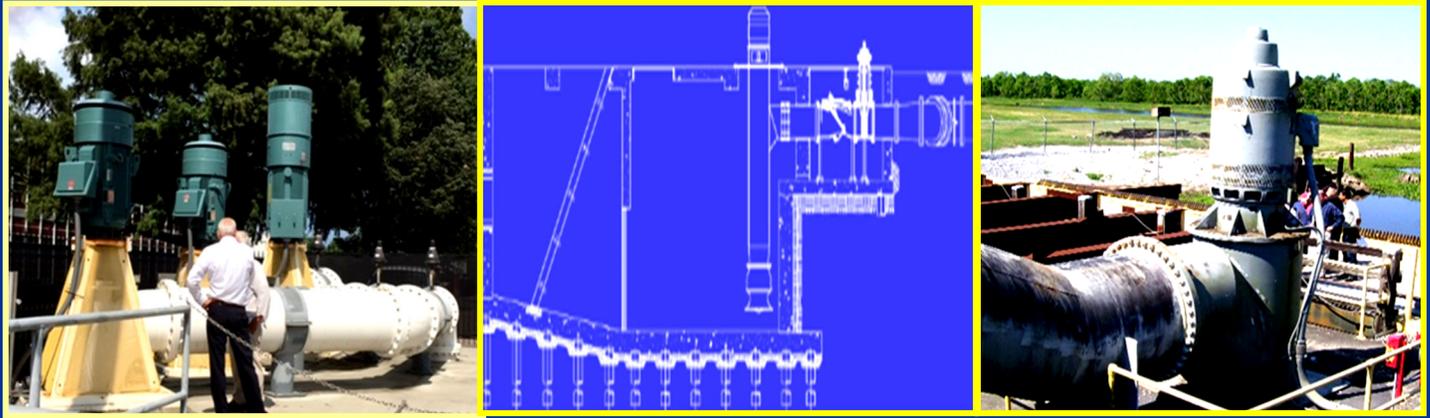




STATEMENT OF QUALIFICATIONS
Independence Park Drainage Pump Station
Jefferson Parish, Louisiana
Resolution No. 144443
SOQ 24-029



Submitted To:
Jefferson Purchasing Department
General Government Building
Attn: Mark Buttery, Purchasing Specialist II
200 Derbigny Street, Suite 4400
Gretna, LA 70053

Submitted By:
ECM Consultants, Inc.
1301 Clearview Parkway, Suite 200, Metairie, Louisiana 70001
Telephone: 504-885-4080 • Fax: 504-885-1439
kazem@ecmconsultants.com

In association with:
Bryant Hammett & Associates, LLC
Gulf South Engineering & Testing, Inc.
IMC Consulting Engineers, Inc.

August 29, 2024

ECM Consultants, Inc.

Engineers • Architects • Construction Managers

Email: mail@ecmconsultants.com Web: www.ecmconsultants.com

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

August 28, 2024

**Re: Independence Park Drainage Pump Station
Resolution No. 144443
SOQ 24-029**

Jefferson Parish Council:

ECM Consultants, Inc. is a licensed engineering, architectural, and construction management firm headquartered in Metairie, LA, offering a broad array of talent and expertise relevant to this Statement of Qualifications (SOQ). We are pleased to submit one (1) electronic copy of our Statement of Qualifications (TEC Questionnaire) for the above-referenced project via <http://www.centralauctionhouse.com>.

We understand that this project will include the design and construction of a **new 200 cfs** drainage pump station in Independence Park neighborhood in Metairie, Jefferson Parish, for the drainage area bounded Veterans Blvd. on North, I-10 Service Road on south, Jody/Lexington Street on West and Hessmer street on East. Work will include civil, structural, mechanical, electrical and geotechnical engineering and surveying. Major elements for the pump station will include intake structure with trash screen, pump station structure, installation of axial flow vertical pumps, installation of discharge pipes into Veterans Boulevard Canal, electrical system, controls, standby generator, and SCADA system which are standard for most of the Jefferson Parish Drainage Pump Stations.

