

Hartman Engineering, Inc.

Consulting Engineers

July 16, 2024

To:



Subject: SOQ 24-020
Coastal Engineering Consulting Services as needed Parish Wide
Resolution No. 144205
Response to Request for Statement of Qualifications

We are pleased to respond to your Request for Statement of Qualifications on the above subject project. We are a Jefferson Parish engineering firm with over three decades of experience providing critical civil and environmental engineering services to public and private clients, including major roadway, drainage, coastal, planning, design, and management services. HEI has a proven history of providing excellent professional services to local clients and is therefore intimately familiar with local geographic and environmental conditions. We have uploaded our response for your review and consideration.

We believe our past and current experience on these projects will make us a prime candidate for consideration. Please feel free to contact us at 504-466-5667 if you require any additional information.

Sincerely,
Hartman Engineering, Inc.

A handwritten signature in blue ink, appearing to read 'Jared B. Monceaux', written over a horizontal line.

Jared B. Monceaux, P.E.
President

JBm/am

Enclosures



Jefferson Parish TEC Professional Services Questionnaire

Revised Form 02/02/2022

TEC Professional Services Questionnaire**A. Project Name and Advertisement Resolution Number:****Coastal Engineering Consulting Services as needed Parish Wide****SOQ #24-020****Resolution No. 144205****B. Firm Name & Address:**

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

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:

Jared B. Monceaux, P.E., President
LA License No. 32202 (2006)
 jmonceaux@harteng.com
 504-466-5667

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
 504-466-5667

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 | 1 | Environmental Engineers | 1 | Designer |
| | Professional Land Surveyors | 1 | CAD Draftsman | 16 | 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

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

1. Not applicable

2.

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

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

| Name & Address: | Specialty | Worked with Firm Before (Yes or No): |
|--|---|--------------------------------------|
| 1.  Gulf South Engineering and Testing, Inc. 15 Veterans Memorial Boulevard Kenner LA 70062 | Geotechnical Engineering | Yes |
| 2.  BFM Corporation, LLC 15 Veterans Memorial Boulevard Kenner LA 70062 | Professional Land & Hydrographic Surveying | Yes |
| 3. | | |

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

16

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:**Years' experience with this Firm:**

17 (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)

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.

Contract No. 4400010492: "Limited General Engineering Services for CPRA" Task Order No. 3 - Rockefeller Wildlife Refuge Piers and Signage Project (ME-0036) – Design, Cameron Parish, LA – HEI provided Design for the installation of up to 560 feet of new piers at three locations within the Refuge. The piers will be of similar design to piers recently developed in the Refuge. Project improvements also include proposed informational, educational, and location-related signage throughout the Refuge. (HEI Project No. 12-123-01- 03)

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

Contract No. 4400018113: "Limited General Engineering Services for CPRA" Task Order No. 1, (TE-0045) Terrebonne Bay Shoreline Demonstration Features Removal – Engineering and Design, Lafourche Parish, LA– HEI provided Engineering Design Services for an 8-year demonstration project to evaluate and document the effectiveness of 3 shoreline/foreshore protection techniques designed to reduce shoreline erosion and promote oyster reef building at the head of a bay or coastal lake. Three reaches (A, B, and E) were selected from 5 potential site as most suitable to demonstrate the shoreline protection techniques. Each reach is approx. 1,500 linear ft. in length. The 3 shoreline treatments include Triton Gabion Mats Filled with Rock, A-Jacks, and Reefblks. (HEI Project No. 12-123-01- 02)

Contract No. 440026128, "Limited Engineering Services for CPRA" Task Order No. 1 – Caernarvon Outfall Management (BS-0003A), Plaquemines Parish, LA – This Outfall Management Project includes spoil bank repairs, water control structure removal, water control gate replacements, and warning sign replacements. HEI provided Project Management, Engineering, and Design Services. (HEI Project No. 12-123-03- 01)

Contract No. 4400010492, "Limited General Engineering Services for CPRA", Task Order No. 1 – Little Lake Shoreline Protection & Marsh Creation (BA-0037), Purchase Order No. 2000328458. Located in Lafourche Parish, Louisiana, on shoreline protection rock of Segment 1 and Segment 2 of the BA-0037 project, a boat is required to reach the project site with an access route from Bayou Barataria. The rock dike begins at the mouth of Superior Canal and Brusle Lake and follows the lake rim to John Fool Bayou to the east. The maintenance work is between Bay L'Ours and Brusle Lake. The project provided for the excavation and transport of rock above the existing mud line or -2.0 feet NAVD 88 (whichever is lower) for all material on Rock Dike Segment No. 1 and 870 linear feet of Rock Dike Segment No. 2. In addition, the recovered rock was used to build a perpendicular rock dike branching southward off of Rock Dike Segment No. 2 where excavation had terminated. Floation dredging was required along the proposed Perpendicular Rock Dike alignment and potentially in front of Rock Dike Segments No. 1 and No. 2. Warning Signs, Geotextile Fabric, and Settlement Plate installation was required. Surveys were required before and after construction, with drawings to accompany each. HEI performed all construction administration and inspection services. (HEI Project No. 12-123-011-01)

Contract No. 4400018113: "Limited General Engineering Services for CPRA" Task Order No. 3 - Rockefeller Wildlife Refuge Piers and Signage Project (ME-0036) – Construction Administration and Inspection, Cameron Parish, LA – HEI provided Construction Administration and Inspection for the installation of up to 560 feet of new piers at three locations within the Refuge. The piers will be of similar design to piers recently developed in the Refuge. Project improvements also include proposed informational, educational, and location-related signage throughout the Refuge. (HEI Project No. 12-123-01- 03)

Jefferson Lakefront Floodwalls and Structures, Jefferson Parish, LA (COE LPV-03.2A); Corps of Engineers New Orleans District. Project manager for the project engineering on the analysis of alternate alignments and optimization for a floodwall under interstate I-10 in Kenner, LA. The alternates included (i) a new T-Wall offset westwards from the existing I-wall floodwall to the flood side, including the use of a "bulkhead" spanning the gaps between the girders of the interstate above, and (ii) a new T-Wall at the same location as the existing floodwall. (HEI Project No. 11-108-01)

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

Reach B-1 Ridge Restoration and Marsh Creation, West Bank, Plaquemines Parish, LA. HEI performed project planning, preliminary and conceptual design, permitting, geotechnical analysis, and other related services for the project. The project goal was to assist Plaquemines Parish Government (PPG) in implementing the Parish coastal restoration plan with the development of sustainable, resilient vegetated ridge for the reach defined as Reach B-1, Empire to Fort Jackson, adjacent to levee reaches on the West Bank of the Parish. The ridge concept implements the multiple lines of defense approach to hurricane protection, which calls for the full utilization of habitat and mitigation measures in addition to traditional structural protection (levees, floodwalls, etc.). This concept is routinely endorsed in various coastal restoration/ hurricane protection plans such as the State's Comprehensive Master Plan for a Sustainable Coast. The scope was to assist the Parish in bringing the Reach B-1 Vegetated Ridge and Marsh Creation project to construction ready status. The purpose of the Reach B-1 Project is to support the coastal restoration objectives of Plaquemines Parish and the State of Louisiana by re-establishing the historical vegetated ridge along the B-1 reach, generally from the Empire to Fort Jackson areas and re-establishing adjacent marshes in the project area using Mississippi River sediment. The project area was located in Plaquemines Parish, Louisiana on the West Bank of the Mississippi River between Empire, La. and Fort Jackson, La., Reach B-1 is located outside the existing Hurricane Protection Back Levee and extends for approximately 10 miles, paralleling the Back Levee. The Ridge was designed as a wave attenuation berm to minimize the wave height associated with a major tropical storm tidal surge event. The project was located within the eastern portion of the lower Barataria Basin and consists of approximately 43,000 feet of ridge outside the Hurricane Protection Back Levee and comprised approximately 1,000 acres of marsh and water bottom. The project included approximately 370 acres of ridge restoration and over 700 acres of marsh creation. HEI Project No. 11-122-01

Louisiana Department of Natural Resources - Grand Isle Barrier Shoreline Restoration. Project management for studying shoreline erosion in the only inhabited barrier island in Louisiana. The project objectives were to quantify land loss, to identify specific causes of shoreline erosion, to assess various improvement alternatives, to recommend the most feasible improvement alternative and to develop cost opinion for recommended action. The project involved data collection, hydraulic modeling, feasibility study and agency coordination. HEI Project No. 12-020-04

Louisiana Department of Natural Resources – Elmer's Island Shoreline Restoration. Project management for studying shoreline erosion in Elmer's Island near Grand Isle, LA. The project objectives were to quantify land loss, to identify specific causes of shoreline erosion, to assess various improvement alternatives, to recommend the most feasible improvement alternative and to develop cost opinion for recommended action. The project involved data collection, hydraulic modeling, feasibility study and agency coordination. HEI Project No. 12-020-04

Design Services for Upper LA 45 Evacuation Route Tidal Surge Protection – Lafitte, LA. The project consists of the Upper LA 45 Evacuation Route Basin and will tie into the Rosethorne Basin System to the east and the Fischer School Basin to the west. These two basins will be constructed prior to the Upper LA 45 Evacuation Route Basin and the design of the Upper LA 45 Basin will be developed accordingly. The design of the surge protection system will not be to Hurricane Protection Standards but will be designed in accordance with the Louisiana CPRA standards which have been used on similar projects designed for the LAILD. The proposed surge protection sections shall consist of the following types: 1. Areas that have existing structures that are closer than 50 feet to the existing high bank shall be protected by utilizing a concrete-capped steel sheet pile seawall. 2. The remaining

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

frontal protection shall consist of an earthen levee embankment section or where an earthen levee section is not feasible will consist of steel sheet pile wall that may or may not be capped with concrete. The top of the surge protection shall be constructed to an elevation of 7.5 NGVD. HEI Project No. 11-118-02

Louisiana Department of Natural Resources – Elmer's Island Shoreline Breach Restoration. Project management for this emergency project to repair breach in shoreline of Elmer's Island. The project objectives were to mobilize in an emergency manner to assess the extent of shoreline breach damage, design repairs to the breach, assist with bidding and construction management. HEI Project No. 12-020-04

Louisiana Facility Planning and Control – Grand Isle State Park Beach Restoration. Project management for beach restoration, jetty rehabilitation and closing of gaps between existing rock breakwaters on Gulf of Mexico by Grand Isle State Park in Grand Isle, LA. The project involved data collection, assessment of existing conditions and damages and preparation of plans and specifications. HEI Project No. 12-030-02

West Bank and Vicinity Hurricane Protection Project – Lake Cataouatche Pumping Station to Segnette State Park, Phase 2. First Lift, Jefferson Parish, LA (WBV 15a.2)- Under the implementation of work recommended in the “Westwego to Harvey Canal, Louisiana Hurricane Protection Project, Lake Cataouatche Area”, the levees in the Lake Cataouatche Hurricane Protection System were raised to provide additional hurricane protection to meet the 2057 (1%) level of protection also known as the 100-year level of protection. This project included design and construction services for the second lift of a 20,250 linear foot segment of the hurricane protection system from Lake Cataouatche Pumping Station to the Segnette State Park. (HEI Project No. 11-108-04)

Preparation of an Engineers Alternative Report for West Bank and Vicinity, New Orleans, Louisiana, Hurricane Protection Project, Phase 2 Hurricane Protection, Algiers Canal Levee West, Algiers Lock to Hwy 23 (WBV-47.2) The Engineering Alternatives Report (EAR) was required for this project as part of the planning phase and addressed alternatives analysis, construction cost opinion, rights of way and relocation requirements for each alternative considered, preliminary design drawings, possible operation and maintenance issues, design calculations, construction durations and impacts, geotechnical report and design documentation. The following alternatives were evaluated for the project: i) All earthen levee, un-reinforced, with landside shift; ii) All earthen levee with reinforcing geotextile and landside shift; iii) Reinforced concrete T-Wall along landside levee toe. Each alternative included an 18 ft wide railroad swing gate. The 20,748 feet of hurricane protection, regardless of the alternative, required preliminary design for addressing two major drainage pump stations and an LDOTD bridge structure located within the project boundaries in addition to a tying in the new system to the Algiers Lock structure.

HEI Project No. 11-108-03

TEC Professional Services Questionnaire

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Rolland A. Mura, P.E., BCEE
Senior Project Manager



Project Assignment:

Environmental Engineer

Name of Firm with which associated:



Years' experience with this Firm:

22 (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 experience includes 40+ years on public infrastructure projects in planning (NEPA documentation, environmental assessments, Facility Plans and Environmental Information Documents for US EPA/LDEQ funded projects), grant applications (HMGP/FEMA, LADOTD/SWFCP, WARD, US EPA), project engineering, and project management for coastal engineering projects.

Contract No. 4400010492, "Limited General Engineering Services for CPRA", Task Order No. 1 – Little Lake Shoreline Protection & Marsh Creation (BA-0037) - Located in Lafourche Parish, Louisiana, on shoreline protection rock of Segment 1 and Segment 2 of the BA-0037 project, a boat is required to reach the project site with an access route from Bayou Barataria. The rock dike begins at the mouth of Superior Canal and Brusle Lake and follows the lake rim to John Fool Bayou to the east. The maintenance work is between Bay L'Ours and Brusle Lake. The project provided for the excavation and transport of rock above the existing mud line or -2.0 feet NAVD 88 (whichever is lower) for all material on Rock Dike Segment No. 1 and 870 linear feet of Rock Dike Segment No. 2. In addition, the recovered rock was used to build a perpendicular rock dike branching southward off of Rock Dike Segment No. 2 where excavation had terminated. Floation dredging was required along the proposed Perpendicular Rock Dike alignment and potentially in front of Rock Dike Segments No. 1 and No. 2. Warning Signs, Geotextile Fabric, and Settlement Plate installation was required. Surveys were required before and after construction, with drawings to accompany each. HEI performed all construction administration and inspection services. HEI Project No. 12-123-011-01

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:

Rolland A. Mura, P.E., BCEE
Senior Project Manager

Contract No. 4400018113: "Limited General Engineering Services for CPRA" Task Order No. 1, (TE-0045) Terrebonne Bay Shoreline Demonstration Features Removal – Engineering and Design, Lafourche Parish, LA–

HEI provided Engineering Design Services for an 8-year demonstration project to evaluate and document the effectiveness of 3 shoreline/foreshore protection techniques designed to reduce shoreline erosion and promote oyster reef building at the head of a bay or coastal lake. Three reaches (A, B, and E) were selected from 5 potential site as most suitable to demonstrate the shoreline protection techniques. Each reach is approx. 1,500 linear ft. in length. The 3 shoreline treatments include Triton Gabion Mats Filled with Rock, A-Jacks, and Reefblks. (HEI Project No. 12-123-01- 02)

Contract No. 4400010492: "Limited General Engineering Services for CPRA" Task Order No. 3 - Rockefeller Wildlife Refuge Piers and Signage Project (ME-0036) – Design, Cameron Parish, LA – HEI provided Design for the installation of up to 560 feet of new piers at three locations within the Refuge. The piers will be of similar design to piers recently developed in the Refuge. Project improvements also include proposed informational, educational, and location-related signage throughout the Refuge. (HEI Project No. 12-123-01- 03)

Contract No. 440026128, "Limited Engineering Services for CPRA" Task Order No. 1 – Caernarvon Outfall Management (BS-0003A), Plaquemines Parish, LA – This Outfall Management Project includes spoil bank repairs, water control structure removal, water control gate replacements, and warning sign replacements. HEI provided Project Management, Engineering, and Design Services. (HEI Project No. 12-123-03- 01)

CDBG Environmental Review of projects funded by Hurricanes Gustav and Ike Disaster Recovery Grants, Jefferson Parish, LA. Worked closely with Jefferson Department of Community Development and the Louisiana State CDBG to obtain environmental clearance on multiple projects throughout unincorporated Jefferson Parish and its incorporated entities. The total amount of funding was \$27,143,935, which included wastewater treatment plants, sewer pump stations, street repairs, water infrastructure repairs, stormwater detention pond, drainage improvements, Art Gallery and auditorium. HEI met and coordinated with the State's CDBG staff, prepared NEPA documentation (environmental review records or ERRs), conducted solicitation of views (SOV) procedure, conducted public review process, forged close working relationship with environmental reviewers, and successfully obtained the requisite environmental clearances. Levels of NEPA documentation - Exemption, CE, and EA. Of special note was securing environmental clearance for a project that was under LDEQ's Compliance Order deadlines. (HEI Project No. 11-014-79)

St. Charles/Jefferson/Orleans Parishes, LA - Periodic Levee Inspections (Mississippi River Levee). Periodic Levee Inspection for the East Bank of the Mississippi River Levee for the St. Charles/Jefferson/Orleans metro system (field inspections of 27 miles of earthen levees & 14 miles of floodwalls). Tasks include document collection from local levee districts, design criteria review, field inspections using USACE supplied software (LIS tool) and finally the completion of a report detailing the findings to USACE. (HEI Project No. 11-108-09)

Reach B-1 Ridge Restoration and Marsh Creation, West Bank, Plaquemines Parish, LA - The Consultant performed project planning, preliminary and conceptual design, permitting, geotechnical analysis, and other related services for the project. The project goal was to assist Plaquemines Parish Government (PPG) in implementing the Parish coastal restoration plan with the development of sustainable, resilient vegetated ridge for the reach defined as Reach B-1, Empire to Fort Jackson, adjacent to levee reaches on the West Bank of the Parish. The ridge concept implements the multiple lines of defense approach to hurricane protection, which calls for the full utilization of habitat and mitigation

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Rolland A. Mura, P.E., BCEE
Senior Project Manager

measures in addition to traditional structural protection (levees, floodwalls, etc.). This concept is routinely endorsed in various coastal restoration/ hurricane protection plans such as the State's Comprehensive Master Plan for a Sustainable Coast. The scope was to assist the Parish in bringing the Reach B-1 Vegetated Ridge and Marsh Creation project to construction ready status. The purpose of the Reach B-1 Project is to support the coastal restoration objectives of Plaquemines Parish and the State of Louisiana by re-establishing the historical vegetated ridge along the B-1 reach, generally from the Empire to Fort Jackson areas and re-establishing adjacent marshes in the project area using Mississippi River sediment. The project area was located in Plaquemines Parish, Louisiana on the West Bank of the Mississippi River between Empire, La. and Fort Jackson, La., Reach B-1 is located outside the existing Hurricane Protection Back Levee and extends for approximately 10 miles, paralleling the Back Levee. The Ridge was designed as a wave attenuation berm to minimize the wave height associated with a major tropical storm tidal surge event. The project was located within the eastern portion of the lower Barataria Basin and consists of approximately 43,000 feet of ridge outside the Hurricane Protection Back Levee and comprised approximately 1,000 acres of marsh and water bottom. The project included approximately 370 acres of ridge restoration and over 700 acres of marsh creation.

HEI Project No. 11-122-01

Design Services for Upper LA 45 Evacuation Route Tidal Surge Protection – Lafitte, LA. The project consists of the Upper LA 45 Evacuation Route Basin and will tie into the Rosethorne Basin System to the east and the Fischer School Basin to the west. These two basins will be constructed prior to the Upper LA 45 Evacuation Route Basin and the design of the Upper LA 45 Basin will be developed accordingly. The design of the surge protection system will not be to Hurricane Protection Standards but will be designed in accordance with the Louisiana CPRA standards which have been used on similar projects designed for the LAILD. The proposed surge protection sections shall consist of the following types: 1. Areas that have existing structures that are closer than 50 feet to the existing high bank shall be protected by utilizing a concrete-capped steel sheet pile seawall. 2. The remaining frontal protection shall consist of an earthen levee embankment section or where an earthen levee section is not feasible will consist of steel sheet pile wall that may or may not be capped with concrete. The top of the surge protection shall be constructed to an elevation of 7.5 NGVD.

HEI Project No. 11-118-02

Bayou Bienvenue Pump Station Diversions & Terracing Project, Orleans/St. Bernard Parishes, LA. Provided engineering services for creation/protection of 547 acres of vegetated brackish marsh through construction and planting of marsh terraces and smooth cord grass in open shallow water. Includes two water ponds, marsh, and portion of Bayou Bienvenue.

HEI Project No. 11-020-02

Jefferson Parish, Louisiana – Coastal Wetlands Conservation and Restoration Plan. Project engineering on preparation of a comprehensive long-term plan for the conservation and restoration of Jefferson Parish coastal wetlands. The Plan included the design and implementation of capital and non-capital projects, funding assistance, program monitoring, and permitting assistance.

HEI Project No. 11-014-48

Louisiana Department of Natural Resources – Elmer's Island Shoreline Restoration. Project management for studying shoreline erosion in Elmer's Island near Grand Isle, LA. The project objectives were to quantify land loss, to identify specific causes of shoreline erosion, to assess various improvement alternatives, to recommend the most feasible improvement alternative and to develop cost opinion for recommended action. The project involved data collection, hydraulic modeling, feasibility study and agency coordination.

