20,000 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Evan O. Poché
Engineering Technician

Project Assignment:

Engineering Technician

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

7 years with this firm (2016); 7 years total (2016)
Gulf South Engineering and Testing, Inc. | 2016 to present
BFM Corporation, LLC | 2019 to 2020

Education: Degree(s)/Year/Specialization:

B.A., Political Science (2021; Millsaps College)
Degree Program, Criminal Justice (2016 - 2019; Mississippi College)
High School Diploma (2016; Jesuit HS; Cum Laude with Honors)

Active registration: Year first registered/discipline:**Other experience and qualifications relevant to the proposed Project:**

Since joining Gulf South, Evan Poché has served as an engineering technician with the soil boring drill crew, within the soils' laboratory, and on construction projects as needed. His duties and responsibilities have included leading a drill crew, staking boring sites, supervising clearing contractors, data entry, testing soil for engineering properties of strength and classification, soil boring logging, vibration monitoring, and concrete testing and inspection. Laboratory tests performed include unconfined shear tests, moisture content tests, density tests, Atterberg limits tests, grain size sieve analyses, organic content tests and concrete strength breaks.

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 relevant to the proposed Project:

Evan O. Poché (continued)

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

Kinler & Paul Fredrick Street Drainage Improvements, Luling, St. Charles Parish, LA. Geotechnical investigation for paved and/or reconstruction of Kinler and Paul Frederick Streets in Luling in St. Charles Parish, LA. Scope included drilling a total of 10 undisturbed soil borings for the project (five borings within each roadway to a depth of 10 feet below the pavement surface). Geotechnical laboratory testing was performed on selected samples collected during the exploration in accordance with appropriate ASTM standards; this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/or particle size). Following the collection of the field and laboratory data, a geotechnical engineer performed the evaluations necessary to characterize the subsoil conditions of the site and develop the engineering recommendations and analyses. This included current pavement materials and thicknesses, flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2022)

Lift Station No. 4330 Upgrade (New Wet Well), City of Kenner, LA. Geotechnical investigation related to the upgrades (below grade wet well and valve vault structures) of the existing below-grade Sewer Lift Station No. 4330 at 131 W. Esplanade Ave. in Kenner, LA. Scope involved drilling two undisturbed soil borings to depths of 70 feet (1 boring for wet well) and 15 feet (1 boring for valve pit) below the existing ground surface. Geotechnical laboratory testing was performed in accordance with the appropriate ASTM standards, this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/or particle size). Geotechnical evaluations (necessary to characterize the subsoil conditions of the site and develop engineering recommendations and analyses) included allowable pile load capacities, estimates of settlement, below-grade foundations (as appropriate), bedding and backfill recommendations, and general construction procedures and recommendations. (\$8,500 (fee); 2022)

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)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ian Kerner Poché
Assistant Laboratory Supervisor

Project Assignment:

Assistant Laboratory Supervisor

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

6 years with this firm (2017); 6 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:**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.

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

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.

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Ian Kerner Poché (continued)

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)

Lift Station No. 4330 Upgrade (New Wet Well), City of Kenner, LA. Geotechnical investigation related to the upgrades (below grade wet well and valve vault structures) of the existing below-grade Sewer Lift Station No. 4330 at 131 W. Esplanade Ave. in Kenner, LA. Scope involved drilling two undisturbed soil borings to depths of 70 feet (1 boring for wet well) and 15 feet (1 boring for valve pit) below the existing ground surface. Geotechnical laboratory testing was performed in accordance with the appropriate ASTM standards, this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/or particle size). Geotechnical evaluations (necessary to characterize the subsoil conditions of the site and develop engineering recommendations and analyses) included allowable pile load capacities, estimates of settlement, below-grade foundations (as appropriate), bedding and backfill recommendations, and general construction procedures and recommendations. (\$8,500 (fee); 2022)

Kinler & Paul Fredrick Street Drainage Improvements, Luling, St. Charles Parish, LA. Geotechnical investigation for paved and/or reconstruction of Kinler and Paul Frederick Streets in Luling in St. Charles Parish, LA. Scope included drilling a total of 10 undisturbed soil borings for the project (five borings within each roadway to a depth of 10 feet below the pavement surface). Geotechnical laboratory testing was performed on selected samples collected during the exploration in accordance with appropriate ASTM standards; this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/or particle size). Following the collection of the field and laboratory data, a geotechnical engineer performed the evaluations necessary to characterize the subsoil conditions of the site and develop the engineering recommendations and analyses. This included current pavement materials and thicknesses, flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2022)

City of New Orleans Municipal Yacht Harbor Fishing Pier and Restroom, City of New Orleans, LA. Gulf South performed the Geotechnical Investigation for the project, which consists of a new fishing pier and restroom building at the Municipal Yacht Harbor along the south shore of Lake Pontchartrain in New Orleans, LA. The restroom will be an elevated structure, approximately 700 square feet, and constructed on land. The pier will be approximately 300 to 400 feet in length and extend from shore into Lake Pontchartrain. The project involves field investigation, laboratory testing, and geotechnical engineering services. (\$42,070 (fee); 2023)