ECM has extensive experience in engineering design, preparation of plans, specifications and estimates (PS&E), construction administration and construction inspection services for a number of similar drainage pump stations across Southeast Louisiana. We have provided drainage pump station design and construction services to Jefferson Parish – Department of Public Works, US Army Corps of Engineers - New Orleans District, US Army Corps of Engineers – Galveston District, and Sewerage and Water Board of New Orleans.

ECM have recently designed several drainage pump stations of similar scope of this project. This includes:

- 1 [West Esplanade Drainage Pump Station, Metairie](#) of capacity 180 cfs with direct drive axial flow pumps
2. [Westwego Pump Station No. 1](#) of capacity of 375 cfs with direct drive axial flow pumps
3. [Velasco East Levee Drainage Pump Station, Brazoria County, Texas](#), for expansion to add 580 cfs vertical ,pumps
4. [Veterans North Pump Station, Metairie](#) of capacity 60 cfs with direct drive axial flow pumps direct drive axial flow pumps.
5. [Veterans South Pump Station, Metairie](#) of capacity of 85 cfs with direct drive axial flow pumps
6. [Coventry Drainage Pump Station, River Ridge](#) of capacity 90 cfs now and 120 cfs for future expansion with submersible pumps
7. [Highway 45 Pump Station, Lafitte, Louisiana](#) of capacity 30 cfs with direct drive axial flow pumps

Our team includes Bryant Hammett and Associates, LLC to provide as needed surveying services, Gulf South Engineering and Testing, Inc. to provide geotechnical investigations and engineering services, and IMC Consulting Engineers to provide mechanical and electrical engineering services. All three firms are located in Jefferson Parish, have expertise in providing professional services required for design of the pump station and substantial experience working with Jefferson Parish.

We thank you for your time in reviewing our qualifications and hope our interest will receive favorable consideration. Should you have any questions or require any additional information, please contact me.

Very truly yours,



Kazem Alikhani, P.E.
Chief Executive Officer

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Resolution No. 144443
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Section 1

ECM Consultants, Inc.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:		
Independence Park Drainage Pump Station Resolution No. 144443 SOQ 24-029		
B. Firm Name & Address where Project work will be performed:		
 ECM Consultants, Inc. 1301 Clearview Parkway, Suite 200 Metairie, LA 70001		
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:		
<u>Principal:</u> Ujjal DasGupta, P.E. Louisiana Licensed Professional Engineer P.E. License No. 19848 Tel: (504) 885-4080 Fax: (504) 885-1439 Email: ujjal@ecmconsultants.com		
D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.		
<u>Professional in Charge of Project:</u> Kazem Alikhani, P.E. Louisiana Licensed Professional Engineer P.E. License No. 25073 Tel: (504) 885-4080 Fax: (504) 885-1439 Email: kazem@ecmconsultants.com		
E. Please provide the number of employees whose primary function corresponds with each category		
<u>8</u> Administrative <u>1</u> Architects <u>0</u> Chemical Engineers <u>16</u> Civil Engineers <u>32</u> Construction Inspectors <u>0</u> Ecologists <u>1</u> Electrical Engineers <u>2</u> Engineer Intern <u>0</u> Professional Land Surveyors	<u>0</u> Estimators <u>0</u> Geologists <u>0</u> Geotechnical Engineers <u>0</u> Interior Designers <u>0</u> Landscape Architects <u>0</u> Land Surveyor <u>2</u> Mechanical Engineers <u>0</u> Environmental Engineers <u>3</u> CAD Technicians	<u>0</u> Specification Writers <u>2</u> Structural Engineers <u>0</u> Graduate Engineers <u>4</u> Project Managers <u>0</u> Clerical <u>1</u> Grant/Fund Specialists <u>0</u> Sanitary Engineers <u>72</u> TOTAL
F. Is this submittal by a JOINT-VENTURE? Please check: YES NO <input checked="" type="checkbox"/>		