HEI Project No. 12-020-04

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Rolland A. Mura, P.E., BCEE
Senior Project Manager

Louisiana Department of Natural Resources – Elmer's Island Shoreline Breach Restoration. Project management for this emergency project to repair breach in shoreline of Elmer's Island. The project objectives were to mobilize in an emergency manner to assess the extent of shoreline breach damage, design repairs to the breach, assist with bidding and construction management. HEI Project No. 12-020-04

Louisiana Facility Planning and Control – Grand Isle State Park Beach Restoration. Project management for beach restoration, jetty rehabilitation and closing of gaps between existing rock breakwaters on Gulf of Mexico by Grand Isle State Park in Grand Isle, LA. The project involved data collection, assessment of existing conditions and damages and preparation of plans and specifications. HEI Project No. 12-030-02

Louisiana Department of Natural Resources – Davis Pond Trash Screen Replacement. Project engineering for replacement of trash screens at the pumping station for levee intercepted storm water, a part of the Davis Pond Freshwater Diversion Project. The Davis Pond Freshwater Diversion Project is the world's largest freshwater diversion project as of 2002, aimed at reintroducing fresh water, nutrients and sediments to the Barataria estuary with the potential for marsh buildup. The pumping station is an integral part of this project whose trash screens filter the stormwater passing downstream. HEI Project No. 11-020-02

Erosion Control Study and Design, Grand Isle State Park. Project management for beach restoration, jetty rehabilitation and closing of gaps between existing rock breakwaters on Gulf of Mexico by Grand Isle State Park in Grand Isle, LA. The project involved data collection, assessment of existing conditions and damages and preparation of plans and specifications. HEI Project No. 12-020-04

Grand Isle Barrier and Elmer's Island Shoreline Stabilization and Breach Closure Design Study. Project management for studying shoreline erosion in Elmer's Island near Grand Isle, LA. The project objectives were to quantify land loss, to identify specific causes of shoreline erosion, to assess various improvement alternatives, to recommend the most feasible improvement alternative and to develop cost opinion for recommended action. The project involved data collection, hydraulic modeling, feasibility study and agency coordination. Project management for this emergency project to repair breach in shoreline of Elmer's Island. The project objectives were to mobilize in an emergency manner to assess the extent of shoreline breach damage, design repairs to the breach, assist with bidding and construction management. HEI Project No. 12-020-04

West of Atchafalaya Basin and Simmesport Ring Levee System - Periodic Levee Inspections (Atchafalaya Basin). Periodic Levee Inspection for the West Atchafalaya Basin Levee (field inspections of approximately 90 miles of earthen levees including drainage structures). Tasks include document collection from local levee districts, design criteria review, field inspections using USACE supplied software (LIS tool) and finally the completion of a report detailing the findings to USACE. HEI Project No. 11-108-10

TEC Professional Services Questionnaire

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

Danielle B. Connelly, P.E.
Operations Manager

Project Assignment:

Project Engineer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

**Years' experience with this Firm:**

19 (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 ten 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

Contract No. 4400018113: Limited General Engineering Services for CPRA" Task Order No. 1, (TE-0045) Terrebonne Bay Shoreline Demonstration Features Removal – Engineering and Design, Lafourche Parish, LA– HEI provided Engineering Design Services for an 8-year demonstration project to evaluate and document the effectiveness of 3 shoreline/foreshore protection techniques designed to reduce shoreline erosion and promote oyster reef building at the head of a bay or coastal lake. Three reaches (A, B, and E) were selected from 5 potential site as most suitable to demonstrate the shoreline protection techniques. Each reach is approx. 1,500 linear ft. in length. The 3 shoreline treatments include Triton Gabion Mats Filled with Rock, A-Jacks, and Reefblks. (HEI Project No. 12-123-01- 02)

- 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:

Danielle B. Connelly, P.E.
Operations Manager

Contract No. 4400010492, "Limited General Engineering Services for CPRA", Task Order No. 1 – Little Lake Shoreline Protection & Marsh Creation (BA-0037), Purchase Order No. 2000328458. Located in Lafourche Parish, Louisiana, on shoreline protection rock of Segment 1 and Segment 2 of the BA-0037 project, a boat is required to reach the project site with an access route from Bayou Barataria. The rock dike begins at the mouth of Superior Canal and Brusle Lake and follows the lake rim to John Fool Bayou to the east. The maintenance work is between Bay L'Ours and Brusle Lake. The project provided for the excavation and transport of rock above the existing mud line or -2.0 feet NAVD 88 (whichever is lower) for all material on Rock Dike Segment No. 1 and 870 linear feet of Rock Dike Segment No. 2. In addition, the recovered rock was used to build a perpendicular rock dike branching southward off of Rock Dike Segment No. 2 where excavation had terminated. Floatation dredging was required along the proposed Perpendicular Rock Dike alignment and potentially in front of Rock Dike Segments No. 1 and No. 2. Warning Signs, Geotextile Fabric, and Settlement Plate installation was required. Surveys were required before and after construction, with drawings to accompany each. HEI performed all construction administration and inspection services. (HEI Project No. 12-123-011-01)

Contract No. 4400010492: "Limited General Engineering Services for CPRA" Task Order No. 3 - Rockefeller Wildlife Refuge Piers and Signage Project (ME-0036) – Design, Cameron Parish, LA – HEI provided Design for the installation of up to 560 feet of new piers at three locations within the Refuge. The piers will be of similar design to piers recently developed in the Refuge. Project improvements also include proposed informational, educational, and location-related signage throughout the Refuge. (HEI Project No. 12-123-01-03)

Contract No. 440026128, "Limited Engineering Services for CPRA" Task Order No. 1 – Caernarvon Outfall Management (BS-0003A), Plaquemines Parish, LA – This Outfall Management Project includes spoil bank repairs, water control structure removal, water control gate replacements, and warning sign replacements. HEI provided Project Management, Engineering, and Design Services. (HEI Project No. 12-123-03-01)

CDBG Environmental Review of projects funded by Hurricanes Gustav and Ike Disaster Recovery Grants, Jefferson Parish, LA. Worked closely with Jefferson Department of Community Development and the Louisiana State CDBG to obtain environmental clearance on multiple projects throughout unincorporated Jefferson Parish and its incorporated entities. The total amount of funding was \$27,143,935, which included wastewater treatment plants, sewer pump stations, street repairs, water infrastructure repairs, stormwater detention pond, drainage improvements, Art Gallery and auditorium. HEI met and coordinated with the State's CDBG staff, prepared NEPA documentation (environmental review records or ERRs), conducted Solicitation of Views (SOV) procedure, conducted public review process, forged close working relationship with environmental reviewers, and successfully obtained the requisite environmental clearances. Levels of NEPA documentation - Exemption, CE, and EA. Of special note was the securing of environmental clearance for a project that was under LDEQ's Compliance Order deadlines. (HEI Project No. 11-014-79)

West Bank and Vicinity Hurricane Protection Project – Lake Cataouatche Pumping Station to Segnette State Park, Phase 2. First Lift, Jefferson Parish, LA (WBV 15a.2). Under the implementation of work recommended in the "Westwego to Harvey Canal, Louisiana Hurricane Protection Project, Lake Cataouatche Area", the levees in the Lake Cataouatche Hurricane Protection System are being raised to provide additional hurricane protection to meet the 2057 (1%) level of protection also known as the 100-year level of protection. This project includes

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Danielle B. Connelly, P.E.
Operations Manager

design and construction services for the second lift of a 20,250 linear foot segment of the hurricane protection system from Lake Cataouatche Pumping Station to the Segnette State Park. HEI Project No. 11-108-04

West Return Canal Floodwall/I-10 Traffic Study, Jefferson Parish, LA. Project Engineering on traffic study related to new floodwall under I-10 at Jefferson-St. Charles border. As part of the US Army Corps of Engineers' ongoing Greater New Orleans Hurricane Storm Damage Risk Reduction System (GNOHSDRRS), the existing floodwall beneath I-10/I-310 interchange in the Jefferson-St. Charles Parish line area will require elevating. The proposed project of a new and higher floodwall will conflict with a portion of the vehicular road bridge of I-10 above it. Therefore, along with engineering design to incorporate the floodwall into the road structure, a traffic study was required to determine the most practicable alternative to enable this construction to proceed with minimum interference to traffic and maximum utilization of time and funds. The traffic study involved obtaining traffic volume data in and around the subject area, developing various alternatives of detours and lane closures, analysis of the alternatives with regards to impacts, outages, cost, time, etc., recommendation of most practicable alternative, coordination with LADOTD and US Army Corps of Engineers, and report preparation. HEI Project No. 11-108-01

Preparation of an Engineers Alternative Report for West Bank and Vicinity, New Orleans, Louisiana, Hurricane Protection Project, Phase 2 Hurricane Protection, Algiers Canal Levee West, Algiers Lock to Hwy 23 (WBV-47.2). The Engineering Alternatives Report (EAR) was required for this project as part of the planning phase and addressed alternatives analysis, construction cost opinion, rights of way and relocation requirements for each alternative considered, preliminary design drawings, possible operation and maintenance issues, design calculations, construction durations and impacts, geotechnical report and design documentation. The following alternatives were evaluated for the project: i) All earthen levee, un-reinforced, with landside shift; ii) All earthen levee with reinforcing geotextile and landside shift; iii) Reinforced concrete T-Wall along landside levee toe. Each alternative included an 18 ft wide railroad swing gate. The 20,748 feet of hurricane protection, regardless of the alternative, required preliminary design for addressing two major drainage pump stations and an LDOTD bridge structure located within the project boundaries in addition to a tying in the new system to the Algiers Lock structure. HEI Project No. 11-108-03

Design Services for Upper LA 45 Evacuation Route Tidal Surge Protection – Lafitte, LA. The project consists of the Upper LA 45 Evacuation Route Basin and will tie into the Rosethorne Basin System to the east and the Fischer School Basin to the west. These two basins will be constructed prior to the Upper LA 45 Evacuation Route Basin and the design of the Upper LA 45 Basin will be developed accordingly. The design of the surge protection system will not be to Hurricane Protection Standards but will be designed in accordance with the Louisiana CPRA standards which have been used on similar projects designed for the LAILD. The proposed surge protection sections shall consist of the following types: 1. Areas that have existing structures that are closer than 50 feet to the existing high bank shall be protected by utilizing a concrete-capped steel sheet pile seawall. 2. The remaining frontal protection shall consist of an earthen levee embankment section or where an earthen levee section is not feasible will consist of steel sheet pile wall that may or may not be capped with concrete. The top of the surge protection shall be constructed to an elevation of 7.5 NGVD. HEI Project No. 11-118-02

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:**

Project Engineer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

17 (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:

Active Registration: Year First Registered: 1978

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

Other experiences and qualifications relevant to the proposed Project:

Mr. Rao has four decades of civil/hydraulic experience related to coastal and transportation systems, with a strong emphasis on the design and administration of 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 many coastal and transportation projects.

West Bank and Vicinity Hurricane Protection Project – Lake Cataouatche Pumping Station to Segnette State Park, Phase 2. First Lift, Jefferson Parish, LA- Under the implementation of work recommended in the “Westwego to Harvey Canal, Louisiana Hurricane Protection Project, Lake Cataouatche Area”, the levees in the Lake Cataouatche Hurricane Protection System were raised to provide additional hurricane protection to meet the 2057 (1%) level of protection also known as the 100-year level of protection. This project included design and construction services for the second lift of a 20,250 linear foot segment of the hurricane protection system from Lake Cataouatche Pumping Station to the Segnette State Park. (HEI Project No. 11-108-04)

Jefferson Lakefront Floodwalls and Structures, Jefferson Parish, LA (COE LPV-03.2A); Corps of Engineers New Orleans District. Project manager for the project engineering on the analysis of alternate alignments and optimization for a floodwall under interstate I-10 in Kenner, LA. The alternates included (i) a new T-Wall offset westwards from the existing I-wall floodwall to the flood side, including the use of a "bulkhead" spanning the gaps between the girders of the interstate above, and (ii) a new T-Wall at the same location as the existing floodwall.

HEI Project No.11-108-01

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

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

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Louisiana Department of Natural Resources - Grand Isle Barrier Shoreline Restoration. Project management for studying shoreline erosion in the only inhabited barrier island in Louisiana. The project objectives were to quantify land loss, to identify specific causes of shoreline erosion, to assess various improvement alternatives, to recommend the most feasible improvement alternative and to develop cost opinion for recommended action. The project involved data collection, hydraulic modeling, feasibility study and agency coordination. (HEI Project No. 12-020-04)

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:

7 (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: 2008Discipline: Civil State: Louisiana License No.: 34006*Also registered in Mississippi (18695); Arkansas (15078); Florida (62112); Georgia (29635)***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.

- Member of ASCE
- Louisiana Engineering Society

PROJECT EXPERIENCE FROM PREVIOUS FIRM:

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

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

Raul H. Regis, P.E.
Project Engineer

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)

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).

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 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)

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.

I-10 Widening from Highland Road to LA-73, Baton Rouge, LA - Project Manager for this project to widen I-10 from a four lane divided section to a six lane divided section. The widening will require the construction of an additional lane of traffic in both eastbound and westbound directions. The proposed additional lane of traffic will require the bridge over Highland Road to be replaced and the existing bridges over Bayou Manchac,

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

Raul H. Regis, P.E.
Project Engineer

and LA-73 to be widened. The approximate length of the project is 6.7 miles and design fees are approximately \$1.4 m, with tentative completion date of August, 2015. (LADOTD, State Project No. H.009250, 09/2012)

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, 04/2014)

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 control plans for the I-10 mainline and ramps, approximately 4.6 miles. Additionally, this project required the 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)(Construction Completed).

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 the 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).

TEC Professional Services Questionnaire

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

Emmett (Ike) J. Mayer, Jr., 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:

4 (2020)

Education: Degree(s)/Year/Specialization:

B.S. Civil Engineering 1966

M.S. Civil Engineering 1973

Active registration: Year first registered/discipline:Active Registration: Year First Registered: 1971Discipline: Civil State: Louisiana License No.: 12757*Also registered in Nevada (10018)***Other experiences and qualifications relevant to the proposed Project:**

Mr. Mayer has over 50 years of experience in the Design and Planning of Hydraulic Structures, Levees, Twalls, and Drainage Pump Stations. Mr. Mayer has been involved with the engineering management of various infrastructure programs and marine projects.

Mr. Mayer was employed by the U.S. Army Corps of Engineers (USCE), New Orleans District, for over 14 years as a supervisory civil engineer and a structural engineer working on various flood control and navigation projects.

New River Pump-to-River, Ascension, Parish – HEI worked with FTN who modified the existing 2D HEC-RAS hydrologic and hydraulic model of the Bayou Manchac and Marvin Braud drainage basins to incorporate the proposed conveyance channel from Bluff Swamp, a detention basin and pump station to pump into the Miss. River. For initial determination of the conveyance size channel size, shape and slope a new 1D HEC-RAS model was developed and utilized. Construction Cost estimated at \$104 million.

Upper LA 45 Pump Station, Design Services for Upper LA 45 Evacuation Route Tidal Surge Protection, (A/E Project No. 20-2014F), Lafitte Parish, LA – This project involved the Upper LA 45 Evacuation Route Basin and tied into the Rosethorne Basin System to the East and the Fischer School Basin to the West. These two basins were constructed prior to the Upper LA 45 Evacuation Route Basin and the design of the Upper LA 45 Basin is in accordance with a 10-year return design flow. The interior pipe network system was designed as a subsurface

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Emmett (Ike) J. Mayer, Jr., P.E.
Structural Engineer

drainage network. The pipes were buried beneath the ground surface and included drain inlets and manholes. The storm water drainage pumping station was designed generally consisting of vertical drainage pumps, the structural elements for the platform including the foundation, sump intake, walls, platform, pedestrian catwalk, stairs, and trash screen. Also, included design for pumps, electrical, discharge pipe, and diesel generator. HEI Project No. 11-118-03

Ascension Parish Floodplain Management Plan Review– HEI provided support for the Floodplain Management Plan (FMP) and assisted the Ascension Parish Government in review of the existing Hydrologic and Hydraulic (H&H) modeling studies completed in Ascension Parish. Models included Marvin Braud, Bayou Manchac, Henderson Bayou, and Bayou Conway Basins. HEI Project No. 12-031-20

Castille Pass Sediment Delivery project located in St. Mary Parish, Louisiana – Project Engineer on the project included hydrodynamic modeling and the design of improvements to the Atchafalaya River Pass Delta Lobe to improve flow to create emergent marsh areas and enhance accretion in Atchafalaya Bay. Construction documents were prepared to improve the diversion of flow and create approximately 450 acres of emergent marsh. The construction documents provided the deepening of existing channels and locating new distributary channels along with construction of retaining dikes. Over two million cubic yards of material were dredged.

Big Island and Atchafalaya Sediment Delivery project. – Mr. Mayer served as Project Engineer on the project and utilized hydraulic dredging operations to open old sediment-clogged channels, the excavation of new distributary channels to create approximately 1,200 acres of productive wetlands. Numeric hydraulic computer models were used to evaluate various channel alignments. Mr. Mayer prepared plans and specifications for 21,000 feet of channels with over 4,120,000 cubic yards of dredged material accomplished with two 20" hydraulic dredges. Mr. Mayer provided construction administration services for the project.

Goose Point/Point Platte Marsh Creation project – Mr. Mayer served as Construction Manager for the project and created approximately 566 acres of new marshland by dredging from Lake Pontchartrain. A total of 49,557 linear feet of containment dikes were constructed to retain the 3.1 million cubic yards of hydraulically dredged material.

Lake Hermitage Marsh Creation and Shoreline Restoration – Mr. Mayer served as Construction Manager on this project. The project will create 550 acres of new marsh with the dredging of over 3.7 million cubic yards of material. Approximately 36,000 linear feet of containment dikes were constructed. Material is dredged from the Mississippi River over a distance of 27,000 feet.

New Orleans Sewage & Water Board 4 MW Emergency Generator Building – Mayer is the Engineer Manager for this project which includes a hurricane safe building design and all associated civil, structural, mechanical, and ancillary equipment and systems. Mr. Mayer was the Project Manager for the complete upgrade and rehabilitation of all mechanical/electrical equipment and systems in South Florida Water Management District's (SFWMD) manually operated S-5A, 6,000 cfs pump station located in Palm Beach County, Florida. The project includes the redesign of main pump rotating assemblies within existing pipe housings, replacement of existing

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Structural Engineer

chain drive units with new reduction gear drives and modernizing the 50-year-old engines to achieve EPA Tier compliance and SCADA system to be installed to auto-start all equipment from a central control room.

SFWMD project to improve the Pump Station S-127 on Lake Okeechobee – Mr. Mayer was the Engineer Manager for the to design a new intake basin and a manatee friendly raking system along with two-story hurricane resistant command center building and other site improvements.

South Florida Water Management District (SFWMD) – Mr. Mayer also served as Task Engineer Manager for the civil, structural, and mechanical engineering design of 925 cfs vertical pump equipment and two pump stations for STA 3/4 Pump Stations G-370 (3,000 cfs) and G-372 (4,000 cfs). He also was Lead Engineer Manager performing the construction administration of these structures. In addition, he served as Project Manager for the preparation of design- build documents to replace the bearings and shafts and incorporate suction basin rehabilitation work for seven (7) 800cfs drainage pumps at SFWMD Stations S-7 and S-8. He provided engineering support during construction to the district for this project. Mr. Mayer further assisted the SFWMD in its review of Contractor's proposed pump equipment and materials procurement submittals and attended manufacturer witness tests for SFWMD for Pump Stations G-370/G- 372, S-7 and S-8 Intake, S-26B, G-420, and Forward Pumps on Lake Okeechobee.

SFWMD, Major Pumping Station – Mr. Mayer served as the Engineering Manager authoring the promulgation of Engineering Guidelines Manual standard which was completed in 2006. All major pump station designs follow this engineer standard.

Mr. Mayer worked for the international engineering firm of Louis Berger International (Berger Barnard and Thomas, Inc. in Louisiana) for 13 years. During this tenure Mr. Mayer was promoted to be the Chief Operating Officer. Mr. Mayer's experience included the program management of many major projects requiring interfacing with local, state, federal, and foreign governments. While in charge of the New Orleans office, he was Program Manager for over \$100 million of interior drainage improvement in Jefferson and Orleans Parishes including the expansion of the Hero and Planters Pumping Stations, dredging of many miles of interior drainage canals that required land acquisition, relocation of facilities and proper disposal of dredged materials to minimize environmental impacts to the adjacent lands while improving the levees and canal drainage systems. Mr. Mayer was Engineer Manager for the expansion of the Hero Pumping Station from 1,300 cfs to 3,900 cfs and the expansion of the Planters Pumping Station from 1,250 cfs to 2,500 cfs in Jefferson Parish, Louisiana. Both projects consisted of the design of new stations and the expansion of suction and discharge canals to house large low-lift drainage pumps. Two types of pumps were utilized: 1) horizontal axial flow pumps ranging in size from 7 to 14 feet in diameter, and 2) vertical pumps with a capacity of 350 cfs installed in various combinations to meet each station's pumping capacity.

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:**

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

**Project Assignment:**

Traffic Engineer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

10 (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)*

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

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 40 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.