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

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Cody Barrois
Soil Boring Driller

Project Assignment:

Soil Boring Driller

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

1 year with this firm (2022); 2 years total (2021)
Gulf South Engineering and Testing, Inc. | 2022 to present
Ardaman and Associates | 2020 to 2022

Education: Degree(s)/Year/Specialization:

High School Diploma, 2012 (Central Lafourche HS)

Active registration: Year first registered/discipline:**Other experience and qualifications relevant to the proposed Project:**

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

- OSHA Basic Training
- Entergy PowerSafe Training
- Transportation Worker Identification Card (TWIC)

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, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$100,000 (fee); ongoing)

Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side. (\$35,000 (fee); 2022)

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Central Avenue Water Main Upgrade, Phase I (Central Ave. Between Airline Hwy. & Karen Ave.), Jefferson Parish, Louisiana</p> <p>Principal Engineering, Inc. 1011 North Causeway Blvd, Suite 19 Mandeville LA 70471</p> <p>Andre Monnot, P.E., 985-624-5001 andre@principal-engineering.com</p>	<p>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.</p>	
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:	
<p>Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, Louisiana</p> <p>Ardurra Group, Inc. 3012 26th Street Metairie LA 70002</p> <p>Joe Becker, P.E., 504-454-3866 jbecker@ardurra.com</p>	<p>Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2021	N/A	\$8,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Bayou Sauvage Water Control Pipe Replacement, U.S. Wildlife & Fisheries, New Orleans, Louisiana</p> <p>Johnson McAdams 340 Poplar View Lane East, Suite 4 Collierville TN 38017</p> <p>Chip Johnson, P.E., 901-861-4200 chipjohnson@bellsouth.net</p>	<p>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.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2012	N/A	\$3,500 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, Louisiana</p> <p>ECM Consultants, Inc. 1301 Clearview Parkway Suite 200 Metairie LA 70001</p> <p>Susina Shrestha, P.E., 504-885-4080 sshrestha@ecmconsultants.com</p>	<p>Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2022	N/A	\$35,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>LaPlace Water Source Project: New Intake, Pump Stations & Pretreatment Facility, LaPlace, St. John the Baptist Parish, Louisiana</p> <p>Barowka & Bonura Engineers & Consultants LLC 209 Canal Street Metairie LA 70005</p> <p>Jeff Bonura, P.E., 504-828-0030 jbonura@bbecllc.com</p>	<p>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.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
ONGOING	N/A	\$100,000 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Water Main Improvements (5 Sites), LaPalace, St. John the Baptist Parish, Louisiana</p> <p>Meyer Engineers, Ltd. 4937 Hearst Street Metairie LA 70001</p> <p>Eric Colwart, P.E., 504-885-9892 colwart@meyer-e-l.com</p>	<p>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.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
ONGOING	N/A	\$15,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>S. Claiborne Avenue Drainage Improvements (Temporary Retaining System), Sewerage & Water Board of New Orleans, Louisiana</p> <p>Meyer Engineers, Ltd. 4937 Hearst Street, Suite 1B Metairie LA 70001</p> <p>Jitendra Shah, P.E., 504-885-9892 jshah@meyer-e-l.com</p>	<p>Geotechnical engineering services for the drainage improvements along S. Claiborne Avenue from Ben Weiner Drive to Jefferson Avenue in Orleans Parish, which involved a temporary retaining system (TRS; a sheetpile wall for excavation). Gulf South's scope includes drilling six undisturbed soil borings to depths of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2021	N/A	\$11,000 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Water Well (Town Center Parkway & I-10 Crossings), City of Slidell, Louisiana</p> <p>City of Slidell Engineering Department Post Office Box 828 Slidell LA 70459</p> <p>Blaine Clancy, P.E., 985-646-6124 bclancy@cityofslidell.org</p>	<p>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.</p>	
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. 9		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Williams Boulevard Street Lighting (32nd Street to Vintage Drive), City of Kenner, Louisiana</p> <p>Rahman & Associates, Inc. 3645 Williams Blvd. Ste. 208 Kenner LA 70065</p> <p>Tafoor Hameed, P.E., 504-469-0022 tafoor@bellsouth.net</p>	<p>Geotechnical investigation for construction of street lighting on Williams Boulevard, between 32nd Street to Vintage Drive. Gulf South's scope includes drilling four soil borings each to a depth of 50 feet, lab testing (strength and classification), and geotechnical engineering analysis including allowable pile load capacities, estimates of settlement, and general construction recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	N/A	\$12,000 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, Louisiana</p> <p>Rahman & Associates, Inc. 3645 Williams Blvd Ste 208 Kenner LA 70065</p> <p>Tafoor Hameed, P.E., 504-469-0022 tafoor@bellsouth.net</p>	<p>Geotechnical investigation for the reconstruction of David Drive and the construction of drainage improvements (approx. 3000 ft.) along David Drive from W. Esplanade Avenue to Bruin Drive in Metairie. Gulf South's scope includes drilling four soil borings each to a depth of 20 feet, lab testing, and geotechnical engineering analysis including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, pavement design recommendations, and general construction recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2015	N/A	\$7,500 (fee)

TEC Professional Services Questionnaire

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

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

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



CRITERIA 1 • PROFESSIONAL TRAINING AND RELATED EXPERIENCE

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

Gulf South is a woman-owned, Hudson Initiative-certified & Regional Transit Authority-recognized small business in Louisiana. Our laboratory is AASHTO and CCRL certified and USACE validated.

TEC Professional Services Questionnaire

N. continued.

Geotechnical Engineering Services

Gulf South's ownership and senior management have decades of combined experience in the profession and have completed thousands of projects. One of Gulf South's Principals, Chad M. Poché, P.E., a founding principal and Professional Engineer registered in Civil Engineering in Louisiana and Mississippi, has specific and extensive training & experience in geotechnical engineering. He has three decades of experience in planning, administering, and conducting geotechnical investigations.

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

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

Field Investigation Services

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

Laboratory Testing Services

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

TEC Professional Services Questionnaire

N. continued.

Construction Materials Testing & Inspection

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

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

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

CRITERIA 2 • SIZE OF FIRM

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

CRITERIA 3 • CAPACITY FOR TIMELY COMPLETION OF NEWLY-ASSIGNED WORK

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

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

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 4 • PAST PERFORMANCE ON PARISH CONTRACTS

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

- *N. Sibley Drainage Improvements (N. Sibley at W. Napoleon), Metairie, Jefferson Parish, LA*
- *Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, Jefferson Parish, LA*
- *Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA*
- *Westgate Drainage Improvements, Metairie, Jefferson Parish, LA*
- *Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA*
- *Parish Line Drainage Pump Station Improvements - Phase I, City of Kenner, Jefferson Parish, LA*
- *Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, LA*
- *Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA*
- *Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA*
- *David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, LA*
- *Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, LA*
- *Improvements to Sewer Lift Station No. 48-3, Metairie, Jefferson Parish, LA*
- *New Building and Parking Lot, East Bank Juvenile Services, Jefferson Parish, LA*
- *Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, LA*
- *Sewer Lift Station at Mississippi Avenue & 21st Street, Metairie, Jefferson Parish, LA*
- *Jefferson Parish Dept. of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *Johnny Bright Playground Gymnasium HVAC Installation, Metairie, Jefferson Parish, LA*
- *Kennedy Heights Playground Gymnasium HVAC Renovation, Avondale, Jefferson Parish, LA*
- *New Building and Paved Areas, Jefferson Parish Transit Facility, Jefferson Parish, LA*
- *New Building and Parking Lot, East Bank Juvenile Services, Jefferson Parish, LA*
- *Training Facility - New Airnasium and Paved Areas, Jefferson Parish Fire Dept., Bridge City, Jefferson Parish, LA*
- *New Library Building (US90 & Avondale Garden Road), Avondale, Jefferson Parish, LA*
- *Jefferson Parish Fire Fleet Maintenance Facility - New Paved Areas, Jefferson Parish, LA*
- *Harvey Volunteer Fire Department New Truck Maintenance Facility (Rochelle Ave), Harvey, Jefferson Parish, LA*
- *New Charter School – Behrman Highway, Terrytown, Jefferson Parish, LA*
- *Jefferson Parish Department of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *Jefferson Parish Library Renovations (2350 Metairie Road), Metairie, Jefferson Parish, LA*
- *Jefferson Parish Fire Department – Garage (River Road), Bridge City, Jefferson Parish, LA*
- *Earhart Expressway (Clearview Parkway to Central Avenue) Lighting Improvements, Jefferson Parish, LA*
- *West Esplanade Avenue Restoration (Tartan Drive to Haring Road), Metairie, Jefferson Parish, LA*
- *Improvements to Sewer Lift Station M-11-3 & Force Main, Marrero, Jefferson Parish, LA*
- *Bike Path Soil Borings, Jefferson Highway to Northline Street, Jefferson Parish, LA*
- *Green Acres Road - New Street Lighting, Metairie, Jefferson Parish, LA*
- *Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA*
- *New Sewer Force Main Installation (Midway & Wildwood to Lift Station E3-1), Jefferson Parish, LA*
- *St. Peter's Ditch - Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA*
- *Lift Station Replacement - N. Pierce Avenue & Versailles Street, Metairie, Jefferson Parish, LA*
- *Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA*

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 5 • LOCATION OF PRINCIPAL OFFICE