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,

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

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

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 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 the 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 charrettes, 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.

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. 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, 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 Thibodaux, 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

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

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

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:**

Designer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

Years' experience with this Firm:

9 (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 over 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:

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.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

David L. Atkins
Designer

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

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 done with previous firm

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 done with previous 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 done with previous firm

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 done with previous firm

Airport Experience

Mr. Atkins has designed all major aspects of the Natchez-Adams County Airport, including runways, T-hangers, drainage, etc. Work done with previous firm

TEC Professional Services Questionnaire

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

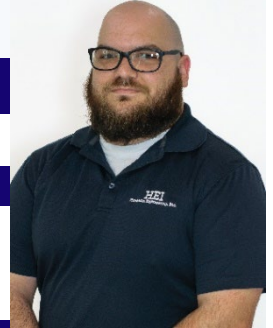
Connor D. Guidry, E.I.
Project Engineer

Project Assignment:

Project Engineer

Name of Firm with which associated:

HEI Hartman Engineering, Inc.
Consulting Engineers

**Years' experience with this Firm:**

7 (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, Levee, and Sewer projects, with many of the projects including safety widening and intersection improvements.

Marvin Braud Pump Station Protection, Levee Elevation and Upgrades, FEMA-4277-DR-LA Project #30, Ascension Parish, LA: The Marvin Braud pump station and levee system are in the eastern portion of Ascension Parish. This control structure is responsible for protecting a large portion of the eastern Ascension Parish population from storm surge and flooding that can be caused by the Amite River. The Parish was approved for federal funding assistance through the Hazard Mitigation Grant Program funding in 2021. These funds will be used to complete phase 1 tasks that include, but are not limited to, 100% complete design plans, revised H&H report and benefit cost assessment, Environmental Assessment, and applicable permitting.

Lower Lafitte – Orange, Maise & 2nd Street Drainage Improvements, Lafitte Area Independent Levee District Drainage (A/E Project No. 20-2014F), Lafitte Parish, LA: Project consists of designing drainage improvements in the Lower Lafitte area. Design was done for a 10-year storm event in accordance with Jefferson Parish Standards, and the drainage ewas tied into the existing drainage system. Construction Documents consisting of Drawings and Specifications along with a Probable Construction Cost were prepared. (HEI Project No. 11-118-04)

Midway Drive Drainage Improvements, Jefferson Hwy. to Charlotte Dr. (DPW No. 2020-005-DR), Jefferson Parish, LA: Providing professional engineering services for Design and Construction Administration. The project consists of drainage improvements along Midway Drive between Jefferson Highway and Charlotte Drive, including

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Connor D. Guidry, E.I.
Project Engineer

installation of 42-inch equivalent arch pipe, catch basins, and minor parallel collection drainage. Other work includes partial roadway removal and replacement, cold plane and overlay, sidewalk construction, and minor water and sewer modifications due to drainage conflicts. (HEI Project No. 11-014-99)

Florence Street Drainage Improvements, Paillet Ave. to Brown Ave. Canal (PWP No. 2020-004-DR), Jefferson Parish, LA.: HEI is providing professional engineering services for Design and Construction Administration. This project includes the installation of approximately 300 ft. of 54" RCP, and 400 ft. of 60" RCP along Florence Street between Paillet Avenue and the Brown Avenue Canal, including catch basins, manholes, outfall, street replacement, mill, and overlay of roadway, relocations of utilities that interfere with the construction, and other incidentals. (HEI Project No. 11-014-98)

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 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 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

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Connor D. Guidry, E.I.
Project Engineer

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

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)

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)

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)

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.

TEC Professional Services Questionnaire

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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:**

3 (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.

Veterans Memorial Blvd. Multi-Use Path And Improvements (Soniata Canal – Downs Blvd.) Jefferson Parish Department Of Public Works Public Works Project No. 2022-011-RB, Jefferson Parish, LA: Funded by the U.S. Department of Housing and Urban Development under the Community Development Block Grant HUD Grant # (B-22-UC-22-000, The project consists of construction of an ADA compliant bicycle and pedestrian multi-use path along Veterans Memorial Blvd. from Downs Blvd. to Soniat Canal and along Downs Blvd. to N. Scenic Dr. Minor Drainage, pavement work, and signal work ancillary to construction of the multi-use path is included as well. HEI Project No. 11-014-102

Lapalco Blvd. Improvements, (Tanglewood to Victory Drive) SPN H.014316, DPW No. 97-025-RB, Jefferson Parish, LA: Ms. Bourgeois assisted in Preliminary and Final construction plans for 0.8 miles of road widening (from 4-6 lanes), drainage improvements, new signalized intersection, wetland, delineation and jurisdictional determination, public outreach and public hearings, regulatory agency coordination, permitting (404 form COE, Coastal Use from LDNR, Water Quality Certification from LDEQ), and wetland mitigation. (HEI Project No. 11-014-53-86)

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Madeline M. Bourgeois, E.I.
Project Engineer

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

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

Jordan E. LeBas, E.I.
Project Engineer

**Project Assignment:**

Project Design

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

1 (2023)

Education: Degree(s)/Year/Specialization:

B.S., 2021, Civil Engineering, Louisiana State University, Baton Rouge, LA

Active registration: Year first registered/discipline:Active Registration: Year First Registered: 2023Discipline: Engineer Intern State: Louisiana License No.: EI35548**Other experiences and qualifications relevant to the proposed Project:**

Mr. LeBas just started with HEI as an engineering intern in 2023. Mr. LeBas has been in training with HEI since being employed at the beginning of 2023 with gaining knowledge in Roadway/Highway projects, Levee projects, and Drainage projects. Recently gaining his E.I. licenses.

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)

Roosevelt Blvd. Roadway Improvements – W. Metairie Ave. to W. Napoleon Ave., S.P.N. H.615120, City of Kenner, LA: Project improvements include the reconstruction of Roosevelt Boulevard from W. Napoleon Avenue to W. Metairie Avenue. Work comprises of the following: pavement removal and replacement, drainage lateral replacement, curb inlet adjustments, drainage trunkline repairs, roadway cross-slope correction, driveway replacement (to R/W), minor sidewalk adjustments (at driveways), and removal of median trees. (HEI Project No. 11-011-88)

Garyville Pump Station and Force Main, St. John the Baptist Parish, LA: Project includes a new transfer pump station and discharge force main from the existing Garyville WWTP site to the Reserve Wastewater Treatment Pond. The new submersible lift station will require an Emergency Pump Out (EPO) manhole and fiberglass valve pit and wet well. The initial capacity analysis based on influent flow information from the flow monitor at the existing Garyville WWTP had determined that the station requires a peak flow capacity of 1.6 MGD or 1,200 gallons per minute to properly service the area during peak wet weather flow times. A new force main is being constructed by directionally drilling a new 12" HDPE FM approximately 26,500 linear feet in length that discharges to the Reserve Wastewater Treatment Pond Headworks. (HEI Project No. 12-023-07)

TEC Professional Services Questionnaire

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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:

27 (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.

Contract No. 4400018113: "Limited General Engineering Services for CPRA" Task Order No. 1, (TE-0045) Terrebonne Bay Shoreline Demonstration Features Removal – Engineering and Design, Lafourche Parish, LA– HEI provided Engineering Design Services for an 8-year demonstration project to evaluate and document the effectiveness of 3 shoreline/foreshore protection techniques designed to reduce shoreline erosion and promote oyster reef building at the head of a bay or coastal lake. Three reaches (A, B, and E) were selected from 5 potential site as most suitable to demonstrate the shoreline protection techniques. Each reach is approx. 1,500 linear ft. in length. The 3 shoreline treatments include Triton Gabion Mats Filled with Rock, A-Jacks, and Reefblks. (HEI Project No. 12-123-01- 02)

Contract No. 4400010492: "Limited General Engineering Services for CPRA" Task Order No. 3 - Rockefeller Wildlife Refuge Piers and Signage Project (ME-0036) – Design, Cameron Parish, LA – HEI provided Design for the installation of up to 560 feet of new piers at three locations within the Refuge. The piers will be of similar design to piers recently developed in the Refuge. Project improvements also include proposed informational, educational, and location-related signage throughout the Refuge. (HEI Project No. 12-123-01- 03)



- 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

Contract No. 4400010492, "Limited General Engineering Services for CPRA", Task Order No. 1 – Little Lake Shoreline Protection & Marsh Creation (BA-0037), Purchase Order No. 2000328458. Located in Lafourche Parish, Louisiana, on shoreline protection rock of Segment 1 and Segment 2 of the BA-0037 project, a boat is required to reach the project site with an access route from Bayou Barataria. The rock dike begins at the mouth of Superior Canal and Brusle Lake and follows the lake rim to John Fool Bayou to the east. The maintenance work is between Bay L'Ours and Brusle Lake. The project provided for the excavation and transport of rock above the existing mud line or -2.0 feet NAVD 88 (whichever is lower) for all material on Rock Dike Segment No. 1 and 870 linear feet of Rock Dike Segment No. 2. In addition, the recovered rock was used to build a perpendicular rock dike branching southward off of Rock Dike Segment No. 2 where excavation had terminated. Floatation dredging was required along the proposed Perpendicular Rock Dike alignment and potentially in front of Rock Dike Segments No. 1 and No. 2. Warning Signs, Geotextile Fabric, and Settlement Plate installation was required. Surveys were required before and after construction, with drawings to accompany each. HEI performed all construction administration and inspection services. (HEI Project No. 12-123-011-01)

Contract No. 440026128, "Limited Engineering Services for CPRA" Task Order No. 1 – Caernarvon Outfall Management (BS-0003A), Plaquemines Parish, LA – This Outfall Management Project includes spoil bank repairs, water control structure removal, water control gate replacements, and warning sign replacements. HEI provided Project Management, Engineering, and Design Services. (HEI Project No. 12-123-03-01)

Jefferson Lakefront Floodwalls and Structures, Jefferson Parish, LA (COE LPV-03.2A); Corps of Engineers New Orleans District. Project manager for the project engineering on the analysis of alternate alignments and optimization for a floodwall under interstate I-10 in Kenner, LA. The alternates included (i) a new T-Wall offset westwards from the existing I-wall floodwall to the flood side, including the use of a "bulkhead" spanning the gaps between the girders of the interstate above, and (ii) a new T-Wall at the same location as the existing floodwall. (HEI Project No. 11-108-01)

West Bank and Vicinity Hurricane Protection Project – Lake Cataouatche Pumping Station to Segnette State Park, Phase 2. First Lift, Jefferson Parish, LA - Under the implementation of work recommended in the "Westwego to Harvey Canal, Louisiana Hurricane Protection Project, Lake Cataouatche Area", the levees in the Lake Cataouatche Hurricane Protection System were raised to provide additional hurricane protection to meet the 2057 (1%) level of protection also known as the 100-year level of protection. This project included design and construction services for the second lift of a 20,250 linear foot segment of the hurricane protection system from Lake Cataouatche Pumping Station to the Segnette State Park. (HEI Project No. 11-108-04)

Bayou Bienvenue Pump Station Diversions & Terracing Project, Orleans/St. Bernard Parishes, LA. Provided all drafting services for creation/protection of 547 acres of vegetated brackish marsh through construction and planting of marsh terraces and smooth cord grass in open shallow water. Includes two water ponds, marsh, and portion of Bayou Bienvenue. (HEI Project No. 11-020-02)

Design Services for Upper LA 45 Evacuation Route Tidal Surge Protection – Lafitte, LA. The project consists of the Upper LA 45 Evacuation Route Basin and will tie into the Rosethorne Basin System to the east and the Fischer School Basin to the west. These two basins will be constructed prior to the Upper LA 45 Evacuation Route

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

Basin and the design of the Upper LA 45 Basin will be developed accordingly. The design of the surge protection system will not be to Hurricane Protection Standards but will be designed in accordance with the Louisiana CPRA standards which have been used on similar projects designed for the LAILD. The proposed surge protection sections shall consist of the following types: 1. Areas that have existing structures that are closer than 50 feet to the existing high bank shall be protected by utilizing a concrete-capped steel sheet pile seawall. 2. The remaining frontal protection shall consist of an earthen levee embankment section or where an earthen levee section is not feasible will consist of steel sheet pile wall that may or may not be capped with concrete. The top of the surge protection shall be constructed to an elevation of 7.5 NGVD. HEI Project No. 11-118-02

Reach B-1 Ridge Restoration and Marsh Creation, West Bank, Plaquemines Parish, LA. The Consultant performed project planning, preliminary and conceptual design, permitting, geotechnical analysis, and other related services for the project. The project goal was to assist Plaquemines Parish Government (PPG) in implementing the Parish coastal restoration plan with the development of sustainable, resilient vegetated ridge for the reach defined as Reach B-1, Empire to Fort Jackson, adjacent to levee reaches on the West Bank of the Parish. The ridge concept implements the multiple lines of defense approach to hurricane protection, which calls for the full utilization of habitat and mitigation measures in addition to traditional structural protection (levees, floodwalls, etc.). This concept is routinely endorsed in various coastal restoration/ hurricane protection plans such as the State's Comprehensive Master Plan for a Sustainable Coast. The scope was to assist the Parish in bringing the Reach B-1 Vegetated Ridge and Marsh Creation project to construction ready status. The purpose of the Reach B-1 Project is to support the coastal restoration objectives of Plaquemines Parish and the State of Louisiana by re-establishing the historical vegetated ridge along the B-1 reach, generally from the Empire to Fort Jackson areas and re-establishing adjacent marshes in the project area using Mississippi River sediment. The project area was located in Plaquemines Parish, Louisiana on the West Bank of the Mississippi River between Empire, La. and Fort Jackson, La., Reach B-1 is located outside the existing Hurricane Protection Back Levee and extends for approximately 10 miles, paralleling the Back Levee. The Ridge was designed as a wave attenuation berm to minimize the wave height associated with a major tropical storm tidal surge event. The project was located within the eastern portion of the lower Barataria Basin and consists of approximately 43,000 feet of ridge outside the Hurricane Protection Back Levee and comprised approximately 1,000 acres of marsh and water bottom. The project included approximately 370 acres of ridge restoration and over 700 acres of marsh creation. (HEI Project No. 11-122-01)

Louisiana Department of Natural Resources - Grand Isle Barrier Shoreline Restoration. Project management for studying shoreline erosion in the only inhabited barrier island in Louisiana. The project objectives were to quantify land loss, to identify specific causes of shoreline erosion, to assess various improvement alternatives, to recommend the most feasible improvement alternative and to develop cost opinion for recommended action. The project involved data collection, hydraulic modeling, feasibility study and agency coordination. HEI Project No. 12-020-04

Louisiana Department of Natural Resources – Elmer's Island Shoreline Restoration. Project management for studying shoreline erosion in Elmer's Island near Grand Isle, LA. The project objectives were to quantify land loss, to identify specific causes of shoreline erosion, to assess various improvement alternatives, to recommend the most feasible improvement alternative and to develop cost opinion for recommended action. The project involved data collection, hydraulic modeling, feasibility study and agency coordination. HEI Project No. 12-020-04

- 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

Louisiana Department of Natural Resources – Elmer's Island Shoreline Breach Restoration. Project management for this emergency project to repair breach in shoreline of Elmer's Island. The project objectives were to mobilize in an emergency manner to assess the extent of shoreline breach damage, design repairs to the breach, assist with bidding and construction management. HEI Project No. 12-020-04





Erosion Control Grand Isle State Park, SP 06-264-02B-03; Jefferson Parish, LA. Provided all drafting services for project involving modeling of the existing breakwaters in front of the beach along the State Park at Grand Isle to determine the optimum layout to protect the beach and placement of sand to restore beach lost to erosion. HEI Project No. 12-030-02

Soniat Canal Improvements, Jefferson Parish, LA. Federally funded project under the Southeast Louisiana Urban Flood Control (SELA) program that involves improving drainage along a major north-south running drainage canal via hydraulic studies, DDRs, design, geotechnical investigations, preparation of plans and specifications, construction management and resident inspection. This project will increase the capacity of Soniat Canal from Canal No. 3 to West Metairie Avenue in Metairie, LA from 3,000 cfs to 5,200 cfs. This involved designs for U-shaped concrete flumes, utility relocations, and sheet piling transitions in seven separate bid packages: 1. Canal No. 3 to Veterans Memorial Boulevard – 750 ft in length, lined with concrete flume; 2. Veterans Memorial Boulevard vehicular bridge replacement – 300 ft in length with three box culverts (each 18'H x 36'W); 3. Veterans Memorial Boulevard to West Napoleon Boulevard – 3,500 ft total length, lined with concrete flume; 4. West Napoleon Avenue vehicular bridge replacement – 400 ft in length; 5. West Napoleon Avenue to Lynette Drive – 1,100 ft long. ; 6. Lynette Drive to Lester Street – approx. 2,900 ft long; 7. Lester Street to West Metairie Avenue – approx. 450 ft long. The total construction cost is estimated to be \$155 M. HEI Project No. 11-014-55

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. 01

| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
|---|---|--------------------------------------|
| <p>Contract No. 4400010492 "Limited General Engineering Services for CPRA" Task Order No. 1 – Little Lake Shoreline Protection & Marsh Creation (BA-0037)</p> <p>Lafourche Parish, LA <small>(HEI Project No. 12-123-01-01)</small></p> <p><i>Owner:</i> CPRA 1440 Tiger Drive, Suite B Thibodaux, LA 70301</p> <p><i>Project Manager :</i> Brian Babin 985-447-0956 Brian.Babin@LA.GOV</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. <small>(Project Manager)</small> • Rolland A. Mura, P.E. <small>(Lead Environmental Engineer)</small> • Danielle B. Connelly, P.E. <small>(Project Engineer)</small> • Stephen F. Urquhart (CADD)  | <p>HEI performed all construction administration and inspection services.</p> <p>Located in Lafourche Parish, LA, on shoreline protection rock of Segment 1 and Segment 2 of the BA-0037 project, a boat was required to reach the project site with an access route from Bayou Barataria. The rock dike begins at the mouth of Superior Canal and Brusle Lake and follows the lake rim to John Fool Bayou to the east. The maintenance work is between Bay L'Ours and Brusle Lake. The project provided for the excavation and transport of rock above the existing mud line or -2.0 feet NAVD 88 (whichever is lower) for all material on Rock Dike Segment No. 1 and 870 linear feet of Rock Dike Segment No. 2. In addition, the recovered rock was used to build a perpendicular rock dike branching southward off of Rock Dike Segment No. 2 where excavation had terminated. Floation dredging was required along the proposed Perpendicular Rock Dike alignment and potentially in front of Rock Dike Segments No. 1 and No. 2. Warning Signs, Geotextile Fabric, and Settlement Plate installation was required. Surveys were required before and after construction, with drawings to accompany each.</p>  <div style="display: flex; justify-content: flex-end; align-items: center;">   </div> | |
| Completion Date (actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was responsible: |
| Start Date: 2017 End Date: 2018 | \$6,723,426.95 | \$87,510 |

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. 02

Project Name, Location and Owner's contact information:

Nature of Firm's Responsibility:

Contract No. 4400010492
"Limited General Engineering Services for CPRA"
Task 1, (TE-0045) Terrebonne Bay Shoreline Demonstration

Lafourche Parish, LA
 (HEI Project No. 12-123-01-02)

Owner:
CPRA
 The Water Campus
 150 Terrace Avenue
 Baton Rouge, LA 70802

Project Manager:
Brian Babin
 985-447-0956
 Brian.Babin@LA.GOV

% of work performed in LA: 100%

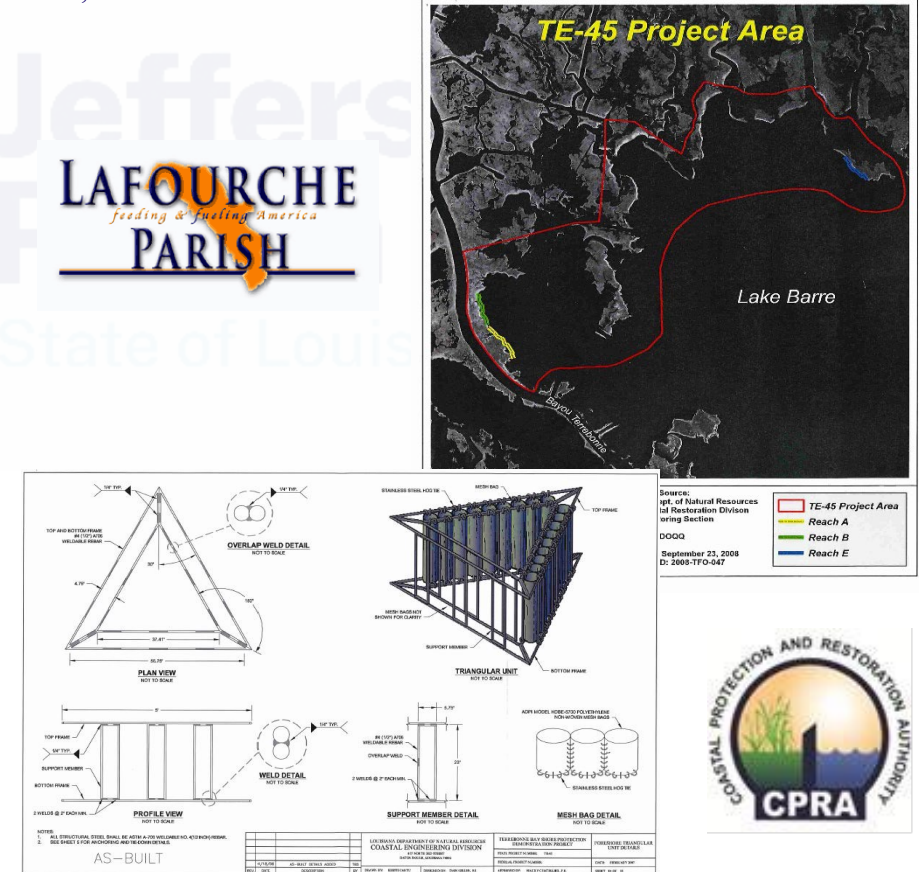
Firm's Responsibility: Prime

Key Staff on Project:

- **Jared B. Monceaux, P.E.**
(Project Manager)
- **Rolland A. Mura, P.E.**
(Lead Environmental Engineer)
- **Danielle B. Connelly, P.E.**
(Project Engineer)
- **Stephen F. Urquhart (CADD)**

HEI performed all construction administration and inspection services.