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

CRITERIA 6 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

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

CRITERIA 7 • PRIOR SUCCESSFUL COMPLETION OF PROJECTS

The Principals and key employees of Gulf South have many years of applicable experience in working for and with Government Agencies and private industry. We are proud that a majority of its work is from repeat clients –we complete our projects on-time and within budget. **Multiple examples of this work are included throughout this form in both the Personnel Résumés section (Item K) and Representative Project Work (Item L).**

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

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)

Sid Trouard, P.E., Program Manager, Sewerage Capital Improvement Program, Jefferson Parish
(504-736-6386 | STrouard@jeffparish.net)

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

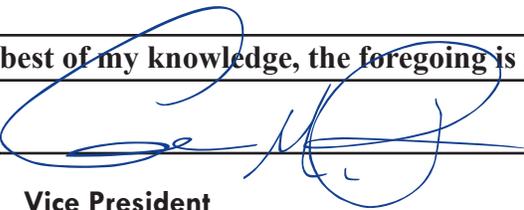
Michael B. Cooper, Parish President, St. Tammany Parish
(985-898-2362 | president@stpgov.org)

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: _____

Vice President

Date: _____

April 19, 2023

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

Name: Gulf South Engineering and Testing, Inc.
Public Address: Mr. Chad Poche, PE15 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: **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. Ralph P. Fontcuberta Jr.

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

Status: **Active**



GULF SOUTH

ENGINEERING AND TESTING, INC.
 Geotechnical & Materials Consultants



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Gulf South Engineering and Testing, Inc.

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

This certification is valid from 1/26/2023 to 1/26/2024 .

Certification No. 11011

A handwritten signature in black ink that reads "Stephanie Hartman". The signature is written in a cursive style and is positioned above a horizontal line.

Stephanie Hartman,
Director, Entrepreneurial Services





Regional Transit Authority

July 28, 2022

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

Dear Ms. Poche:

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

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

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

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

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

Sincerely,

A handwritten signature in purple ink that reads "Adonis C. Expose". The signature is written in a cursive, flowing style.

Adonis C. Expose
DBE/SBE Liaison Officer III

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



GULF SOUTH

ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants



CERTIFICATE OF ACCREDITATION



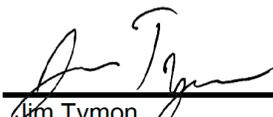
Gulf South Engineering and Testing, Inc.

in

Kenner, Louisiana, USA

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

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).



Jim Tymon,
AASHTO Executive Director



Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 01/16/2023 at 1:03 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory





USACE CERTIFICATE
OF
LABORATORY VALIDATION



Gulf South Engineering and Testing

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

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

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

09 SEP 2022 AT 11:51 HOURS

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 04/12/2024

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

A handwritten signature in black ink, appearing to read "Chad A. Gartrell", is written over a horizontal line.

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



BFM
CORPORATION, LLC
Professional Land & Hydro-graphic Surveying

Sub - Consultant

Surveying

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

CHAD M. POCHÉ, P.E.
EXECUTIVE VICE PRESIDENT
TELEPHONE 504-468-8800
CPOCHE@BFMCORPORATION.COM

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

**Professional Engineering Services for the
Grand Isle Waterline Lowering Project**
SOQ 23-008 | Resolution No. 141453

B. Firm Name & Address:



BFM
CORPORATION, LLC
Professional Land & Hydrographic Surveying

BFM Corporation, LLC
15 Veterans Memorial Boulevard
Kenner LA 70062

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

Chad M. Poché, P.E., Executive Vice President
504-468-8800 • 504-460-5239 cell • cpoche@bfmcorporation.com
Registered Professional Civil Engineer, Louisiana No. 27667 (since 1998)

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

Ralph P. Fontcuberta, Jr., Executive Vice President • LA License No. 4329 (1974)
504-468-8800 • 504-451-7500 cell • ralph@bfmcorporation.com
Registered Professional Land Surveyor, Louisiana No. 4329 (since 1974)

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

4 Administrative	- Estimators	- Specification Writers
- Architects (Licensed)	- Geologists	- Structural Engineers
- Chemical Engineers	1 Geotechnical Engineers	- Graduate Engineers
- Civil Engineers	- Interior Designers	2* Project Managers
- Construction Inspectors	- Landscape Architects	- Clerical (<i>see Administrative</i>)
- Ecologists	- Land Surveyor (<i>see PLS</i>)	- Grant/Funding Specialist
- Electrical Engineers	- Mechanical Engineers	- Sanitary Engineers
- Engineer Intern	- Environmental Engineers	1 Principals
2 Professional Land Surveyors		1 Researcher/Archivist
		3 Drafting/AutoCADD
		5 Survey Crew Chiefs
		6 Instrument Men
		24 TOTAL

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

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

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

TEC Professional Services Questionnaire

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

1. N/A

2.

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

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

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

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

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

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

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

Project Assignment:

Registered Professional Land Surveyor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

41 years (Founding Principal of BFM in 1982); 56 years total (1967)

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

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

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

- *Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Jefferson Parish, LA*
- *Locate 16-inch Water Line between Valve Stations 18 and 24, Grand Isle, Jefferson Parish, LA*
- *Water Line Location Surveying, Grand Isle, Jefferson Parish, LA*
- *Fifi Island/Bayou Rigaud Water Line Location, Grand Isle, Jefferson Parish, LA*
- *Grand Isle Water Main Location, Jefferson Parish, LA*
- *Grand Isle Water Tower Site Project, Town of Grand Isle, Jefferson Parish, LA*
- *Evans Road Waterline Repair – Mississippi River Levee Cross Section, Jefferson Parish, LA*
- *Iris Avenue Water Line Replacement, Jefferson Parish, LA*
- *Lower Lafitte Waterline Stakeout, Jefferson Parish, LA*
- *Belle Chasse Waterline, Phase 2, Plaquemines Parish, LA*
- *Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA*
- *River Road Water Line, Waggaman, Jefferson Parish, LA*
- *River Road Water Line Replacement (Phase II), Jefferson Parish, LA*
- *Proposed Water Line Extension (Jordan Road), Vancleave, Jackson County, Mississippi*
- *Town of Jean Lafitte Drainage Improvements, Jefferson Parish, LA*
- *17th Street Canal Drainage Improvements, Jefferson/Orleans Parishes, LA*
- *Hickory Drainage Study, Jefferson Parish, LA*
- *DFIRM H&H Modeling, East Bank Basin, Jefferson Parish, LA*
- *18th Street Drainage Improvements (18th St from Division to W Esplanade Ave), Jefferson Parish, LA*
- *Johnson Street Drainage Improvements (Phases I & II), Jefferson Parish, LA*
- *Earhart and Clearview Interchange Drainage Study, Jefferson Parish, LA*
- *Canal "D" Drainage Improvements, Westwego Pump Station Nos. 1 & 2, Jefferson Parish, LA*
- *West Bank Expressway, Phase I Drainage Map, from Peters Rd to Manhattan Blvd, Jefferson Parish, LA*
- *Survey Update of the Marrero Pump Station, Marrero, Jefferson Parish, LA*
- *Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA*
- *Marsh Island (Lafreniere Park), Metairie, Jefferson Parish, LA*
- *Boothville Water Treatment Plant, Plaquemines Parish, LA*
- *Roadway Surveys, Belle Chasse Barge Offloading Waterline Connection, Plaquemines Parish, LA*
- *St. Bernard Water Distribution System Line Replacement Project (Multiple Areas), St. Bernard Parish, LA*
- *Crown Point Drainage Flood Control Structures, Jefferson Parish, LA*
- *Hurricane Gustav Drainage Canal Repairs, East Bank, Jefferson Parish, LA*
- *Maplewood & Paillet HMGP Project, West Bank Subsurface Drainage Improvement Program Phase II, Jefferson Parish, LA*
- *Hilling Ditch Drainage Improvements, Jefferson Parish, LA*

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

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

Project Assignment:

Engineering Liaison

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

6 years (became partial owner of BFM in 2017); 30 years total (1993)

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

Mr. Poché is an Executive Vice President with (and partial owner of) BFM Corporation, LLC, and a co-founder of BFM's sister company, Gulf South Engineering and Testing, Inc. He has been a consulting geotechnical engineer for more than 20 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

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

BFM Corporation projects overseen by Mr. Poché would include:

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E. (continued)

Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50 foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE). (\$478,744 (fee); 2020)

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

Bonnabel Canal, from W. Esplanade Avenue to Veterans Boulevard, Jefferson Parish, Metairie, LA. The project, being executed for the Jefferson Parish Department of Capital Projects, involves establishing a baseline and setting Temporary Benchmarks. Scope includes location of improvements, utilities, and applicable trees. Spot elevations are included. The project is utilizing established Jefferson Parish GIS to show the apparent rights-of-way. The project involves 4100 lf of topographic survey along the Bonnabel Canal, from West Esplanade Avenue to Veterans Memorial Boulevard. (\$63,000 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

John Philip Thayer
Field Operations Supervisor

Project Assignment:

Field Operations Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

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

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

Professional Land Surveyor Registration in process, State of Louisiana

Other experience and qualifications relevant to the proposed Project:

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

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

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

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

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

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

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

John Philip Thayer (continued)

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

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

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

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

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

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

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

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

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

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gary J. Lambert, Jr., PLS
Registered Professional Land Surveyor

Project Assignment:

Registered Professional Land Surveyor; Project Manager/Drafting Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

5 years (joined BFM in 2018); 12 years total

Education: Degree(s)/Year/Specialization:

B.S., 2018, Geomatics, Nicholls State University
B.S., 2014, Construction Management, Louisiana State University

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50 foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. Scope included establishing three static GPS observation points at major turns on the levee to ensure baseline is constrained to State Plane Coordinates; BFM also