This is an 8-year demonstration project to evaluate and document the effectiveness of 3 shoreline/foreshore protection techniques designed to reduce shoreline erosion and promote oyster reef building at the head of a bay or coastal lake. Three reaches (A, B, and E) were selected from 5 potential site as most suitable to demonstrate the shoreline protection techniques. Each reach is approx. 1,500 linear ft. in length. The 3 shoreline treatments include Triton Gabion Mats Filled with Rock, A-Jacks, and Reefblks.



Completion Date (actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was responsible:

Start Date:
2017

End Date:
2019

\$1,652,301

\$57,420

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. 03

| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
|--|--|---|
| <p>Contract No. 4400010492 "Limited General Engineering Services for CPRA" Rockefeller Wildlife Refuge Piers and Signage Project (ME-0036)</p> <p>Cameron & Vermilion Parishes, LA (HEI Project No. 12-123-01-03)</p> <p>Owner: CPRA 1440 Tiger Drive, Suite B Baton Rouge, LA 70802</p> <p>Project Manager: Brian Babin 985-447-0956 Brian.Babin@LA.GOV</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) Rolland A. Mura, P.E. (Lead Environmental Engineer) Danielle B. Connelly, P.E. (Project Engineer) Stephen F. Urquhart (CADD) | <p>HEI performed all Construction Administration, Oversight and Inspection Services.</p> <p>The Rockefeller Wildlife Refuge Piers and Signage Project includes installation of up to 560 feet of new piers at three locations within the Refuge. The piers will be of similar design to piers recently developed in the Refuge. Project improvements also include proposed informational, educational, and location-related signage throughout the Refuge.</p> <div style="display: flex; justify-content: space-around; align-items: center;">    </div>  <div style="display: flex; justify-content: space-between; align-items: center;"> <div data-bbox="597 1558 847 1627"> <p>GEOTECHNICAL ENGINEERING SERVICES PROPOSED 107-ACRE MARSH CREATION ROCKEFELLER REFUGE WMA CAMERON PARISH, LOUISIANA</p> </div> <div data-bbox="847 1558 1291 1627"> <p>SITE PLAN PSI PROJECT NO.: 0254403</p> </div> <div data-bbox="1291 1558 1546 1627"> <p>psi Information To Build On Engineering • Consulting • Testing</p> </div> </div> | |
| Completion Date (actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was responsible: |
| Start Date: 2017 | End Date: 2019 | <div style="display: flex; justify-content: space-around;"> <div>\$600,000</div> <div>\$54,260</div> </div> |

TEC Professional Services Questionnaire

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

PROJECT NO. 04

| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | | | | | | | |
|---|--|-------------------------------|---|--|------------------------|---|------------------|-----------------|
| <p>Contract No. 4400026128 "Limited General Engineering Services for CPRA" Task Order 1 - Caernarvon Outfall Management Project Engineering Services for Maintenance Work at Sites 13, 25, 26, 52, 56, & 60 (BS-0003A)</p> <p>Plaquemines Parish, LA <small>(HEI Project No. 12-123-03-01)</small></p> <p>Owner: CPRA 2045 Lakeshore Drive CERM Bldg. Suite 309 New Orleans, LA 70122</p> <p>Project Manager: David Chambers 504-280-4069 David.Chambers@LA.GOV</p> | <p>HEI provided Project Management, Engineering, and Design Services. This Outfall Management Project includes spoil bank repairs, water control structure removal, water control gate replacements, and warning sign replacements.</p> <p>The specific work sites include Site 13 (Spoil Bank Repair), Site 25 (40 Arpent Canal Structure Removal), Site 26 (Water Control Gate Replacement), Site 52 (Gate Stem Replacement), Site 56 (Marker Piling Removal & Warning Sign Replacement), and Site 60 (Gate Stem Replacements) as shown on the attached figure.</p> <ul style="list-style-type: none"> • Site 13: Repair of an approximately 30-foot breach of spoil bank on the upstream side and a approximately 10-ft area of low spoil bank on the downstream side along Bayou Mandeville. • Site 25: Removal of existing dual 48" corrugated pipe water control structure, timber platform, and associated pilings; existing rip rap and bedding to remain in place. • Site 26: Replace missing deck boards and secure and/or replace loose deck hardware; remove and replace damaged 48-inch water control gate; repair/replace 48- inch culvert section at water control gate tie-in location. • Site 52: Replace one gate stem. • Site 56: Remove leaning obstruction marker piling and replace the sign on the obstruction marker to remain in place. • Site 60: Replace two gate stems. | | | | | | | |
| <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) • Rolland A. Mura, P.E. (Lead Environmental Engineer) • Danielle B. Connelly, P.E. (Project Engineer) • Jordan E. LeBas, E.I. (Project Engineer) • Stephen F. Urquhart (CADD) |   <p>Photo 6: Damaged gate & decking at Site 26</p> <p>Photo 2: Bent gate stems at Site 60.</p> | | | | | | | |
| <p>Completion Date (actual or estimated):</p> <table border="1"> <tr> <td>Start Date: 2023</td> <td>End Date: 2025 est.</td> </tr> </table> | Start Date: 2023 | End Date: 2025 est. | <p>Estimated Cost:</p> <table border="1"> <tr> <td>Entire Project:</td> <td>Work for which Firm was responsible:</td> </tr> <tr> <td>\$258,500</td> <td>\$50,000</td> </tr> </table> | | Entire Project: | Work for which Firm was responsible: | \$258,500 | \$50,000 |
| Start Date: 2023 | End Date: 2025 est. | | | | | | | |
| Entire Project: | Work for which Firm was responsible: | | | | | | | |
| \$258,500 | \$50,000 | | | | | | | |

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. 05

| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | | | | | |
|---|--|--|-----------------|--------------------------------------|--|------------------------|
| <p>Design Services for Upper LA 45 Evacuation Route Tidal Surge Protection</p> <p>Lafitte, LA (HEI Project No. 11-118-02)</p> <p><i>Owner:</i> Lafitte Levee District 2645 Jean Lafitte Blvd. Lafitte, LA 70067</p> <p><i>Project Manager:</i> Lowell Pitre, P.E. 504-887-7045 ljp@aimsgroupinc.com</p> <p>% of work performed in LA: 100%</p> <p>Firm's Responsibility: Sub-Consultant</p> <p>Key Staff on Project:</p> <ul style="list-style-type: none"> Jared B. Monceaux, P.E. (Project Manager) Rolland A. Mura, P.E. (Lead Environmental Engineer) Robert R. Canfield, P.E. (Project Engineer) Danielle B. Connelly, P.E. (Project Engineer) Stephen F. Urquhart (CADD) | <p>The project consists of the Upper LA 45 Evacuation Route Basin and will tie into the Rosethorne Basin System to the east and the Fischer School Basin to the west. These two basins will be constructed prior to the Upper LA 45 Evacuation Route Basin and the design of the Upper LA 45 Basin will be developed accordingly. The design of the surge protection system will not be to Hurricane Protection Standards but will be designed in accordance with the Louisiana CPRA standards which have been used on similar projects designed for the LAILD. The proposed surge protection sections shall consist of the following types: 1. Areas that have existing structures that are closer than 50 feet to the existing high bank shall be protected by utilizing a concrete-capped steel sheet pile seawall. 2. The remaining frontal protection shall consist of an earthen levee embankment section or where an earthen levee section is not feasible will consist of steel sheet pile wall that may or may not be capped with concrete. The top of the surge protection shall be constructed to an elevation of 7.5 NGVD.</p> <div data-bbox="613 871 1185 1606"> </div> <div data-bbox="1230 1375 1490 1627"> </div> | | | | | |
| <p>Completion Date (actual or estimated):</p> <p>Start Date: 2017 End Date: 2019</p> | <p>Estimated Cost:</p> <table border="1"> <thead> <tr> <th data-bbox="602 1675 1065 1749">Entire Project:</th> <th data-bbox="1065 1675 1523 1749">Work for which Firm was responsible:</th> </tr> </thead> <tbody> <tr> <td data-bbox="602 1749 1065 1841"> \$922,000 (Engineering) \$20,000,000 (Construction) </td> <td data-bbox="1065 1749 1523 1841"> \$308,900 (Fee) </td> </tr> </tbody> </table> | | Entire Project: | Work for which Firm was responsible: | \$922,000 (Engineering) \$20,000,000 (Construction) | \$308,900 (Fee) |
| Entire Project: | Work for which Firm was responsible: | | | | | |
| \$922,000 (Engineering) \$20,000,000 (Construction) | \$308,900 (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. 06 | | | |
|---|--------------------------|---|---|
| Project Name, Location and Owner's contact information: | | Nature of Firm's Responsibility: | |
| <p>Vegetative Ridge and Marsh Creation Project, Reach B-1, Empire to Fort Jackson, Project No. 13-11-03</p> <p>Plaquemines Parish, LA (HEI Project No. 11-122-01)</p> <p><i>Owner :</i> Plaquemines Parish Government 8056 Hwy 23, Suite 200 Belle Chasse, LA 70037</p> <p><i>Project Manager:</i> Vince Frelich, Director 504-297-5629 vfrelich@ppgov.net</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) Rolland A. Mura, P.E. (Lead Environmental Engineer) Stephen F. Urquhart (CADD)  | | <p>HEI performed project planning, preliminary and conceptual design, permitting, geotechnical analysis, and other related services for the project.</p> <p>The project goal was to assist Plaquemines Parish Government (PPG) in implementing the Parish coastal restoration plan with the development of sustainable, resilient vegetated ridge for the reach defined as Reach B-1, Empire to Fort Jackson, adjacent to levee reaches on the West Bank of the Parish. The ridge concept implements the multiple lines of defense approach to hurricane protection, which calls for the full utilization of habitat and mitigation measures in addition to traditional structural protection (levees, floodwalls, etc.). This concept is routinely endorsed in various coastal restoration/ hurricane protection plans such as the State's Comprehensive Master Plan for a Sustainable Coast. The scope was to assist the Parish in bringing the Reach B-1 Vegetated Ridge and Marsh Creation project to construction ready status.</p> <p>The purpose of the Reach B-1 Project is to support the coastal restoration objectives of Plaquemines Parish and the State of Louisiana by re-establishing the historical vegetated ridge along the B-1 reach, generally from the Empire to Fort Jackson areas and re-establishing adjacent marshes in the project area using Mississippi River sediment.</p>  <p>The project area was located in Plaquemines Parish, Louisiana on the West Bank of the Mississippi River between Empire, La. and Fort Jackson, La., Reach B-1 is located outside the existing Hurricane Protection Back Levee and extends for approximately 10 miles, paralleling the Back Levee. The Ridge was designed as a wave attenuation berm to minimize the wave height associated with a major tropical storm tidal surge event. The project was located within the eastern portion of the lower Barataria Basin and consists of approximately 43,000 feet of ridge outside the Hurricane Protection Back Levee and comprised approximately 1,000 acres of marsh and water bottom. The project included approximately 370 acres of ridge restoration and over 700 acres of marsh creation. Firm's Role: Preliminary Conceptual Engineering & Feasibility Study.</p> | |
| Completion Date (actual or estimated): | | Estimated Cost: | |
| | | Entire Project: | Work for which Firm was responsible: |
| Start Date: 2013 | End Date: 2015 | \$101,480,498 | \$250,000 |

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. 07

| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | | |
|--|---|--|-------------------------|
| <p>Project No. 06-264-02B-05, Part 01</p> <p>Erosion Control Study and Design Grand Isle State Park</p> <p>Grand Isle, LA (HEI Project No. 12-030-02-10/20)</p> <p><i>Owner:</i> Office of Facility Planning and Control 1201 Third St., Suite 7-160 Baton Rouge, LA 70804</p> <p><i>Project Manager:</i> John Hodnett 225-219-4404 John.Hodnett@la.gov</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) • Rolland A. Mura, P.E. (Lead Environmental Engineer) • Stephen F. Urquhart (CAD)  |  <p>The Grand Isle State Park experienced extensive erosion in recent years and needs reclamation of lost beach front and erosion control measures installed, including rock structures. The project site is located on the east end of Grand Isle along the shoreline of the Gulf of Mexico by Grand Isle State Park in Grand Isle, Louisiana. The project involved evaluation of existing breakwater performance and development of recommended modifications. The HEI team proposed a technical report on the analysis of the existing 13 stone breakwater offshore from the state park, including proposed modifications to provide greater stabilization to the park shoreline. Conceptual recommendations were developed to further modify the breakwaters to increase longevity of the proposed beach nourishment. The project also included preparation of engineering design plans and specifications, cost estimates for the east-end jetty rehabilitation, shoreline beach restoration, and closing of gaps between existing rock breakwaters approximately 900 feet offshore from the park shoreline on Gulf of Mexico by Grand Isle State Park in Grand Isle, Louisiana.</p> <p>The project involved the following:</p> <ul style="list-style-type: none"> • data collection • review and comparison of historical aerial photographs • hydrographic surveying and additional post-Katrina hydro surveying • assessment of existing conditions and damages • modifying the project scope to utilize and incorporate the modeling results, recommendations, and shoreline project priorities established from the LDNR Grand Isle Shoreline Stabilization Study into the project scope and design • modifying scope of project to meet State's allowable construction budget • preparation of plans, specifications and bid documents.  | | |
| <p>Completion Date (actual or estimated):</p> | <p>Estimated Cost:</p> | | |
| | <p>Entire Project:</p> | <p>Work for which Firm was responsible:</p> | |
| <p>Start Date: 2003</p> | <p>End Date: 2010</p> | <p>\$2,278,000 (Construction)</p> | <p>\$287,000</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. 08 | | | |
|---|--|---|--|
| Project Name, Location and Owner's contact information: | | Nature of Firm's Responsibility: | |
| <p>Project No. W912P8-D-0002, Task Order No. 4, WBV 15a.2 West Bank and Vicinity Hurricane Protection Project – Lake Cataouatche Pumping Station to Segnette State Park, Phase 2</p> <p>Jefferson Parish, LA <small>(HEI Project No. 11-108-04)</small></p> <p><i>Owner:</i> USACE – New Orleans District P.O. Box 60267 New Orleans, LA 70160</p> <p><i>Project Manager:</i> Tyler Townes 504-862-1242 Tyler.D.Townes@usace.army.mil</p> <p>% of work performed in LA: 100%</p> <p>Firm's Responsibility: Joint-Venture</p> <p>Key Staff on Project:</p> <ul style="list-style-type: none"> • Jared B. Monceaux, P.E. (Project Manager) • Rolland A. Mura, P.E. (Lead Environmental Engineer) • Danielle B. Connelly, P.E. (Project Engineer) • Sundararaja C. Rao, P.E. (Roadway Engineer) • Stephen F. Urquhart (CADD) <p></p> | | <p>Under the implementation of work recommended in the “Westwego to Harvey Canal, Louisiana Hurricane Protection Project, Lake Cataouatche Area”, the levees in the Lake Cataouatche Hurricane Protection System are being raised to provide additional hurricane protection to meet the 2057 (1%) level of protection also known as the 100-year level of protection.</p> <p>This project includes design and construction services for the second lift of a 20,250 linear foot segment of the hurricane protection system from Lake Cataouatche Pumping Station to the Segnette State Park.</p> <p><u>Size:</u> 20,250 linear feet of reinforced and un-reinforced earthen levee in Jefferson Parish, Louisiana</p> <p><u>Firm's Role:</u> Design Quality Control Plan (DQCP), Safety Plan, design, construction documents (Plans and Specifications), cost estimating, engineering during advertisement, engineering during construction and ROW drawings.</p> <p></p> <p> US Army Corps of Engineers®</p> | |
| <p>Completion Date (actual or estimated):</p> <p>Start Date: April 2008 End Date: November 2011</p> | | Estimated Cost: | |
| | | <p>Entire Project:</p> <p>\$63,600,000 (Construction)</p> | <p>Work for which Firm was responsible:</p> <p>\$445,000 (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.


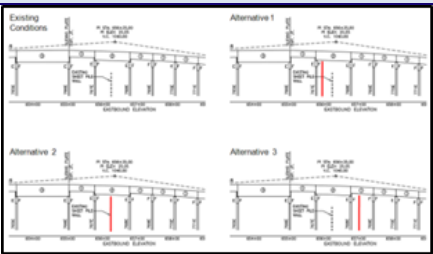
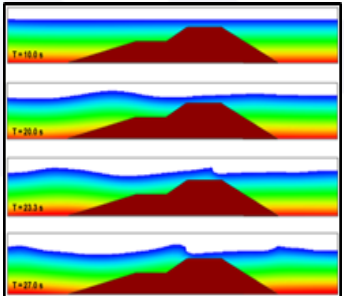
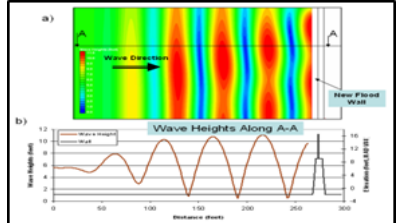
PROJECT NO. 09

| Project Name, Location and Owner's contact information: | | Nature of Firm's Responsibility: | |
|---|--|--|--|
| <p>DNR No. 2512-05-05, OCR No. 435-500581 Grand Isle Barrier and Elmer's Island Shoreline Stabilization and Breach Closure Design</p> <p>Grand Isle, LA (HEI Project No. 12-020-04-00/80)</p> <p><i>Owner:</i> LDNR – Coastal Restoration Division 617 Third Street, 10th Floor Baton Rouge, LA 70801</p> <p><i>Project Manager :</i> Maury O. Chatellier, P.E. 225-342-5944 mauryc@dnr.state.la.us</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) Rolland A. Mura, P.E. (Lead Environmental Engineer) Stephen F. Urquhart (CADD)  | | <p>Grand Isle Barrier Shoreline Stabilization Study HEI developed a comprehensive, long-term engineering solution for erosion and storm damage reduction to the Gulf of Mexico shoreline of Grand Isle. The developed solution is effective, economical, and environmentally friendly and will address the unique and complex physical processes that control and influence shoreline erosion at Grand Isle. Relevant components of the project include project management and preliminary design of selected component alternatives. The team also evaluated construction aspects of the selected components and developed preliminary cost estimates for each.</p>  <p>Elmer's Island Shoreline Study HEI developed a similar comprehensive, long-term solution for erosion and storm damage reduction to the gulf shoreline of Elmer's Island, west of Grand Isle, Louisiana. Addressing the complex physical processes influencing the erosion of Elmer's Island shoreline in an effective, economical, and environmentally acceptable manner is essential. The team is responsible for the evaluation of construction aspects of the selected components and preparation of preliminary cost estimates. This study was temporarily postponed due to Hurricane Katrina.</p>  <p>Elmer's Island Emergency Stabilization Project, Shoreline Breach Closure - The impact of Hurricane Katrina on Elmer's Island was relatively severe. Immediately after the hurricane, the Louisiana Department of Natural Resources (LDNR) requested that HEI provide an emergency evaluation and design repairs for the shoreline breach in Elmer's Island. Recent hurricanes exacerbated island erosion and created a threat to the island communities, as well as the environment. The selected solution was to close the breach with a sand dike that is shaped and constructed in a manner to cutoff tidal flow and allow natural sedimentation processes to heal the breach across the opening. The project objectives were to mobilize in an emergency manner to assess the extent of shoreline breach damage, to prepare design plans and specifications, to repair the island breach, to assist with bidding, and to provide construction management and inspection. The team's responsibilities included project management, project oversight, and preliminary engineering design of access roadway from landside of shoreline breach to the project site and to the breach.</p>  | |
| <p>Completion Date (actual or estimated):</p> <p>Start Date: 2005 End Date: 2007</p> | | Estimated Cost | |
| | | <p>Entire Project:</p> <p>\$25,659,456</p> | <p>Work for which Firm was responsible:</p> <p>\$1,268,265</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.

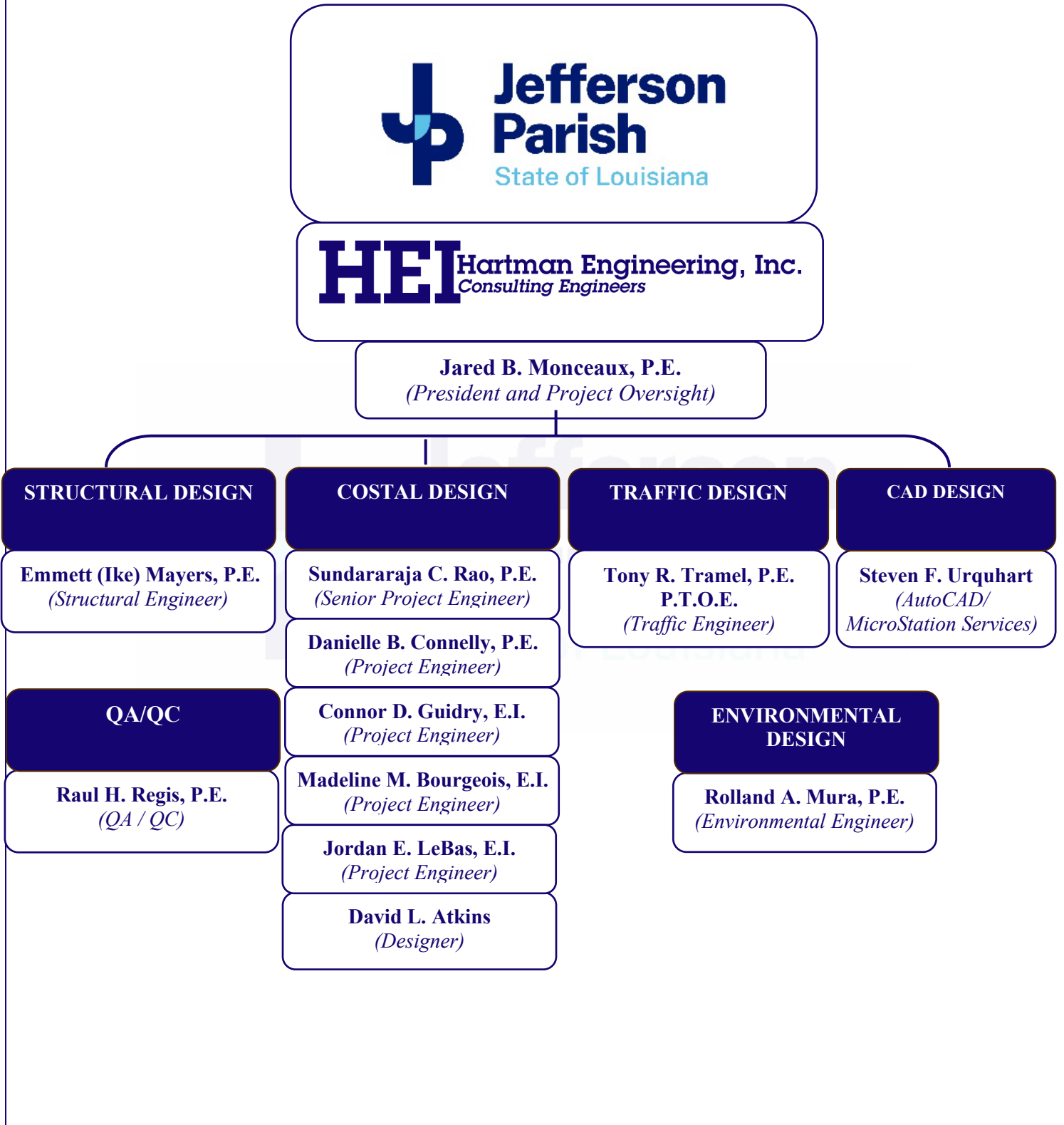
PROJECT NO. 10

| Project Name, Location and Owner's contact information: | | Nature of Firm's Responsibility: | |
|--|-------------------------------|---|---|
| <p>Project No. W912P8-08-D-002, Task Order No. 1 Jefferson Lakefront Floodwalls and Structures, Phase II</p> <p>Jefferson Parish, LA (HEI Project No. 11-108-01-10)</p> <p><i>Owner:</i> USACE – New Orleans District P.O. Box 60267 New Orleans, LA 70160</p> <p><i>Project Manager:</i> Eileen M. Darby Contracting Officer 504-862-2201</p> <p>% of work performed in LA: 100%</p> <p>Firm's Responsibility: Joint-Venture</p> <p>Key Staff on Project:</p> <ul style="list-style-type: none"> Jared B. Monceaux, P.E. (Project Manager) Rolland A. Mura, P.E. (Environmental Engineer) Danielle B. Connelly, P.E. (Project Engineer) Stephen F. Urquhart (CADD) <p></p> | | <p><u>Preparation of Plans and Specifications (P&S)</u> for various structures (pumping station, flood walls, swing gates and pedestrian gates) incorporating the latest Hurricane and Storm Damage Reduction System Design Guideline (HSDRSDG). The design is intended to bring the hurricane protection to the Phase II 100-year level. This effort is part of the larger New Orleans area hurricane protection effort undertaken by the Corps of Engineers subsequent to damages of Hurricane Katrina of 2005. The project is part of Lake Pontchartrain and Vicinity Hurricane Protection Project. Specifically, HEI was responsible for the portion of this reach termed LPV 0.3 – Kenner West Return Floodwall. As joint venture partner of Hurricane Protection Alliance (HPA), HEI was responsible for the following: (i) Coordination with LDOTD on all aspects of floodwall work required under I-10, (ii) Civil and structural design for the I-10 work, (iii) Obtain required permits from LDOTD, (iv) Prepare plans and specifications.</p> <p><u>Traffic study related to new floodwall under I-10 at Jefferson-St. Charles border.</u></p> <p>The proposed project of a new and higher floodwall will conflict with a portion of the vehicular road bridge of I-10 above it. Therefore, a traffic study was required to determine the most practicable alternative to enable this construction to proceed with minimum interference to traffic and maximum utilization of time and funds. The traffic study involved obtaining traffic volume data in and around the subject area, developing various alternatives of detours and lane closures, analysis of the alternatives with regards to impacts, outages, cost, time, etc., recommendation of most practicable alternative.</p> <p><u>Alignment Optimization.</u> Analysis of alternate alignments and optimization for a floodwall under interstate I-10 in Kenner, LA. The alternates included (i) a new T-Wall offset westwards from the existing I-wall floodwall to the flood side, including the use of a "bulkhead" spanning the gaps between the girders of the interstate above, and (ii) a new T-Wall at the same location as the existing floodwall. Parameters to be evaluated in this study included: (i) impacts of any additional loading on the existing I-10 bridge span above the floodwall, (ii) uplift and need for bridge span tie downs, (iii) wave loading on the new wall and need for breakwater, (iv) traffic study, (v) pile tests, (vi) right of way drawings, and (vii) coordination with other agencies.</p> <p><u>Firm's Role:</u> Civil and structural design, LDOTD permitting, quantity take off; traffic study; Alignment Optimization-numerical modeling, (HWAVER, MONGOOSE) and computations of hurricane wave-induced forces and moments on bridge span.</p> | |
| | |  | |
| | |  | |
| | |  | |
| Completion Date (actual or estimated): | | Estimated Cost: | |
| | | Entire Project: | Work for which Firm was responsible: |
| Start Date: December 2007 | End Date: July 2008 | N/A | \$323,000 (Fee) |

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.

COMPANY OVERVIEW & HISTORY

Hartman Engineering, Inc., (HEI) was established in July 1986 as a consulting engineering firm specializing in planning, design, and construction management services for civil and environmental engineering projects.

The firm's offices are fully insured and licensed to provide professional engineering services. We are equipped with the latest in computer aided design, communications technologies, and Geographic Information System (GIS) that enable us to provide responsive and economical design and construction services. This document includes a description of our staff's capabilities and a discussion of HEI's project experience. HEI currently employs engineers, scientists, designers, CAD technicians, construction inspectors and clerical staff with experience in:

- Coastal Restoration and Protection – Program Management, Preliminary and Final Design, Environmental, Construction Administration, Permitting.
- Wastewater, water, stormwater, and solid waste facilities, planning, & design.
- Flood protection and drainage – studies, numerical modeling, design, construction administration, permitting and funding.
- Roadway, sidewalk & associated utility services.
- Bridge design.
- Computerized graphics, mapping, and GIS.
- Construction Management and Resident Inspection Services.
- Commercial land development permitting, planning, and design.

MINIMUM REQUIREMENTS FOR SELECTION:

- The persons or firms under consideration shall have at least one (1) principal who is a licensed, registered architect and/or a professional engineer in the State of Louisiana (Section C. of TEC Professional Services Questionnaire)
 - **Jared B. Monceaux, P.E.** **HEI, LA PE 32202** **Exp. 3/31/2026**
- The person or firms under consideration shall have a professional in charge of the Project who is a licensed, registered engineer and/or architect in the State of Louisiana with a minimum of five (5) years' experience. (Section K. "PROFESSIONAL IN CHARGE OF PROJECT:" of TEC Professional Services Questionnaire)
 - **Jared B. Monceaux, P.E.** **HEI, LA PE 32202** **Exp. 3/31/2026**
- The person or firms under consideration shall have one (1) employee who is a licensed 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).
 - **Rolland A. Mura, P.E., BCEE** **LA PE 14997 (1975)** **Exp. 3/31/2026**
 - **Danielle B. Connelly, P.E.** **LA PE 36284 (2011)** **Exp. 9/30/2025**

1. PROFESSIONAL TRAINING AND EXPERIENCE (35 points)**HEI has extensive experience in the following:*****Coastal Restoration***

- Projects have been completed in Louisiana, Mississippi and other parts of the nation. Project assignments included Shoreline Stabilization Study, Emergency Stabilization Shoreline Breach Closure, Erosion Control, Diversion and Terracing, Freshwater Delivery Enhancement, and Trash Screen Replacement.

Flood Control

- Projects have been completed in Louisiana, Mississippi and other parts of the nation. Project assignments included planning (feasibility studies, hydraulic modeling, NEPA compliance, public outreach, grant management, and agency coordination), design (civil, structural, mechanical, electrical, instrumentation/control/SCADA, and hydraulic), construction management and QA, and resident inspection. Project features included flood gates and locks, drainage pump stations, retrofit of water and wastewater infrastructure for storm-proofing and flood proofing.

Hurricane Protection

- Projects have been completed nationwide by various team members. Project assignments included planning (feasibility studies, hydraulic modeling, NEPA compliance, public outreach, grant management, and agency coordination), design (civil, structural, mechanical, electrical, instrumentation/control/SCADA, and hydraulic), construction management and QA, and resident inspection. Project features included levees and flood walls, flood gates and locks, drainage pump stations, retrofit of water and wastewater infrastructure for storm-proofing and flood proofing.

Ecosystem Restoration

- Projects have been completed nationwide by various team members. Project assignments included planning (feasibility studies, hydraulic modeling, NEPA compliance, public outreach, grant management, and agency coordination), design (civil, structural, mechanical, electrical, instrumentation/control/SCADA, and hydraulic), construction management and QA, and resident inspection. Project features included constructed wetlands, freshwater diversion, stormwater nonpoint source pollution treatment and prevention.

Permitting

- HEI has provided Federal, State, and Local permitting for approximately 80% of all design projects since HEI's inception in 1986.

Water and Wastewater Treatment

- Projects have been completed nationwide by various team members. Project assignments included planning (feasibility studies, hydraulic modeling, NEPA compliance, public outreach, grant management, and agency coordination), design (civil, structural, mechanical, electrical, instrumentation/control/SCADA, and hydraulic), construction management and QA, and resident inspection. Project features included water treatment, storage, transmission and distribution facilities, wastewater collection assessment, rehabilitation and new construction, hydraulic modeling of water and wastewater infrastructure, pump station investigations for current capacity and hurricane damage evaluation.

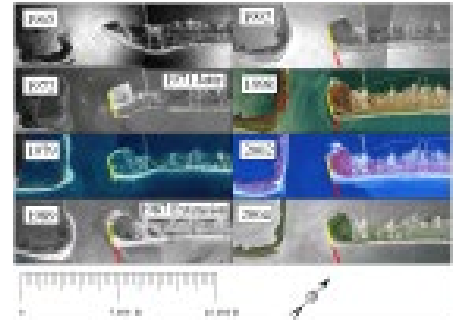
Multi-Hazard Digital Mapping

- Multiple members of the proposed team have experience with surveying, mapping, and GIS. Newer GPS based survey methods have been adopted by all applicable members for wider adaptability. Hazard mapping has been accomplished both during post-storm emergency situations, as well as during non-storm background conditions for long term planning purposes. Team members have large inventory of aerial mapping equipment and personnel available to be mobilized on short notice. The team members are intimately familiar with interpretation of aerial mapping data, incorporation of digital survey data into GIS shape files and databases, legible and user-friendly mapping with the digital data, and detailed delineation of hazards.

EXAMPLE COASTAL RESTORATION PROJECTS

Louisiana Department of Natural Resources - Grand Isle Shoreline Restoration (HEI Project No. 11-020-04)

The goal of this study was to develop a comprehensive long-term engineering solution for erosion and storm damage reduction to the Gulf of Mexico Shoreline of Grand Isle. HEI provides an effective, economical, and environmentally acceptable engineering solution to address the unique and complex physical processes that control and influence shoreline erosion at Grand Isle. This work was broken into two parts.

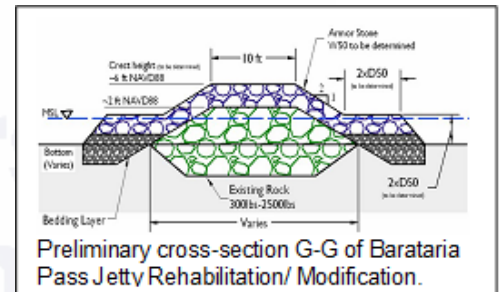


Louisiana Department of Natural Resources - Grand Isle Shoreline Restoration (HEI Project No. 11-020-04)



Part 1 represents a coastal engineering analysis that identifies the factors controlling shoreline erosion. A solution scheme was developed to meet the project goals based on the factors controlling erosion. The solution consists of six independent components.

Part 2 of the report presents the preliminary design of the selected component alternatives. Construction aspects of these components are discussed and evaluated, and a preliminary cost estimate for each component is presented.



Louisiana Department of Natural Resources – Elmer's Island Shoreline Restoration (HEI Project No. 11-020-04)



Project oversight and QA/QC for studying shoreline erosion in Elmer's Island near Grand Isle, LA. The project objectives were to quantify land loss, to identify specific causes of shoreline erosion, to assess various improvement alternatives, to recommend the most feasible improvement alternative and to develop cost opinion for recommended action. The project involved data collection, hydraulic modeling, feasibility study and agency coordination.

Louisiana Department of Natural Resources – Elmer's Island Shoreline Breach Restoration (HEI Project No. 11-020-04)



Project oversight and QA/QC for this emergency project to repair breach in shoreline of Elmer's Island. The project objectives were to mobilize in an emergency manner to assess the extent of shoreline breach damage, design repairs to the breach, and assist with bidding and construction management.

2. FIRM SIZE (10 points)

HEI has a full staff to provide engineering services, with offices in Kenner and Prairieville, Louisiana. HEI's staff of experienced, qualified, licensed engineers, all registered in the State of Louisiana as well as three licensed interns, draftsmen, and a variety of other support staff ready to work on this project. A number of our key personnel also hold advanced engineering degrees in their respective fields. This team of professionals has extensive experience in coastal restoration, flood protection, environmental management, construction management, program management, permitting and regulatory requirements.

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

HEI is proud of our past performance and service to previous, present, and continuing clientele, and none of HEI's past project work have 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.

HEI has the staff and resources to complete this project on schedule. HEI can commence work within 30 calendar days or even earlier upon receiving the notice to proceed from Jefferson Parish.

5. LOCATION OF THE PRINCIPAL OFFICE WHERE WORK WILL BE PERFORMED (10 points)

HEI's offices are located in Kenner and Prairieville, Louisiana. The Kenner office is located within Jefferson Parish and will be providing all of the professional services under this contract.

6. LITIGATION (15 points)

In over thirty years of professional service activities, HEI has not been involved in any litigation activity with Jefferson Parish or any other clients.

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

HEI has successfully completed multiple of projects for Jefferson Parish over the past 38 years including stormwater and wastewater system assessment, design, funding and construction administration, environmental site assessments, environmental assessment and NEPA documentation, and hurricane hazard mitigation design for drainage. We offer the following references for your review and invite you to contact them directly for a discussion of HEI's capabilities:

- **Ignacio Harrouch, P.E., Chief of Construction • Coastal Protection Restoration Authority • PO Box 44027, Baton Rouge, LA 70804 • 225-342-4501**
- **Mark Drewes, P.E., Dir. of Public Works • Jefferson Parish • 1221 Elmwood Park Blvd., Ste. 9004, Jefferson, LA. 70123 • 504-736-6783**

- **Jackie Baumann, P.E., City Engineer • City of Gonzales • 120 S Irma Blvd., Gonzales, LA 70737 • 225-647-9589**
- **Neil Schneider, P.E., Dir. Of Capital Projects • Jefferson Parish • 1221 Elmwood Park Blvd., Ste. 906, Jefferson, LA 70123 • 504-736-6833**
- **Ryan Foster, P.E., Project Engineer • Orleans Levee District • 6920 Franklin Ave, New Orleans, LA 70122 • 504-286-3100**
- **Jason Lacombe, P.E. • Assistant Road Design • Engineer Administrator, LADOTD • 1201 Capitol Access Rd. Baton Rouge, LA 70802 • 225-379-1046**
- **Ryan King, National Water Infrastructure • 7458 Cornerview Road, Geismar, LA 70734 • 225-673-3156**
- **Ron Savoy, East Ascension Gravity Drainage District Director • 42077 Churchpoint Rd. Gonzales, LA 70737 • 225-450-1386**

PAST AND CURRENT PROFESSIONAL ACCOMPLISHMENTS

HEI has been licensed to do engineering in Louisiana for 38 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.)

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: July 16, 2024



**LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(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 **03/31/2026**

Status: **Active**



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

Mr. Rolland Anthony Mura

License/Certificate Type - Number Expiration Date
PE.0014997 **03/31/2026**

Status: **Active**



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

Mrs. Danielle Bordelon Connelly

License/Certificate Type - Number Expiration Date
PE.0036284 **09/30/2025**

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.

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

Mr. Sundararaja Channakesavapura Rao

License/Certificate Type - Number Expiration Date
PE.0017005 **09/30/2025**

Status: **Retired**



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

Mr. Raul H. Regis

License/Certificate Type - Number Expiration Date
PE.0034006 **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. 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).


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.

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.

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.



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

Mr. Emmett J. Mayer Jr.

License/Certificate Type - Number Expiration Date
PE.0012757 **03/31/2025**

Status: **Active**




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

Mr. Connor Guidry

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

Status: **Active**



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

Ms. Madeline M. Bourgeois

License/Certificate Type - Number Expiration Date
EI.0034782 **09/30/2025**

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.

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.

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.

| | |
|--|-------------------|
|  <p>LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com</p> | |
| Mr. Jordan Edward LeBas | |
| License/Certificate Type - Number | Expiration Date |
| EI.0035548 | 03/31/2026 |
| 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.

4/17/24, 10:33 AM

[Print Lookup Details](#)

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

| | |
|---------------------------|---|
| Name: | Public Address: |
| Hartman Engineering, Inc. | B.K. Sneed, C.E.O. 527 West Esplanade Avenue, Suite 300 Kenner, Louisiana 70065 |

License/Certificate Information w/ Supervision

| License | Status | First Issuance Date | Expiration Date | Supervisor(s) |
|------------|--------|---------------------|-----------------|---|
| EF.0001344 | Active | 09/25/1986 | 03/31/2026 | Mr. Jared Blayne Monceaux # PE.0032202 |



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 6/13/2024 to 6/13/2025 .

Certification No. 13205

A handwritten signature in black ink, reading "Stephanie Hartman", written over 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, reading "John W. Matthews, Jr.", with a horizontal line underneath.

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,

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,

A handwritten signature in black ink, appearing to read "Walter Baummy Jr.", is located above the typed name.