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

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

established a baseline along the centerline of the existing earthen levee (referenced to NAD 1983 2011). BFM set vertical control Temporary Benchmarks (TBM) which were referenced to horizontal control points (NAVD 1988 Geoid 12B). Plotted a cross section depicting the ground, edge of water, top and toe of earthen levee, and levee centerline at typical widths of 100 feet. Located visible above-ground utilities as well as underground utilities with visible surface evidence (where available, BFM obtained record drawings from relevant agencies to further plot utilities), as well as existing wall, center of pumps, and discharge pipes at the existing pump station. Trees and large shrubbery & etc. were located and described. Existing improvements (such as sheds, piers, and buildings) and trees were included in general location surveying. Deliverables included hardcopy, PDF, and AutoCAD DWG files. (\$150,000 (fee); 2018)

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE). (\$478,744 (fee); 2020)

Bonnabel Canal, from W. Esplanade Avenue to Veterans Boulevard, Jefferson Parish, Metairie, LA. The project, being executed for the Jefferson Parish Department of Capital Projects, involves establishing a baseline and setting Temporary Benchmarks. Scope includes location of improvements, utilities, and applicable trees. Spot elevations are included. The project is utilizing established Jefferson Parish GIS to show the apparent rights-of-way. The project involves 4100 lf of topographic survey along the Bonnabel Canal, from West Esplanade Avenue to Veterans Memorial Boulevard. (\$63,000 (fee); 2022)

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

Power Boulevard at Vintage Drive, Kenner, Jefferson Parish, LA. A survey update was provided by BFM, which was a continuation of a previous surveying project executed by the company. The scope of work included updating or addition of topographic survey at the intersection of Vintage Drive and Power Boulevard, and shooting two cross sections along the canal adjacent to a proposed bridge location. BFM further located the waterline, new monument along Power Boulevard, and located the monument of Lot 7 and adjacent property line along Janice Street and Vintage Boulevard. (\$11,390 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Lemley
Quality Control Supervisor

Project Assignment:

Quality Control Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

9 years (joined BFM in 2014); 17 years total (2006)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

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

Belle Chasse Waterline, Phase 2, Plaquemines Parish, LA. BFM executed a topographic survey for the project. The scope of services for the project included establishing a baseline and an on-site temporary benchmark with additional TBMs at 500 foot intervals along the project route. Elevations were taken along the baseline at intervals defined in the limits of the survey and at breaks in grade. Improvements within the designated limits of survey were plotted; as were above-ground utilities and those underground utilities with visible surface evidence. Boundary corners were located along the route to assist in determining widths of any existing rights of way. (\$53,357 (fee); 2015)

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 further located. (\$84,700 (fee); 2015)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Thomas O. Wright
Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:



Years experience with this Firm:

15 years (joined BFM in 2008); 46 years total (1977)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

Locate 16-inch Water Line between Valve Station 18 and Valve Station 24, Grand Isle, Jefferson Parish, LA. The purpose of the survey was to locate the 16-inch water line between Valve Station 18 and Valve Station 24. 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. (\$133,444 (fee); 2014)

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 further located. (\$84,700 (fee); 2015)

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:

33 years (joined BFM in 1990); 33 years total (1990)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

River Road Water Line, Waggaman, Jefferson Parish, LA. As requested by the Project Engineer, BFM provided water line location & general surveying services for the project, which extended from the St. Charles Parish line to Rivet Boulevard in Waggaman. The topographic survey involved the route along River Road from the common boundary line between Jefferson Parish and St. Charles Parish easterly along River Road to 200 feet east of its intersection with Rivet Boulevard on the west bank of Jefferson Parish. The survey extended from right of way to right of way along River Road. (\$43,211 (fee); 2012)

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 Rigaud 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

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Eric Gladney
Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

9 years (joined BFM in 2014); 22 years total (2001)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

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

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Jeff Patin
Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

4 years (joined BFM in 2019); 24 years total (1999)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

Transportation Work Identification Card (TWIC)

Other experience and qualifications relevant to the proposed Project:

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

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

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Anthony Watson
CADD Technician

Project Assignment:

CADD Technician

Name of Firm with which associated:



Years experience with this Firm:

12 years (joined BFM in 2011); 32 years total (1992)

Education: Degree(s)/Year/Specialization:

Coursework - CAD, Avatech Solutions, Los Colinas, TX

Active registration: Year first registered/discipline:

NA

Other experience and qualifications relevant to the proposed Project:

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

Locate 16-inch Water Line between Valve Station 18 and Valve Station 24, Grand Isle, Jefferson Parish, LA. 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. (\$133,444 (fee); 2014)

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Shaun Clements
CADD Technician

Project Assignment:

CADD Technician

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

5 years (joined BFM in 2018); 8 years total (2015)

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

NA

Other experience and qualifications relevant to the proposed Project:

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

Sewer Lift Station L-13-6, Ehret Road, Marrero, Jefferson Parish, LA. BFM's surveying scope involved topographic and boundary surveying services. (\$8,790 (fee); 2019)