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:

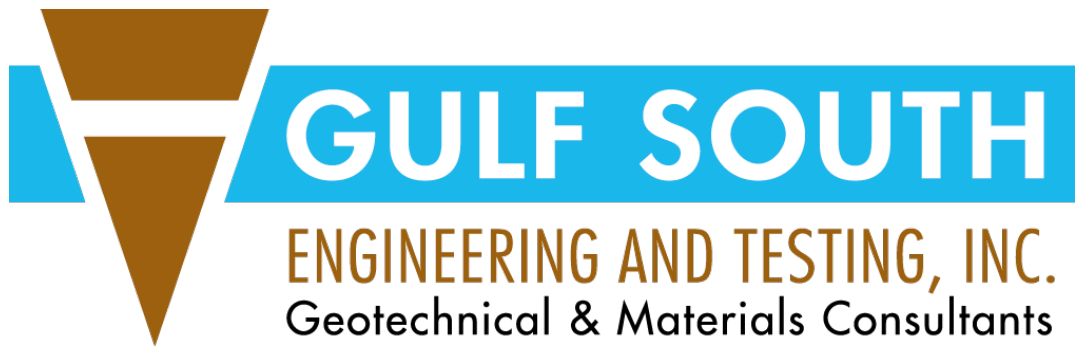
I would like to acknowledge Hartman Engineering, Inc.'s excellent performance on all facets of their ongoing environmental justice support to the Corps' New Orleans area hurricane protection system projects. They have been responsive and adaptive to the various changing conditions and demands of the 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, reading "Joan M. Exnicios", is positioned above the printed name.

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



QUALIFICATIONS

Jefferson Parish TEC Professional Services Questionnaire

Revised Form 02/02/2022

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

As-Needed Parish-Wide

Coastal Engineering Consulting Services

SOQ 24-020 | Resolution No. 144205

B. Firm Name & Address:



Gulf South Engineering and Testing, Inc.

15 Veterans Memorial Boulevard | Kenner LA 70062

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

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

504-305-4401 | 504-460-5239 cell | cpoche@gulfsoutheng.com

Registered Professional Civil Engineer (Louisiana No. 27667; since 1998)

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

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

504-305-4401 | 504-460-5239 cell | cpoche@gulfsoutheng.com

Registered Professional Civil Engineer (Louisiana No. 27667; since 1998)

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

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

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

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

TEC Professional Services Questionnaire

| | | |
|--|-------------------|---|
| G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary. | | |
| 1. <div style="text-align: center; font-size: 1.2em;">N/A</div> | | |
| 2. | | |
| H. Has this JOINT-VENTURE previously worked together? Please check: <div style="display: flex; justify-content: space-around; margin-top: 5px;"> YES_____ NO_____ N/A </div> | | |
| I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary. | | |
| Name & Address: | Specialty: | Worked with Firm Before (Yes or No): |
| 1. <div style="text-align: center; font-size: 1.2em;">N/A</div> | | |
| 2. | | |
| 3. | | |
| J. Please specify the total number of support personnel that may assist in the completion of the Project: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="border-bottom: 1px solid black; width: 100px; text-align: center; font-size: 1.2em; margin-right: 10px;">30</div> (all personnel will be available for assignment to the project) </div> | | |

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Chad M. Poché, P.E.

Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Geotechnical Engineer / Principal In Charge

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

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

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

Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new bulkhead wall around Marsh Island. Gulf South's scope includes drilling two soil borings each to a depth of 30 feet on the island, lab testing, and geotechnical engineering analyses including sheetpile and/or retaining wall design parameters, earth pressures, and general construction procedures and recommendations. (\$5,000 (fee); 2017)

Tchefuncte Marsh Shoreline Protection Project: New Borrow Fill Area, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for shoreline protection along the Lake Pontchartrain coastline by construction of a rock dike (approx. 15,000 lf) and marsh fill area located east of the mouth of the Tchefuncte River in St. Tammany Parish, LA. Scope includes drilling 14 borings within the lake, each to a depth of 40 feet below the water surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates. (\$90,000 (fee); 2021)


Northshore Living Shoreline Protection, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for shore protection along the northshore of Lake Pontchartrain coastline in two areas by constructing rock dikes in St. Tammany Parish, LA. Gulf South's scope includes drilling 16 borings each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates. (\$65,000 (fee); 2023)

Tchefuncte Marsh Shoreline Protection - New Rock Dikes, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for the shore protection along Lake Pontchartrain coastline by constructing a rock dike at Tchefuncte Marsh in St. Tammany Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (18 at 30 ft) in Lake Pontchartrain, laboratory testing (including consolidation tests), engineering analyses (bearing values, settlement, slope stability, construction procedures & recommendations). The project utilized shallow-draft barge equipment. (\$65,000 (fee); 2020)

Proposed Estuary Mitigation Bank (EMB) GIWW - Deadend Canal, Vendome Canal, Hockey Stick Canal, Crown Point, Jefferson Parish, LA. Geotechnical investigation for construction of a new wetland restoration project near Crown Point, LA. Gulf South's scope includes drilling nine soil borings to depths of 15 and 40 feet in water and marsh, lab testing (including settlement column test), and geotechnical engineering analysis including estimates of settlement, time rate of settlement, borrow/fill ratios, and general construction recommendations. (\$26,500 (fee); 2016)

Engineering Analysis Review (EAR) - Lafitte Tidal Protection Project (Phase I), Lafitte, Jefferson Parish, LA. Engineering analysis review of alternative pile type/size recommendations (provided by Client) for drainage structure site in Jefferson Parish, near Lafitte, LA. Gulf South's scope includes engineering analysis consisting of LPILE analysis and general construction recommendations. (\$5,000 (fee); 2016)

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: | |
|---|--|
| Name & Title: | |
| Bryson S. Beard, P.E., ACI Associate Geotechnical Engineer/Field Engineer | |
| Project Assignment: | |
| Associate Geotechnical Engineer/Field Engineer | |
| Name of Firm with which associated: | |
| <div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div> | |
| Years' experience with this Firm: | |
| 2 years (joined Gulf South in 2022); 3 years total (2021) | <i>Gulf South Engineering and Testing, Inc. 2022 to present</i> <i>TetraTech, Inc. 2021 to 2022</i> |
| Education: Degree(s)/Year/Specialization: | |
| B.S., Geological Engineering (2021; University of Mississippi) | |
| Active Registration: Year first registered/discipline: | |
| Louisiana P.E. License Passed October 2023 Georgia, Engineering Intern (No. EIT029180, 2022) | |
| Other experience and qualifications relevant to the proposed Project: | |
| <p>Bryson S. Beard, P.E., is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. He has performed geotechnical engineering analyses consisting of shallow and deep foundations, slope stability, TRS and sheetpile wall design, settlement, pavement design, etc., and has prepared engineering reports. Mr. Beard's experience in the field includes surface and subsurface soil sampling, water sampling, and soil classification. His work experience further includes core logging and oversight of groundwater monitoring well installations, piezometers, and inclinometers. He has been responsible for the preparation of reports and Facility Response Plans. He is experienced with laboratory sample preparation and testing as well as air sampling and soil gas sampling.</p> <p>Mr. Bryson recently passed his Louisiana Professional Engineering test and will be a noted P.E. for the State of Louisiana once he fulfills the apprenticeship requirements set forth by LAPELS.</p> <p>Northshore Living Shoreline Protection, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for shore protection along the northshore of Lake Pontchartrain coastline in two areas by constructing rock dikes in St. Tammany Parish, LA. Gulf South's scope includes drilling 16 borings each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates. (\$65,000 (fee); 2023)</p> | |

TEC Professional Services Questionnaire

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

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)

Barber Road Bank Stabilization, Paradis, St. Charles Parish, LA. Geotechnical engineering services for portions of the road that have failed or are failing into the ditch along Barber Road in Paradis, LA. Gulf South's scope includes drilling five borings (depth of 40 feet below ground surface), laboratory testing, engineering analyses (slope stability analyses, pavement design) and general construction procedures and recommendations. (\$12,000 (fee); 2022)


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

Geotechnical Exploration Proposal (LED Site Certification), Port of Terrebonne, Houma, LA. Geotechnical services regarding LED Certification for a 35-acre site along Rome Woodard Drive for the Port of Terrebonne in Houma, LA. Drilled undisturbed soil borings. Geotechnical laboratory testing performed in accordance with ASTM standards, and includes strength tests (unconfined and/or triaxial), classification tests (Atterberg Limits and/or particle size), and other testing as appropriate. Geotechnical evaluation includes subsoil conditions, allowable soil bearing values, allowable pile load capacities, settlement estimates, and general construction procedures & recommendations. (\$5,900 (fee); 2024)

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)

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

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: | |
|--|---|
| Name & Title: | |
| Joseph H. "Trey" Binder, III, ACI Laboratory Manager | |
| Project Assignment: | |
| Laboratory Manager; Laboratory Technician | |
| Name of Firm with which associated: | |
|  ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants | |
| Years' experience with this Firm: | |
| 13 years (joined Gulf South in 2011); 13 years total (2011) | <i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 2006 to 2007</i> |
| Education: Degree(s)/Year/Specialization: | |
| A.D., General Studies (2006; Nunez Community College) | |
| Active Registration: Year first registered/discipline: | |
| HAZMAT Awareness HAZMAT Operations Training ACI Aggregate Base Testing Technician ACI Concrete Strength Testing Technician | |
| Other experience and qualifications relevant to the proposed Project: | |
| <p>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.</p> <p>Tchefuncte Marsh Shoreline Protection Project: New Borrow Fill Area, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for shoreline protection along the Lake Pontchartrain coastline by construction of a rock dike (approximately 15,000 linear feet) and marsh fill area located east of the mouth of the Tchefuncte River in St. Tammany Parish, LA. Gulf South's scope includes drilling 14 borings within the lake, each to a depth of 40 feet below the water surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates. (\$90,000 (fee); 2021)</p> | |

TEC Professional Services Questionnaire

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

Northshore Living Shoreline Protection, Lake Pontchartrain, St. Tammany Parish, LA. Geotechnical engineering services for shore protection along the northshore of Lake Pontchartrain coastline in two areas by constructing rock dikes in St. Tammany Parish, LA. Gulf South's scope includes drilling 16 borings each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates. (\$65,000 (fee); 2023)


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

Highway 90 Tie-In Levee, Upper Barataria Risk Reduction Program Segment 4, St. Charles Parish, LA. Geotechnical investigation for construction of a new earthen levee within the flood protection/risk reduction system in St. Charles Parish, LA. Scope includes drilling undisturbed soil borings, CPT probes, lab testing, and engineering analyses (site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship), estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. (\$174,720 (fee); 2021)

Bayou Gauche/Sunset Levee - New Roller Gate, Upper Barataria Risk Reduction Program Segment 2, St. Charles Parish, LA. Geotechnical investigation for construction of a new roller gate and T-wall structures. Gulf South's scope includes drilling undisturbed soil borings (2 at 200 ft.), CPT probes (2 at 200 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, design levee lift stability, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. The borings and CPT were performed over water using barge-mounted equipment. (\$110,880 (fee); 2020)

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

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: | |
|--|---|
| Name & Title: | |
| Eric A. Paille, C.E.T., ACI Construction Services Manager | |
| Project Assignment: | |
| Construction Services Manager | |
| Name of Firm with which associated: | |
| <div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div> | |
| Years' experience with this Firm: | |
| 13 years (joined Gulf South in 2011); 35 years total (1989) | <i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 1988 to 2007</i> |
| Education: Degree(s)/Year/Specialization: | |
| High School Diploma | |
| Active Registration: Year first registered/discipline: | |
| <i>ACI-I Field Technician (since 1991; No. 929012)</i> <i>Certified Engineering Technician (since 1992)</i> <i>Nuclear Gauge Safety Training (since 1994; No. 061321)</i> <i>Pile Driving Analyzer/CAPWAP, OSHA 40 HAZWOPER</i> | |
| Other experience and qualifications relevant to the proposed Project: | |
| <p>Eric A. Paille, C.E.T., ACI, serves as Gulf South's Construction Services Manager as well as the manager of our Gonzales office. He has experience as a technician, inspector, and testing manager, and is knowledgeable in all aspects of construction materials testing and construction inspection. Mr. Paille has performed all applicable field and soil tests over the past 30+ years. In addition, he is certified in the safe use and handling of the nuclear density gauge. He received PDA training in 2003 and has knowledge of PDA testing along with significant experience with pile driving analyzers. Mr. Paille is one of the most knowledgeable people in our industry.</p> <p>Highway 90 Tie-In Levee, Upper Barataria Risk Reduction Program Segment 4, St. Charles Parish, LA. Geotechnical investigation for construction of a new earthen levee within the flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 3 at 75 ft.), CPT probes (6 at 75 ft.), lab testing, and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. (\$174,720 (fee); 2021)</p> | |

TEC Professional Services Questionnaire

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

Marsh Island Wildlife Refuge Levee/Bulkhead Repairs (Louisiana DNR), Vermillion Bay, New Iberia, Iberia Parish, LA. Geotechnical investigation for various repairs to a dam, levee, and bulkhead at Marsh Island Wildlife Refuge in Iberia Parish, LA. Gulf South's scope of work includes drilling five soil borings each to a depth of 60 feet using marsh drilling equipment, laboratory testing, and geotechnical engineering services consisting of providing allowable soil bearing values, allowable pile capacities, bulkhead design parameters, slope stability analyses, estimates of settlement, and general construction recommendations. (\$51,250 (fee); 2014)


Proposed Estuary Mitigation Bank (EMB) GIWW - Deadend Canal, Vendome Canal, Hockey Stick Canal, Crown Point, Jefferson Parish, LA. Geotechnical investigation for construction of a new wetland restoration project near Crown Point, LA. Gulf South's scope includes drilling nine soil borings to depths of 15 and 40 feet in water and marsh, lab testing (including settlement column test), and geotechnical engineering analysis including estimates of settlement, time rate of settlement, borrow/fill ratios, and general construction recommendations. (\$26,500 (fee); 2016)

Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new bulkhead wall around Marsh Island within Lafreniere Park in Metairie, LA. Gulf South's scope includes drilling two soil borings each to a depth of 30 feet on the island, lab testing, and geotechnical engineering analyses including sheetpile and/or retaining wall design parameters, earth pressures, and general construction procedures and recommendations. (\$5,000 (fee); 2017)

South Lafourche Levee District - Morganza to the Gulf (Reach K Mitigation Area), Lafourche Parish, LA. Geotechnical investigation for a wetlands mitigation project in Lafourche Parish, LA. Project consists of dredging various canals (totaling approx. 2.6 miles or 13,750 lf) and creating wetlands (approx. 40 acres). Gulf South's scope includes drilling 18 undisturbed soil borings to depths of 10 feet (12 borings in canals) and 30 feet (6 borings in fill area) below apparent mud line, lab testing (including consolidation tests & Settlement Column tests), and engineering analyses (inclusive of estimates of settlement, borrow/fill ratios, time rate settlement, slope stability analyses), and general construction recommendations. All borings were performed over water using barge and marsh buggy equipment. Analyses submitted, reviewed, and approved by the Louisiana Department of Natural Resources and the U.S. Army Corps of Engineers. (\$42,000 (fee); 2017)

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

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: | |
|---|--|
| Name & Title: | |
| Ian Kerner Poché, ACI Assistant Laboratory Supervisor | |
| Project Assignment: | |
| Assistant Laboratory Supervisor | |
| Name of Firm with which associated: | |
| <div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div> | |
| Years' experience with this Firm: | |
| 7 years (joined Gulf South in 2017); Gulf South Engineering and Testing, Inc. 2017 to present 7 years total (2017) | |
| Education: Degree(s)/Year/Specialization: | |
| High School Diploma | |
| Active Registration: Year first registered/discipline: | |
| ACI Concrete Field Testing Technician - Grade 1 (exp 2028 03) ACI Aggregate Testing Technician - Level 1 (exp 2029 02 27) | |
| Other experience and qualifications relevant to the proposed Project: | |
| <p>Ian Poché has worked in Gulf South's laboratory for several years and has experience with virtually every type of soil test. He has also helped when needed in the CMT department and has concrete testing experience, and is an ACI-certified Concrete Field Testing Technician.</p> <p>Bayou Des Allemands Gate, Upper Barataria Risk Reduction Program Segment 3, St. Charles Parish, LA. Geotechnical investigation for construction of a new swinging barge gate structure within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 2 at 120 ft., 1 at 100 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. One boring was performed over water; the remaining borings were performed over land. (\$145,885 (fee); 2021)</p> <p>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)</p> | |

TEC Professional Services Questionnaire

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

Geotechnical Exploration Proposal (LED Site Certification), Port of Terrebonne, Houma, LA. Geotechnical services regarding LED Certification for a 35-acre site along Rome Woodard Drive for the Port of Terrebonne in Houma, Drilled undisturbed soil borings. Geotechnical laboratory testing performed in accordance with ASTM standards, and includes strength tests (unconfined and/or triaxial), classification tests (Atterberg Limits and/or particle size), and other testing as appropriate. Geotechnical evaluation includes subsoil conditions, allowable soil bearing values, allowable pile load capacities, settlement estimates, and general construction procedures & recommendations. (\$5,900 (fee); 2024)

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


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

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

Ole Miss Sewer Force Main, City of Kenner, LA. Geotechnical engineering services for the construction of a new sewer force main along Ole Miss Drive from the John Hopkins Lift Station to 35th Street within Kenner, LA. The force main will be 10-inches in diameter, approximately 2,100 linear feet, and installed 10 to 15 feet deep via directional drilling. Gulf South's scope includes drilling four undisturbed soil borings to depths of 20 feet below the ground surface, laboratory testing, engineering analyses (including soil bearing values, bedding & backfill, and settlement) and general construction procedures and recommendations. (\$8,000 (fee); 2021)

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

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: | |
|---|--|
| Name & Title: | |
| Brandon A. Paille, ACI Construction Materials Testing (CMT) Supervisor/Project Manager | |
| Project Assignment: | |
| Construction Materials Testing (CMT) Supervisor/Project Manager | |
| Name of Firm with which associated: | |
| <div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div> | |
| Years' experience with this Firm: | |
| 5 years (2012-2016; 2023 to present); 14 years total (2010) | <i>Gulf South Engineering and Testing, Inc. 2023 to present</i> <i>Ascension Parish Sheriff's Office 2016 to 2023</i> <i>Gulf South Engineering and Testing, Inc. 2012 to 2016</i> <i>Ardaman and Associates, Inc. 2010 to 2012</i> |
| Education: Degree(s)/Year/Specialization: | |
| <i>High School Diploma</i> | |
| Active Registration: Year first registered/discipline: | |
| APNGA Nuclear Gauge Safety ACI Field Technician Level 1 OSHA Safety Training – 8 hr. | |
| Other experience and qualifications relevant to the proposed Project: | |
| <p>Brandon A. Paille, ACI has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, hydrometers, Atterberg limits, organic contents, moisture contents, proctor compaction tests, sieve analyses, as well as extrusion of samples. Mr. Paille's field experience includes soil inspection and testing consisting of nuclear density testing, soil boring logging, concrete testing and inspections, timber and precast pile logging and vibration monitoring. In Mr. Paille's years in the construction materials testing industry, he has obtained a vast amount of knowledge and experience which makes him an integral part of our Gulf South Team.</p> <p>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)</p> <p>Bucktown Paddlers Launch, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes building earthwork, paving & concrete, concrete testing, soil density tests, pile inspection and modeling, and vibration monitoring. (\$15,000; 2023)</p> | |

TEC Professional Services Questionnaire

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

Bonanza Pump Station Flood Protection, Houma, Terrebonne Parish, LA. Geotechnical investigation for replacement of an existing bulkhead at Terrebonne Parish's Bonanza Pump Station in Houma, LA. Gulf South's scope of work included performing a soil boring to a depth of 80 feet, laboratory testing, and geotechnical engineering analyses consisting of bulkhead design parameters (tip depth, bending moment, anchor force, etc.), and general construction recommendations. (\$4,500 (fee); 2013)

Casing Installation - 40 Arpent Canal Floodwall, Chalmette, St. Bernard Parish, LA. Geotechnical investigation for casing installations at 40 Arpent Canal floodwall in Chalmette, LA. Casings installed to perform sonic tests to determine sheet pile lengths. Casings installed to depths of 40 to 60 feet below the ground surface and within 15 feet of the existing sheet pile. (\$18,900 (fee); 2014)

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

Drainage System Engineering Analysis – CCTV Drain Line Inspections, City of New Orleans, LA. Project management and oversight of cleaning/flushing and inspection of sewer drainage pipelines in New Orleans, LA. Gulf South oversaw field operations and coordinated project phases with subcontractors. Subcontractor's inspection methods will utilize CCTV camera equipment to record drain line data. During post processing phase, all data was compiled and consolidated to create a digital database of the drain line information. (\$20,000 (fee); 2014)

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

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

Water Sampling in Mobile Bay, U.S. Coast Guard – Aviation Training Center, Mobile, AL. Surface water sampling in Mobile Bay at 3 locations, 2 times per month for period of 1 year. Samples were tested for Enterococci, Organic Carbon, and TSS. Gulf South reported every event as well as summarized every 3 months of sampling, and further compared results to EPA thresholds. Report rainfall levels were noted 3 days prior and after sampling. (\$33,000 (fee); 2012)

TEC Professional Services Questionnaire

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

PROJECT NO. 1

| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: |
|--|---|
| Tchefuncte Marsh Shoreline Protection Project: New Borrow Fill Area, Lake Pontchartrain, St. Tammany Parish, Louisiana Volkert, Inc. 9448 Brookline Ave Baton Rouge LA 70809 Matt Salmon, 225-218-9440 matt.salmon@volkert.com | Geotechnical engineering services for shoreline protection along the Lake Pontchartrain coastline by construction of a rock dike (approximately 15,000 linear feet) and marsh fill area located east of the mouth of the Tchefuncte River in St. Tammany Parish, LA. Gulf South's scope includes drilling 14 borings within the lake, each to a depth of 40 feet below the water surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates. |
| Completion Date (Actual or estimated:) | Estimated Cost: |
| | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Entire Project: N/A </div> <div style="text-align: center;"> Work for which Firm was Responsible: \$90,000 (fee) </div> </div> |
| December 2021 | |

PROJECT NO. 2

| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: |
|--|---|
| Proposed Estuary Mitigation Bank (EMB) GIWW - Deadend Canal, Vendome Canal, Hockey Stick Canal, Crown Point, Jefferson Parish, Louisiana The Natural Resources Investment Group, LLC 3801 Woodland Heights Rd Ste 110 Little Rock AR 72217 Robert Stainton III, PE, 501-716-2884 robert@tnrig.com | Geotechnical investigation for construction of a new wetland restoration project near Crown Point, LA. Gulf South's scope includes drilling nine soil borings to depths of 15 and 40 feet in water and marsh, lab testing (including settlement column test), and geotechnical engineering analysis including estimates of settlement, time rate of settlement, borrow/fill ratios, and general construction recommendations. |
| Completion Date (Actual or estimated:) | Estimated Cost: |
| | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Entire Project: N/A </div> <div style="text-align: center;"> Work for which Firm was Responsible: \$26,500 (fee) </div> </div> |
| October 2016 | |

TEC Professional Services Questionnaire

| PROJECT NO. 3 | | |
|---|--|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Northshore Living Shoreline Protection, Lake Pontchartrain, St. Tammany Parish, Louisiana</p> <p>Barowka & Bonura Engineers 209 Canal Street Metairie LA 70005</p> <p>Jeff Bonura, P.E., 504-828-0030 jbonura@bbecllc.com</p> | <p>Geotechnical engineering services for shore protection along the northshore of Lake Pontchartrain coastline in two areas by constructing rock dikes in St. Tammany Parish, LA. Gulf South's scope includes drilling 16 borings each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided recommendations for allowable soil bearing values, estimates of settlement, slope stability analyses, time rate of settlement, and strength gain estimates.</p> | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| February 2023 | N/A | \$65,000 (fee) |

| PROJECT NO. 4 | | |
|---|--|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Marsh Island Wildlife Refuge Levee/ Bulkhead Repairs (Louisiana DNR), Vermillion Bay, New Iberia, Iberia Parish, Louisiana</p> <p>Royal Engineers & Consultants, LLC 3909 Ambassador Caffery Pkwy. Lafayette LA 70503</p> <p>Beau Tate, 337-456-5351 btate@royalengineering.net</p> | <p>Geotechnical investigation for various repairs to a dam, levee, and bulkhead at Marsh Island Wildlife Refuge in Iberia Parish, LA. Gulf South's scope of work includes drilling five (5) soil borings each to a depth of 60 feet using marsh drilling equipment, laboratory testing, and geotechnical engineering services consisting of providing allowable soil bearing values, allowable pile capacities, bulkhead design parameters, slope stability analyses, estimates of settlement, and general construction recommendations.</p> | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| May 2015 | N/A | \$51,250 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 5 | | |
|--|---|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Tchefuncte Marsh Shoreline Protection - New Rock Dikes, Lake Pontchartrain, St. Tammany 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@pi-aec.com</p> | <p>Geotechnical engineering services for the shore protection along Lake Pontchartrain coastline by constructing a rock dike at Tchefuncte Marsh in St. Tammany Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (18 at 30 ft) in Lake Pontchartrain, laboratory testing (including consolidation tests), engineering analyses (bearing values, settlement, slope stability, construction procedures & recommendations). The project utilized shallow-draft barge equipment.</p> | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| June 2020 | N/A | \$65,000 (fee) |

| PROJECT NO. 6 | | |
|--|--|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Highway 90 Tie-In Levee, Upper Barataria Risk Reduction Program (UBRR) Segment 4, St. Charles Parish, Louisiana</p> <p>Lafourche Basin Levee District 21380 Highway 20 Vacherie LA 70090</p> <p>Donald Ray Henry, 225-265-7545 drhenry@lbld.us.com</p> | <p>Geotechnical investigation for construction of a new earthen levee within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 3 at 75 ft.), CPT probes (6 at 75 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations.</p> | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| January 2021 | N/A | \$174,720 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 7 | | |
|---|--|---|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| Marsh Island Restoration Project, Lafreniere Park , Metairie, Jefferson Parish, Louisiana Mathes Brierre Architect 201 St. Charles Street, Suite 4100 New Orleans LA 70170-4100 Scott Evans, AIA , 504-586-9303 sevans@mathiesbrierre.com | Geotechnical investigation for construction of a new bulkhead wall around Marsh Island within Lafreniere Park in Metairie, LA. Gulf South's scope includes drilling two soil borings each to a depth of 30 feet on the island, lab testing, and geotechnical engineering analyses including sheetpile and/or retaining wall design parameters, earth pressures, and general construction procedures and recommendations. | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| May 2017 | N/A | \$5,000 (fee) |

| PROJECT NO. 8 | | |
|---|---|---|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| Bayou Des Allemands Gate, Upper Barataria Risk Reduction (UBRR) Program Segment 3 , St. Charles Parish, Louisiana Lafourche Basin Levee District 21380 Highway 20 Vacherie LA 70090 Donald Ray Henry , 225-265-7545 drhenry@lbld.us.com | Geotechnical investigation for construction of a new earthen levee within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 3 at 75 ft.), CPT probes (6 at 75 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| February 2021 | N/A | \$145,885 (fee) |

TEC Professional Services Questionnaire


| PROJECT NO. 9 | | |
|---|---|---|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| Engineering Analysis Review (EAR) - Lafitte Tidal Protection Project (Phase I), Lafitte, Jefferson Parish, Louisiana G&S Engineering, LLC Post Office Box 71 Mandeville LA 70470 Scott Gros, 504-744-0630 scottgros@gmail.com | Engineering analysis review of alternative pile type/size recommendations (provided by Client) for drainage structure site in Jefferson Parish, near Lafitte, LA. Gulf South's scope includes engineering analysis consisting of LPILE analysis and general construction recommendations. | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| June 2016 | Entire Project: | Work for which Firm was Responsible: |
| June 2016 | N/A | \$5,000 (fee) |

| PROJECT NO. 10 | | |
|--|--|---|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| Laketown Boat Launch Improvements - New Rock Jetty, South Shore Lake Pontchartrain, City of Kenner, Jefferson Parish, Louisiana Jefferson Parish 1221 Elmwood Park Blvd Ste 310 Jefferson LA 70123 Michelle M. Gonzales, CFM, 504-736-6653 mgonzales@jeffparish.net | Geotechnical engineering services for the construction of a rock jetty dike and boat launch protection along the Lake Pontchartrain shoreline at the Laketown Boat Launch in Kenner. Gulf South's scope includes drilling undisturbed soil borings (two at 50 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. One boring was drilled within Lake Pontchartrain (using barge-mounted drilling equipment) and one boring was drilled on land. | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| January 2021 | Entire Project: | Work for which Firm was Responsible: |
| January 2021 | N/A | \$21,500 (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. | <div style="border: 1px solid black; padding: 10px; margin: 5px;"> <i>Gulf South Engineering and Testing, Inc. is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i> </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.



ENGINEERING AND TESTING, INC.
 Geotechnical & Materials Consultants

CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

Gulf South Engineering and Testing, Inc. (Gulf South) is a geotechnical engineering and construction materials testing and inspection company which began operations in 2011. Since that time, we have grown to two offices and nearly three dozen employees.

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

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

Geotechnical Engineering Services

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

TEC Professional Services Questionnaire

N. continued.

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

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

Field Investigation Services

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

Laboratory Testing Services

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

Construction Materials Testing & Inspection

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

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

TEC Professional Services Questionnaire

N. continued.

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

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

Please refer to our projects included in Item L and in our personnel listings in Item K for specific type project examples and an overview of our professional experience with this project type.

CRITERIA 2 | SIZE OF FIRM

At over 30 employees, Gulf South has the appropriate number of employees and personnel for this project. We will complete our scope of services on time and within budget. Further said, Gulf South can readily meet the time and budget constraints for projects assigned to this contract. Our current workload is such that we can expeditiously complete projects for this contract.

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

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

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

Gulf South has worked both directly and indirectly for various Jefferson Parish Departments (Public Works, Engineering Department, Drainage Department, Jefferson Parish School Board, etc.) throughout our history. Beyond the projects included within this form, additional project information (including listings, background, & client contacts) are available upon request. We have also completed similar services for Public and Private concerns throughout the region.

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | LEGAL STATEMENT

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

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

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

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

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

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

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

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

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

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

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

Signature: _____

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: June 25, 2024



BFM
CORPORATION, LLC
Professional Land & Hydrographic Surveying



QUALIFICATIONS

Jefferson Parish **TEC Professional Services Questionnaire**

Revised Form 02/02/2022

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

As-Needed Parish-Wide

Coastal Engineering Consulting Services

SOQ **24-020** | Resolution No. **144205**

B. Firm Name & Address:



BFM Corporation, LLC

15 Veterans Memorial Boulevard | Kenner LA 70062

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

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

504-468-8800 | 504-468-8800 cell | ralph@bfmcorporation.com

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

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

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

504-468-8800 | 504-468-8800 cell | ralph@bfmcorporation.com

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

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

| | | | | | |
|----------|-----------------------------|----------|-------------------------------------|-----------|--|
| <u>4</u> | Administrative | | Estimators | | Specification Writers |
| | Architects (Licensed) | | Geologists | | Structural Engineers |
| | Chemical Engineers | <u>1</u> | Geotechnical Engineers | | Graduate Engineers |
| | Civil Engineers | | Interior Designers | <u>2</u> | Project Managers |
| | Construction Inspectors | | Landscape Architects | | Clerical (<i>see Administrative</i>) |
| | Ecologists | <u>1</u> | Land Surveyor (<i>Apprentice</i>) | | Grant/Funding Specialist |
| | Electrical Engineers | | Mechanical Engineers | | Sanitary Engineers |
| | Engineer Intern | | Environmental Engineers | <u>1</u> | <i>Researcher/Archivist</i> |
| <u>2</u> | Professional Land Surveyors | | | <u>3</u> | <i>CADD Technicians</i> |
| | | | | <u>6</u> | <i>Survey Crew Chief</i> |
| | | | | <u>6</u> | <i>Survey Crew Instrumentman</i> |
| | | | | <u>26</u> | TOTAL |

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

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

TEC Professional Services Questionnaire

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

1.
N/A

2.

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

YES _____ NO _____ N/A

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

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

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

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

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Ralph P. Fontcuberta, Jr., PLS

Executive Vice President / Registered Professional Land Surveyor

Project Assignment:

Registered Professional Land Surveyor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

42 years (Founding Principal of BFM in 1982); Gulf South Engineering and Testing, Inc. | 2017 to present
57 years total (1967) BFM Corporation, LLC | 1982 to present
Surveys, Inc. | 1967 to 1982
The Boeing Company | 1964 to 1967

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

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

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

Mr. Fontcuberta's surveying experience with Jefferson Parish can be traced back to BFM's inception in 1982, and to 1967 then while working as a surveyor with another firm. He has over half a century of experience with surveying throughout the region and specifically with Jefferson Parish. He has served as the PLS for projects throughout every corner of Jefferson Parish. Relevant project history includes, but is certainly not limited to, the following:

- Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, LA
- Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, LA
- The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, LA
- Abita River Regional Detention Pond Expansion, St. Tammany Parish, LA
- Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA
- Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, LA
- Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, LA
- Marsh Island (Lafreniere Park), Metairie, Jefferson Parish, LA
- Alexis Bay Marsh Creation Project, Venice, Plaquemines Parish, LA
- Bayou Segnette Topographic Survey, Westwego, Jefferson Parish, LA
- Trapp Canal Improvements, Bayou Fatma to Bayou Barataria, Jefferson Parish, LA
- Grand Isle State Park Breakwater Survey for Erosion, Jefferson Parish, LA
- Lower Lafitte Shoreline Stabilization at Bayou Rigolets, Segments AU1 and AU5, Jefferson Parish, LA
- Elmer's Island Surveying Services, Grand Isle, Jefferson Parish, LA
- Grand Isle Jetty Project, Grand Isle, Jefferson Parish, LA
- Fifi Island Restoration Extension, Jefferson Parish, LA
- Hydrographic Survey of the Mississippi River Range Line 1-9, Westwego, Jefferson Parish, LA
- Bayou Segnette Fronting Protection/New Pump Station, Westwego, Jefferson Parish, LA
- Lake Pontchartrain LPV149 - Caernarvon Canal Floodwall Construction Layout Survey, St. Bernard/Plaquemines Parish, LA
- Tchefuncte River Area Surveys, Tchefuncte River, LA
- Multibeam Hydrographic Survey, Pelican Island, Plaquemines Parish, LA
- SLFPA-E Levee Certification Phase 2 Survey - 40 Arpent & Maxent Levees, Orleans & St. Bernard Levee Systems, Orleans Parish, LA
- Forested Ridge Reach B-2, Fort Jackson to Venice, Plaquemines Parish, LA
- Bayou Sale Shoreline Protection Project (TV-20), Terrebonne Parish, LA
- Bayou Henderson, Ascension Parish, LA

TEC Professional Services Questionnaire

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

- LPV 107 Lincoln Beach Levee & Gate, Orleans Parish, LA
- Lac Des Allemands Shoreline Protection & Restorations, St. John the Baptist Parish, LA
- Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, LA
- Hydrographic/Reclamation Monitoring at Multiple Sites, Terrebonne Parish, LA
- Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 4, St. Charles Parish, LA
- Lake Pontchartrain Shoreline Projection and Enhancement Design Survey, St. Charles Parish, LA
- Louisiana DNR 2503-00-40; Bathymetric Surveying for Lake Borgne at Shell Beach (PO-30), LA
- Lincoln Beach Restoration, Orleans Parish, LA
- Goose Bayou Ridge Creation and Shoreline Protection Project, Goose Bayou at Cypress Bayou, LA
- Barataria Bridge, Jonathan Davis Wetland Restoration, LA
- USCG Belmont Ranges, St. James Parish, Gramercy, LA
- Barataria Basin Landbridge Shoreline Protection, LA
- Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 1, St. Charles Parish, LA
- Walnut Street, Orleans Street, and Oak Park Pond, St. Tammany Parish, LA
- Central Wetlands Unit and 40 Arpent Canal Access & Enhancement Project, St. Bernard Parish, LA
- WBV-MRL 4.1, English Turn Bend to Belle Chasse, Plaquemines Parish, LA
- Plaquemines Parish Coastal Restoration, Plaquemines Parish, LA
- Louisiana DNR 2503-00-40; Violet Canal - South of Chalmette on LA 46, St. Bernard Parish, LA
- Naomi Siphon Outfall Management (BA-03C) and Barataria Bay Waterway East Bank Protection (BA-26), LA
- WBV-MRL 6.1, Parish Line to English Turn Bend, Orleans & Plaquemines Parishes, LA
- USA Right-of-Way Line, Intracoastal Waterway in Belle Chasse, Plaquemines Parish, LA
- Shrimp Factory Alternative Site, SE Louisiana Flood Protection Authority - East, St. Bernard Parish, LA
- Rigolets Shoreline Protection Development, Third District, Orleans Parish, LA
- Deer Island Pass, St. Mary Parish, LA
- Fort Pike (State Historic Site), Slidell, St. Tammany Parish, LA
- Cat Island Restoration Project, Plaquemines Parish, LA
- Bayou Dupre Flood Gate, St. Bernard Parish, LA
- Black Bayou Surveying Services, Lake Charles, Calcasieu Parish, LA
- Bayou St. John Hydrographic Survey, New Orleans, LA
- Port of Manchac Soundings, Lake Pontchartrain, Manchac, Tangipahoa Parish, LA
- Tiger Pass Hydrographic Survey, Venice Boat Harbor Road, Belle Chasse, LA
- Intracoastal Waterway Cross Sections (including Engineers Road), Belle Chasse, Plaquemines Parish, LA
- Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 2, Lafourche Parish, LA

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Chad M. Poché, P.E.

Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Engineering Liaison

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E. is an Executive Vice President with (and partial owner of) BFM Corporation, LLC, and a co-founder of BFM's sister company, Gulf South Engineering and Testing, Inc. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

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

TEC Professional Services Questionnaire

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

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)

The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, LA. BFM provided Boundary and Route Topographic & Hydrographic Surveying for the project in Ascension Parish, LA; as established, the project was executed in two phases. BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$477,340 (fee); 2023)

Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA. BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits. (\$68,300 (fee); 2022)

Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, LA. BFM's scope of services included all topographic & hydrographic surveying as directed; magnetometer surveying was utilized to determine the presence of pipelines within the subject survey area. BFM established as client-supplied baseline and Temporary Benchmarks (TBM). Provided cross sections along Bayou Des Allemands and located elements & existing improvements within the designated limits of survey, as well as above- & below-ground utilities. As-built data was also considered. (\$118,873 (fee); 2019)

Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 1, St. Charles Parish, LA. BFM provided topographic and hydrographic surveying services for Segment 1 of the Upper Barataria Basin Risk Reduction (UBRR) Project; this involved the Davis Pond West Guide Levee in St. Charles Parish. (\$19,147 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gary J. Lambert, Jr., PLS

Vice President / Registered Professional Land Surveyor

Project Assignment:

Project Manager/Drafting Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

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

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

Active Registration: Year first registered/discipline:

2021, Professional Land Surveyor (Louisiana No. 5929)

Other experience and qualifications relevant to the proposed Project:

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

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

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

TEC Professional Services Questionnaire

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

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)

Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA. BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits. (\$68,300 (fee); 2022)

Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, LA. BFM's scope of services included all topographic & hydrographic surveying as directed; magnetometer surveying was utilized to determine the presence of pipelines within the subject survey area. BFM established as client-supplied baseline and Temporary Benchmarks (TBM). Provided cross sections along Bayou Des Allemands and located elements & existing improvements within the designated limits of survey, as well as above- & below-ground utilities. As-built data was also considered. (\$118,873 (fee); 2019)

Abita River Regional Detention Pond Expansion, St. Tammany Parish, LA. BFM provided topographic and hydrographic surveying services for the project, whose Limits of Survey consisted of Parcel A3-A, a portion of Lambert Investments Minor Subdivision, in St. Tammany Parish. BFM established two temporary benchmarks (TBMs) along Harrison Avenue near the project site, with the vertical datum referenced to NAVD 1988. Surveying services included location of the existing pond, adjoining swales and culverts, and two ditches which exist within the remainder of Parcel A3-A. Spot elevations were taken at 200 ft. intervals on land and 50 ft. within the limits of the pond. Deliverables included detailed indelible prints showing plan & profile views with cross-sections along with digital files. (\$68,400 (fee); 2019)

The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, LA. BFM provided Boundary and Route Topographic & Hydrographic Surveying for the project in Ascension Parish, LA; as established, the project was executed in two phases. BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$477,340 (fee); 2023)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Lemley
Field Operations Manager/Survey Crew Chief

Project Assignment:

Field Operations Manager/Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

10 years (joined BFM in 2014); BFM Corporation, LLC | 2014 to present
18 years total (2006) G.E.C., Inc. | 2010 to 2014
Krebs, LaSalle, LeMieux Consultants, Inc. | 2006 to 2010

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

Chris Lemley's services as BFM's Field Operations Manager includes overseeing all field work and activity by company personnel. His surveying experience includes over 8 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station. Notable past project work has included the New Orleans Museum of Art, Jackson Barracks Restoration, US Highway 11, NASA Michoud Cells 3 & 4, the St. Bernard Lot Next Door Program, and multiple Orleans Parish School Recovery projects (including L.B. Landry, George Washington Carver, and Alice M. Harte schools).