Holly Drive Drainage Project, Lewisburg Estates Subdivision, Mandeville, St. Tammany Parish, LA. BFM provided boundary with topographic surveying of the project site (multiple lots) in the Lewisburg Estates Subdivision for this drainage project. (\$13,392 (fee); 2019)

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

West Bank Bus Stop Improvements, Jefferson Parish, LA. BFM's surveying services involved topographic surveying (25 ft grid) for multiple bus stop locations (AV26, AV27, AV3 (6 sites), AV40, AV42, AV43, AV44, AV45, AV47, AV65, AV74, AV76, HL67, MR44, MR52). (\$26,622 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Kevin A. Roberts
CADD Technician

Project Assignment:

CADD Technician

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

5 years (joined BFM in 2018); 38 years total (1985)

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

NA

Other experience and qualifications relevant to the proposed Project:

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

Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50 foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

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:

14 years (joined BFM in 2009); 26 years total (1997)

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

NA

Other experience and qualifications relevant to the proposed Project:

Locate 16-inch Water Line between Valve Station 18 and Valve Station 24, Grand Isle, Jefferson Parish, LA. 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. (\$133,444 (fee); 2014)

Belle Chasse Waterline, Phase 2, Plaquemines Parish, LA. BFM executed a topographic survey for the project. The scope of services for the project included establishing a baseline and an on-site temporary benchmark with additional TBMs at 500 foot intervals along the project route. Elevations were taken along the baseline at intervals defined in the limits of the survey and at breaks in grade. Improvements within the designated limits of survey were plotted; as were above-ground utilities and those underground utilities with visible surface evidence. Boundary corners were located along the route to assist in determining widths of any existing rights of way. (\$53,357 (fee); 2015)

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

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.		
PROJECT NO. 1		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Grand Isle, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Department of Capital Projects 1221 Elmwood Park Blvd, Suite 906 Jefferson LA 70123</p> <p>Reda M. Youssef, P.E., Director, 504-736-6833</p>	<p>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 a previous project for the Parish (BFM 7317; Fifi Island/Bayou Rigaud Water Line Location, 2010), BFM located both the upper & lower portions of the 16-inch water line. This left the approx. 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 RTN is maintained by LSU and allowed for sub-centimeter level accuracy with GPS. Data was delivered in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013	N/A	\$363,080 (fee)

PROJECT NO. 2		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Locate 16-inch Water Line between Valve Station 18 and Valve Station 24, Grand Isle, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Water Department 1221 Elmwood Park Blvd Ste 909 Jefferson LA 70123</p> <p>R. Douglas Vincent, P.E., 504-838-4363 JPWater@jeffparish.net</p>	<p>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.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	N/A	\$133,444 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, Louisiana</p> <p>Kyle Associates, LLC 638 Village Lane North Mandeville LA 70471</p> <p>Phil O. Nelson, P.E., 985-727-9377 pnelson@kyleassociates.net</p>	<p>BFM Corporation 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.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2016	N/A	\$14,804 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Lower Lafitte Waterline Stakeout, Jefferson Parish, Louisiana</p> <p>CB&I 2424 Edenborn Avenue Suite 450 Metairie LA 70001</p> <p>Gene S. Gillen, P.E., 504-832-4881 gene.gillen@cbi.com</p>	<p>BFM Corporation 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.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2017	N/A	\$38,205 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Belle Chasse Waterline, Phase 2, Plaquemines Parish, Louisiana</p> <p>Kyle Associates, LLC 638 Village Lane North Mandeville LA 70471</p> <p>Franklin Kyle, 985-727-9377</p>	<p>BFM executed a topographic survey for the project. The scope of services for the project included establishing a baseline and an on-site temporary benchmark with additional TBMs at 500 foot intervals along the project route. Elevations were taken along the baseline at intervals defined in the limits of the survey and at breaks in grade. Improvements within the designated limits of survey were plotted; as were above-ground utilities and those underground utilities with visible surface evidence. Boundary corners were located along the route to assist in determining widths of any existing rights of way.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2015	N/A	\$53,357 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>St. Bernard Water Distribution System Line Replacement Project (Multiple Areas), St. Bernard Parish, Louisiana</p> <p>Meyer Engineers Ltd. 4937 Hearst St. Ste. B Metairie LA 70001</p> <p>Ana Theriot, P.E., 504-885-9892</p>	<p>BFM Corporation provided surveying services at three locations for the replacement of the St. Bernard Parish water distribution system, including Reunion (from River Bend to Louis), Rowley (from Judge Perez to Parish), and Livingston (from Jean Lafitte to Pakenham). The scope of work involved establishing a baseline, setting temporary benchmarks (TBMs), and taking elevations (as well as spot elevations). Improvements were located and plotted within the designated limits of survey. The location of visible above ground utilities and those underground utilities with visible surface evidence was also plotted. 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 further located. Deliverables included plan and profile sheets and electronic field roll in AutoCAD DWG format, with cross-section sheets provided.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2016	N/A	\$64,104 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>River Road Water Line Replacement (Phase II), Jefferson Parish, Louisiana</p> <p>Digital Engineering 527 W Esplanade Ave Ste 200 Kenner LA 70065</p> <p>Frank T. Liang, P.E., 504-468-7515 fliang@deii.net</p>	<p>As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willwood 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 further located.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2015	N/A	\$84,700 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, Louisiana</p> <p>Brown Cunningham Gannuch 3012 26th Street Metairie LA 70002</p> <p>Ann Sprinston, 504-454-3866 asprinston@ardurragroup.com</p>	<p>BFM provided topographic, bathymetric, and boundary surveying services for the project. The scope of services included extension of the project baseline along the shoreline of Bayou Barataria and towards LA45. The topographic survey was executed with sufficient intermittent shots to establish grade, and located all topographic features that could interfere with the proposed floodwalls and levee. Cross sections were also taken, with hydrographic surveys continuing out into the water and terminating at the thalweg. Overall, the surveying and mapping included sufficient topographic surveys and cross sections necessary to design, layout, access, construct, and perform the work.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2015	N/A	\$12,197 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>River Road Water Line, Waggaman, Jefferson Parish, Louisiana</p> <p>Digital Engineering 527 W Esplanade Ave Ste 200 Kenner LA 70065</p> <p>Frank T. Liang, P.E., 504-468-7515 fliang@deii.net</p>	<p>As requested by the Project Engineer, BFM provided water line location & general surveying services for the project, which extended from the St. Charles Parish line to Rivet Boulevard in Waggaman. The topographic survey involved the route along River Road from the common boundary line between Jefferson Parish and St. Charles Parish easterly along River Road to 200 feet east of its intersection with Rivet Boulevard on the west bank of Jefferson Parish. The survey extended from right of way to right of way along River Road.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
November 2012	N/A	\$43,211 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Iris Avenue Water Line Replacement, Jefferson Parish, Louisiana</p> <p>Lambert Engineers, LLC 650 Poydras Street, Suite 2025 New Orleans LA 70130</p> <p>Dennis Lambert, P.E., 504-529-7687</p>	<p>BFM Corporation 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.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2011	N/A	\$18,493 (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.	<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> <p style="text-align: center;"><i>BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i></p> </div>	
2.		
3.		
4.		

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

BFM CORPORATION, LLC

Professional Land & Hydrographic Surveying

CRITERIA 1 • PROFESSIONAL TRAINING AND RELEVANT PROJECT EXPERIENCE

Established in 1982, **BFM Corporation, LLC, Professional Land & Hydrographic Surveying**, provides services to public & private concerns throughout Louisiana and the Gulf South. For over 40 years, BFM has provided surveying services covering all facets of engineering, construction, and forensics; topographic, and hydrographic, 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 and LiDAR**
- **Bathymetric / Hydrographic Surveys**
- **Property, Boundary, and Right-of-Way Surveys**
- **Maps, Cross-Sections, and Data Sets**
- **3D Laser Scanning**

TEC Professional Services Questionnaire

N. continued.

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

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

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

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

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

When needed, BFM 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.

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

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.

TEC Professional Services Questionnaire

N. continued.

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

CRITERIA 3 • CAPACITY FOR TIMELY COMPLETION OF NEWLY-ASSIGNED WORK

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

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

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

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

CRITERIA 4 • PAST PERFORMANCE ON PARISH CONTRACTS

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

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

CRITERIA 5 • LOCATION OF PRINCIPAL OFFICE

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

CRITERIA 6 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 7 • PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

Mark R. Drewes, P.E., Director, Jefferson Parish Public Works Department

(504-736-6783 | JPPW@jeffparish.net)

Neil Schneider, CCM, P.E., Director, Capital Projects, Jefferson Parish Public Works 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, City of New Orleans Dept. of Public Works

(504-658-8000 | khsaleh@nola.gov)

Ben Lapine, Acting Director, Department of Sewerage, 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: _____

April 21, 2023

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

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

License/Certificate Information w/ Supervision

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



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

Mr. Ralph P. Fontcuberta Jr.

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



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

Mr. Chad Mitchell Poche

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



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(LAPELS)**
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Gary James Lambert Jr.

License/Certificate Type - Number	Expiration Date
PLS.0005259	03/31/2024
Status: Active	



Division of Small and Emerging Business Development
SEBD CERTIFICATION

BFM CORPORATION, LLC

is hereby certified as a Small and Emerging Business Enterprise.

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

Issued at Baton Rouge, Louisiana 7/19/2019

This certification expires on: 7/19/2029

Certification No. 9551

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



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

BFM CORPORATION, LLC

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

This certification is valid from 10/12/2022 to 10/12/2023 .

Certification No. 9551

Stephanie Hartman,
Director, Small Business Services