Lafitte Area Levee Repair (BA-82) (CPRA 4400007082, Task 8), Jefferson Parish, LA. BFM provided all topographic and hydrographic surveying services as required by the project. This included establishing a baseline parallel to the shoreline, establishing temporary benchmarks, plotting location of improvements, determining pipeline aspects (size, depth, etc.), and taking cross sections, as well as all elements of the hydrographic survey of the waterway. (\$8,924 (fee); 2017)

Lower Lafitte Waterline, Jefferson Parish, LA. BFM provided surveying services associated with the location of a 16 inch plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project. BFM provided stakeout surveying for the project, staking the water

TEC Professional Services Questionnaire

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

line every 50 feet (with 4 ft. wooden stakes). Certain areas were very deep and the line was not accurately located in this area. BFM set markers where approximate locations were based on the areas where the line was found. (\$38,205 (fee); 2017)

Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, LA. 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. (\$12,197 (fee); 2015)

Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA. BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits. (\$68,300 (fee); 2022)

Alexis Bay Marsh Creation Project, Venice, Plaquemines Parish, LA. BFM provided multiple survey services for this marsh creation project, including elevations, locations, establishing control points, and plat preparation. The project, which specifically involved the creation of a terrace field in Alexis Bay near Venice, Louisiana, also included general topographic surveying services of the project's island location. Hydrographic surveying via airboat was a project element. (\$8,625 (fee); 2015)

Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 1, St. Charles Parish, LA. BFM provided topographic and hydrographic surveying services for Segment 1 of the Upper Barataria Basin Risk Reduction (UBRR) Project; this involved the Davis Pond West Guide Levee in St. Charles Parish. (\$19,147 (fee); 2019)

Hydrographic/Reclamation Monitoring at Multiple Sites, Vermilion Parish, LA. BFM provided topographic and hydrographic surveying services for ongoing reclamation monitoring at multiple sites, including Blue Hammock, Bay Goreau, Bay Goreau (West), and Hellhole Bay. GPS surveying services included elevations based on NAVD 1988 vertical (Geoid 12A epoch 2006.85), which utilized land-based laser scanning. Spot elevations were also provided. For the hydrographic surveying elements, BFM's dual frequency Z-boat took soundings in the same area (to show depth of silt and hard pan with a minimum water depth of 18 inches to show dual frequency); as the soundings got closer to the water's edge the surface of the silt was utilized to tie into the bank. Further, BFM plotted location of improvements within the designated limits of the survey. Deliverables included hardcopy, PDF, and AutoCAD DWG files. (\$35,500 (fee); 2016)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

John Philip Thayer

Procurement Director (Proposals & Project Management Support)

Project Assignment:

Project Management Support

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

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

Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, LA. BFM's surveying services on the project included establishing horizontal & vertical control (referenced to established benchmark and LA State Plane Coordinate System, NAD 1983 2011), coordination of proposed bulkhead/I-wall centerline, and collection of spot elevation every 25 feet along the centerline. BFM also plotted collected data with centerline overlaid for reference purposes. Deliverables include hardcopy, PDF, and AutoCAD DWG files. (\$23,220 (fee); 2017)

Lac Des Allemands Shoreline Restorations, St. John the Baptist Parish, LA. BFM provided surveying services for the project, which extended from Vacherie Canal southeast along the shoreline of Lac Des Allemands to Pointe Aux Herbes, a distance of approximately 11,000 feet. Surveying services included the research & review of any existing survey data and establishing a project baseline along the existing shoreline. Cross-sections extended from the baseline, 100 ft. in shore to 500 ft. off shore, every 300 ft. and perpendicular along the baseline. Hydrographic surveying included the mouth of the Vacherie Canal and mouth of Oil Well Canal, noting any significant features. Geotechnical borings were located (for plan identification). BFM further

TEC Professional Services Questionnaire

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

established control (for use by contractor during construction), and prepared drawings of the survey results to include a plan view of the survey and a profile view of each transect. (\$38,399 (fee); 2010)

Lake Pontchartrain Shoreline Projection and Enhancement Design Survey, St. Charles Parish, LA. For the project, BFM provided topographic and hydrographic survey in the Labranche Wetlands area on the south shore of Lake Pontchartrain. The project begins at the easterly end of the previously constructed shoreline protection project east to the St. Charles-Jefferson Parish line. BFM also surveyed canals, sloughs and bayous that emptied into Lake Pontchartrain a minimum of 100 feet from the point of entry into the lake. Controls were established following the shoreline of Lake Pontchartrain for the entire project length. All sections taken were stationed along this baseline, which was based on the Louisiana State Plane Coordinate System, Lambert Grid, NAD 1983 (2007) as established by GPS observations. Elevations were established on each control point (based on NAVD 1988) and transects along the survey baseline taken at 300 ft. intervals (shorter intervals where necessary to define the shoreline). Transects extended 100 ft. inland to 500 ft. off the shoreline, with additional shots taken in-between to define it accurately. BFM further located existing weirs, dams or levees constructed across canals, sloughs or bayous, as well as any soil boring sites in the project area. (\$32,295 (fee); 2010)

Lower Lafitte Shoreline Stabilization at Bayou Rigolets, Segments AU1 and AU5, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. (\$33,370 (fee); 2010)

Fifi Island Restoration Extension, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. The scope of services involved mapping of property lines and existing servitudes for the railroad, cemetery, private residences, and a commercial establishment (Dive Shop) north of Airline Boulevard. The project also included preparation of a servitude document across the railroad property. (\$10,210 (fee); 2011)

Port of Manchac Soundings, Lake Pontchartrain, Manchac, Tangipahoa Parish, LA. BFM provided surveying services for the project involving a centerline of channel soundings from Lake Pontchartrain to the Port of Manchac Harbor on North Pass. (\$3,300 (fee); 2010)

Alexis Bay Marsh Creation Project, Venice, Plaquemines Parish, LA. BFM provided multiple survey services for this marsh creation project, including elevations, locations, establishing control points, and plat preparation. The project, which specifically involved the creation of a terrace field in Alexis Bay near Venice, Louisiana, also included general topographic surveying services of the project's island location. Hydrographic surveying via airboat was a project element. (\$8,625 (fee); 2015)

Goose Bayou Ridge Creation and Shoreline Protection Project, Goose Bayou at Cypress Bayou, LA. BFM located the western shoreline of Goose Bayou from the Pen in Lafitte to its intersection with Cypress Bayou. Surveying services included cross sections every 300 feet extending 100 feet into the marsh and sounding out the centerline of Goose Bayou. (\$25,325 (fee); 2009)

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: | |
|--|---|
| Name & Title: | |
| Dawn Hoffman Researcher/Archivist | |
| Project Assignment: | |
| Researcher/Archivist | |
| Name of Firm with which associated: | |
|  BFM CORPORATION, LLC Professional Land & Hydrographic Surveying | |
| Years' experience with this Firm: | |
| 15 years (joined BFM in 2009); 27 years total (1997) | <i>BFM Corporation, LLC 2009 to present</i> <i>Fluor Corporation 2007 to 2009</i> <i>Geographic Computer Technologies, LLC 2000 to 2007</i> |
| Education: Degree(s)/Year/Specialization: | |
| A.D., 1999, Computer-Aided Drafting, Southeast College of Technology Certificate, 2003, Introduction to ArcGIS, Louisiana State University | |
| Active Registration: Year first registered/discipline: | |
| N/A | |
| Other experience and qualifications relevant to the proposed Project: | |
| <p>Dawn Hoffman serves as BFM's primary researcher and has more than 25 years of experience in this field. She is extremely knowledgeable with researching in various parishes and cities.</p> <p>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)</p> <p>Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, LA. 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</p> | |

TEC Professional Services Questionnaire

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

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. (\$12,197 (fee); 2015)

Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, LA. BFM's surveying services on the project included establishing horizontal & vertical control (referenced to established benchmark and LA State Plane Coordinate System, NAD 1983 2011), coordination of proposed bulkhead/I-wall centerline, and collection of spot elevation every 25 feet along the centerline. BFM also plotted collected data with centerline overlaid for reference purposes. Deliverables include hardcopy, PDF, and AutoCAD DWG files. (\$23,220 (fee); 2017)

Marsh Island (Lafreniere Park), Metairie, Jefferson Parish, LA. BFM Corporation provided bathymetric and topographic surveying services for the Marsh Island project at Lafreniere Park in Jefferson Parish, Louisiana. The survey encompassed the island and surrounding waters up to and including the sidewalk. Cross sections of the island and surrounding waters were cut after the topographic and hydrographic surveying was completed. (\$9,568 (fee); 2016)

SLFPA-E Levee Certification Phase 2 Survey - 40 Arpent & Maxent Levees, Orleans & St. Bernard Levee Systems, Orleans Parish, LA. BFM surveyed the centerline of the 40 Arpent "Back" Levee (in excess of 124,000 lf on a 100 ft grid). Control points were established utilizing RTK GPS. In addition, each pump station was surveyed and all grade breaks/roads were obtained along the centerline of the levee. The old shrimp building at Violet Canal was also located as part of the survey. Surveys included utility locations (based on field evidence, investigation, and available utility records) as well as foundation of above-ground utility poles, wet wells, and pipeline crossings. Bathymetry information was incorporated into cross-section point file and combined with ground survey; this information was further converted to the same elevations as the levee profile work. Additional cross sections were surveyed to support detailed geotechnical analysis; locations were coordinated with the geotechnical engineer of record for the project. These cross sections extended 100 ft from the toe of the levee in both directions and included bathymetry of the lake, wetland, or canal, depending on location, and extended until depth of the body was determined. (\$166,500 (fee); 2013)

Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA. BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits. (\$68,300 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Anthony Watson

CADD Technician (AutoCADD Drafting Services)

Project Assignment:

CADD Technician (AutoCADD Drafting Services)

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

Coursework - CAD, Avatech Solutions, Los Colinas, TX

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

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

Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, LA. BFM's surveying services on the project included establishing horizontal & vertical control (referenced to established benchmark and LA State Plane Coordinate System, NAD 1983 2011), coordination of proposed bulkhead/I-wall centerline, and collection of spot elevation every 25 feet along the centerline. BFM also plotted collected data with centerline overlaid for reference purposes. Deliverables include hardcopy, PDF, and AutoCAD DWG files. (\$23,220 (fee); 2017)

Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, LA. 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

TEC Professional Services Questionnaire

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

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. (\$12,197 (fee); 2015)

Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, LA. BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits. (\$68,300 (fee); 2022)

The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, LA. BFM provided Boundary and Route Topographic & Hydrographic Surveying for the project in Ascension Parish, LA; as established, the project was executed in two phases. BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$477,340 (fee); 2023)

Bayou Segnette Fronting Protection/New Pump Station, Westwego, Jefferson Parish, LA. BFM's surveying services included establishment of vertical control for a new pump station. Total Station services were utilized for the project. (\$3,435 (fee); 2012)

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)

Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, LA. BFM's scope of services included all topographic & hydrographic surveying as directed; magnetometer surveying was utilized to determine the presence of pipelines within the subject survey area. BFM established as client-supplied baseline and Temporary Benchmarks (TBM). Provided cross sections along Bayou Des Allemands and located elements & existing improvements within the designated limits of survey, as well as above- & below-ground utilities. As-built data was also considered. (\$118,873 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Curtis "Jay" Barrios
Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, LA.
BFM's surveying services on the project included establishing horizontal & vertical control (referenced to established benchmark and LA State Plane Coordinate System, NAD 1983 2011), coordination of proposed bulkhead/I-wall centerline, and collection of spot elevation every 25 feet along the centerline. BFM also plotted collected data with centerline overlaid for reference purposes. Deliverables include hardcopy, PDF, and AutoCAD DWG files. (\$23,220 (fee); 2017)

Lake Pontchartrain Shoreline Projection and Enhancement Design Survey, St. Charles Parish, LA.
For the project, BFM provided topographic and hydrographic survey in the Labranche Wetlands area on the south shore of Lake Pontchartrain. The project begins at the easterly end of the previously constructed shoreline protection project east to the St. Charles-Jefferson Parish line. BFM also surveyed canals, sloughs and bayous that emptied into Lake Pontchartrain a minimum of

TEC Professional Services Questionnaire

Other experience and qualifications: **Curtis "Jay" Barrios (continued)**

100 feet from the point of entry into the lake. Controls were established following the shoreline of Lake Pontchartrain for the entire project length. All sections taken were stationed along this baseline, which was based on the Louisiana State Plane Coordinate System, Lambert Grid, NAD 1983 (2007) as established by GPS observations. Elevations were established on each control point (based on NAVD 1988) and transects along the survey baseline taken at 300 ft. intervals (shorter intervals where necessary to define the shoreline). Transects extended 100 ft. inland to 500 ft. off the shoreline, with additional shots taken in-between to define it accurately. BFM further located existing weirs, dams or levees constructed across canals, sloughs or bayous, as well as any soil boring sites in the project area. (\$32,295 (fee); 2010)

Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, LA. 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. (\$12,197 (fee); 2015)

Fifi Island Restoration Extension, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. The scope of services involved mapping of property lines and existing servitudes for the railroad, cemetery, private residences, and a commercial establishment (Dive Shop) north of Airline Boulevard. The project also included preparation of a servitude document across the railroad property. (\$10,210 (fee); 2011)

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)

The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, LA. BFM provided Boundary and Route Topographic & Hydrographic Surveying for the project in Ascension Parish, LA; as established, the project was executed in two phases. BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$477,340 (fee); 2023)

TEC Professional Services Questionnaire

- L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this project. Please include 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: |
|--|---|
| Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, Louisiana APTIM 2424 Edenborn Avenue Suite 450 Metairie LA 70001 Gene S. Gillen, P.E., 504-832-4881 info@aptim.com | BFM provided topographic and hydrographic surveying; scope included establishing three static GPS observation points at major turns on the levee to ensure baseline is constrained to State Plane Coordinates; also established a baseline along the centerline of the existing earthen levee. Set vertical control TBMs and 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 utilities, existing wall, center of pumps, and discharge pipes at the existing pump station. Existing improvements (sheds, piers, buildings) and trees were included in general location surveying. |
| Completion Date (Actual or estimated:) | Estimated Cost: |
| | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Entire Project: </div> <div style="text-align: center;"> Work for which Firm was Responsible: </div> </div> |
| June 2018 | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">N/A</div> <div style="text-align: center;">\$150,000 (fee)</div> </div> |

PROJECT NO. 2

| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: |
|---|---|
| Upper Barataria Basin Risk Reduction (UBRR) Project, Segment 3, Lafourche Parish, Louisiana Greenup Industries, LLC 2200 Veterans Memorial Blvd Ste 114 Kenner LA 70062 Rodney Greenup, Jr., 225-283-4843 rodney@greenupind.com | BFM's scope of services included all topographic & hydrographic surveying as directed; magnetometer surveying was utilized to determine the presence of pipelines within the subject survey area. BFM established as client-supplied baseline and Temporary Benchmarks (TBM). Provided cross sections along Bayou Des Allemands and located elements & existing improvements within the designated limits of survey, as well as above- & below-ground utilities. As-built data was also considered. |
| Completion Date (Actual or estimated:) | Estimated Cost: |
| | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> Entire Project: </div> <div style="text-align: center;"> Work for which Firm was Responsible: </div> </div> |
| July 2019 | <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">N/A</div> <div style="text-align: center;">\$118,873 (fee)</div> </div> |

TEC Professional Services Questionnaire

| PROJECT NO. 3 | | |
|--|---|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, Louisiana Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans LA 70119 David Boyd, P.E., 504-483-6271 dboyd@bkusa.com | BFM provided Boundary and Route Topographic & Hydrographic Surveying for the project in Ascension Parish, LA; as established, the project was executed in two phases. BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| October 2023 | N/A | \$477,340 (fee) |

| PROJECT NO. 4 | | |
|--|--|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| Abita River Regional Detention Pond Expansion, St. Tammany Parish, Louisiana CSRS Inc. 6767 Perkins Road, Suite 200 Baton Rouge LA 70808 Scott Hoffeld, 225-769-0546 scott.hoffeld@csrsinc.com | BFM provided topographic and hydrographic surveying for the project, whose Limits of Survey consisted of Parcel A3-A, a portion of Lambert Investments Minor Subdivision, in St. Tammany Parish. BFM established two temporary benchmarks (TBMs) along Harrison Avenue near the project site, with the vertical datum referenced to NAVD 1988. Surveying services included location of the existing pond, adjoining swales and culverts, and two ditches which exist within the remainder of Parcel A3-A. Spot elevations were taken at 200 ft. intervals on land and 50 ft. within the limits of the pond. Deliverables included detailed indelible prints showing plan & profile views with cross-sections along with digital files. | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| July 2019 | N/A | \$68,400 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 5 | | |
|--|--|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| Tchefuncte Marsh Shoreline Protection Project (Magnetometer & Hydrographic Survey), St. Tammany Parish, Louisiana Volkert, Inc. 7967 Office Park Blvd 2nd Floor Baton Rouge LA 70809 Matt Salmon, P.E., 214-478-4754 matt.salmon@volkert.com | BFM provided Magnetometer & Hydrographic surveying services for the Tchefuncte Marsh Shoreline Protection Project. Prior to field work, BFM reviewed the Prime's design work plan (September 2021), reviewing existing and previous CPRA projects to identify previously permitted and approved marsh fill borrow areas in Lake Pontchartrain within 6 miles of the project's area. The scope of services included conducting a Magnetometer Survey throughout the site to identify any potential pipelines or other metallic obstructions. Services included surveying along four transects, parallel to the shoreline. A Hydrographic Survey of two 50-acre borrow pit locations was conducted. Cross Sections were taken at 250 ft. intervals within the borrow pits. | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| June 2022 | N/A | \$63,800 (fee) |

| PROJECT NO. 6 | | |
|--|--|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| Lafitte Tidal Protection, Phase II, Lafitte Area Independent Levee District, Jefferson Parish, Louisiana BCG Engineering & Consulting, Inc. 9619 Interline Avenue, Suite A Baton Rouge LA 70809 David T. Dodgen, 225-924-3116 | BFM's surveying services on the project included establishing horizontal & vertical control (referenced to established benchmark and LA State Plane Coordinate System, NAD 1983 2011), coordination of proposed bulkhead/I-wall centerline, and collection of spot elevation every 25 feet along the centerline. BFM also plotted collected data with centerline overlaid for reference purposes. Deliverables include hardcopy, PDF, and AutoCAD DWG files. | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| June 2017 | N/A | \$23,220 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 7 | | |
|---|--|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| Fisher Basin Alignment Extension (Fisher/Lafitte Tidal Protection Alignment), Jefferson Parish, Louisiana Brown Cunningham Gannuch 3012 26th Street Metairie LA 70002 Ann L. Springston, P.E., 504-454-3866 aspringston@ardurragroup.com | 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. | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| April 2015 | N/A | \$12,197 (fee) |

| PROJECT NO. 8 | | |
|--|---|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| Marsh Island (Lafreniere Park), Metairie, Jefferson Parish, Louisiana Mathes Brierre Architects 201 St. Charles Avenue, Suite 4100 New Orleans LA 70170-4100 Scott Evans, AIA, 504-586-9303 talfortish@mathesbrierre.com | BFM Corporation provided bathymetric and topographic surveying services for the Marsh Island project at Lafreniere Park in Jefferson Parish, Louisiana. The survey encompassed the island and surrounding waters up to and including the sidewalk. Cross sections of the island and surrounding waters were cut after the topographic and hydrographic surveying was completed. | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| February 2016 | N/A | \$9,568 (fee) |

TEC Professional Services Questionnaire

| PROJECT NO. 9 | | |
|---|--|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| Alexis Bay Marsh Creation Project, Venice, Plaquemines Parish, Louisiana Manchac Consulting Group, Inc. 2137-A Quail Run Drive, Suite A Baton Rouge LA 70808 Daniel Duhon, 225-448-3972 | BFM provided multiple survey services for this marsh creation project, including elevations, locations, establishing control points, and plat preparation. The project, which specifically involved the creation of a terrace field in Alexis Bay near Venice, Louisiana, also included general topographic surveying services of the project's island location. Hydrographic surveying via airboat was a project element. | |
| Completion Date (Actual or estimated:) | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| February 2015 | N/A | \$8,625 (fee) |

| PROJECT NO. 10 | | |
|---|--|--------------------------------------|
| Project Name, Location, and Owner's contact information: | Nature of Firm's Responsibility: | |
| Lower Lafitte Waterline Stakeout, Jefferson Parish, Louisiana CB&I 2424 Edenborn Avenue Suite 450 Metairie LA 70001 Gene S. Gillen, P.E., 504-832-4881 gene.gillen@cbi.com | BFM provided surveying services associated with the location of a 16 inch plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project. BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes). Certain areas were very deep and the line was not accurately located in this area. BFM set markers where approximate locations were based on the areas where the line was found. | |
| 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

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>BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</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 EXPERIENCE

Established in 1982, **BFM Corporation, LLC, Professional Land & Hydrographic Surveying**, provides services to public & private concerns throughout Louisiana and the Gulf South. For over 40 years, BFM has provided surveying services covering all facets of engineering, construction, and forensics; topographic, and hydrographic, as well as drone-based surveying and high-definition laser scanning.

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

Our capabilities include the following and more:

- Topographic Surveying
- Drone Surveying
- Photogrammic & LiDAR and 3D Laser Scanning
- Bathymetric / Hydrographic Surveys
- Property, Boundary, and Right-of-Way Surveys
- Maps, Cross-Sections, & Data Sets; Benchmarks

TEC Professional Services Questionnaire

N. continued.

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

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

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

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

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

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

Please refer to our projects included in Item L and in our personnel listings in Item K for specific type project examples and an overview of our surveying experience with this project type.

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

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

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

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

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

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

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

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

As noted, Mr. Fontcuberta has **over half a century of professional land surveying experience**, including over 40 years with BFM. **He has provided professional surveying services for thousands of projects for and throughout Jefferson Parish.**

TEC Professional Services Questionnaire

N. continued.

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

CRITERIA 6 | LEGAL STATEMENT

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

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

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

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

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

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

Ben Lapine, Acting Director, Department of Drainage, Jefferson Parish
(504-736-6661 | JPSewerage@jeffparish.net)

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

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

Signature: 

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: June 25, 2024