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

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

1. N/A

2. N/A

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

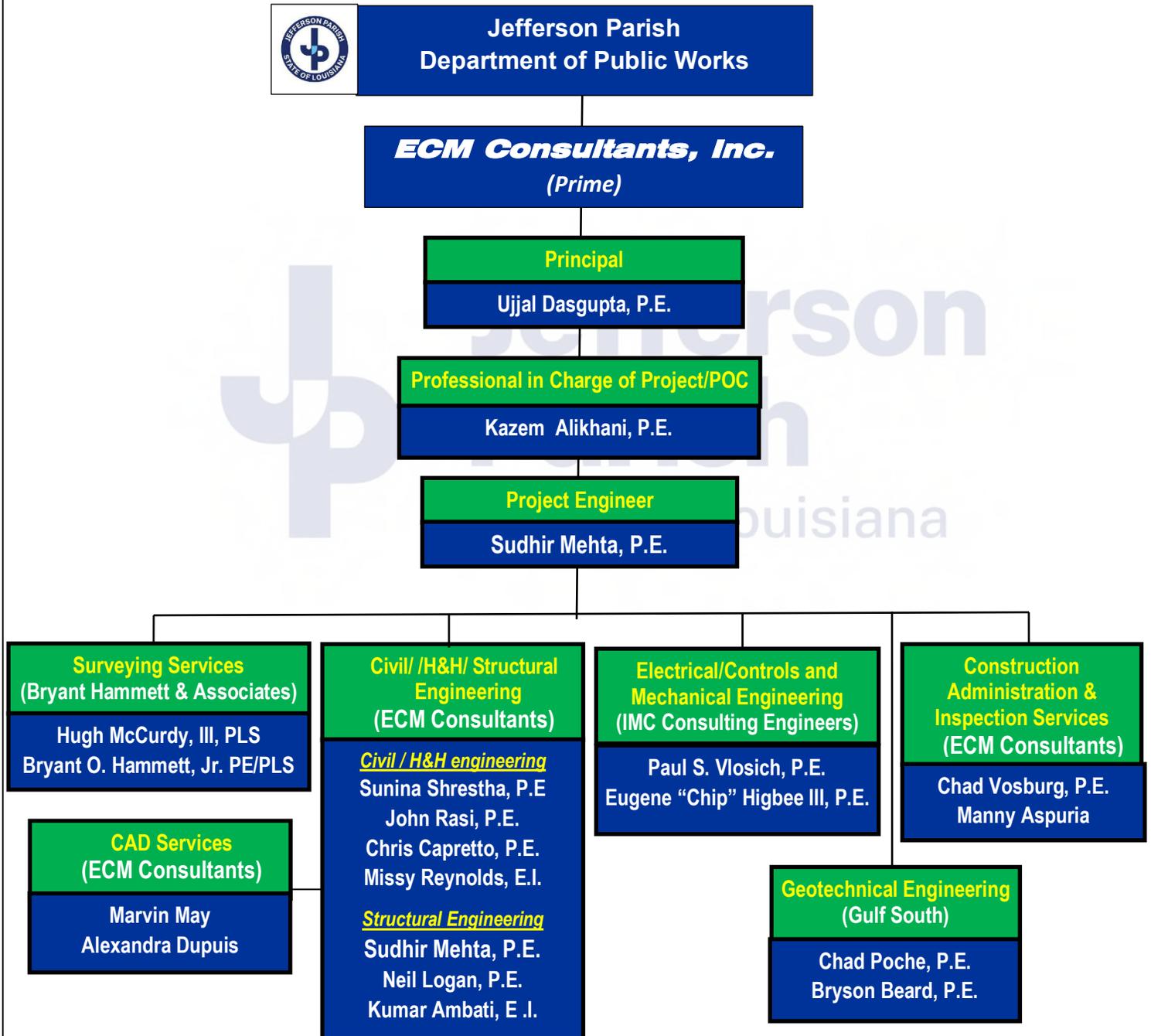
I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
<p>1.</p>  <p>BRYANT HAMMETT & ASSOCIATES, LLC <small>CIVIL ENGINEERING & LAND SURVEYING</small></p> <p>1104 Dealers Avenue Harahan, LA 70123</p>	<p>Surveying Services</p>	<p>YES</p>
<p>2.</p>  <p>GULF SOUTH <small>ENGINEERING AND TESTING, INC.</small> <small>Geotechnical & Materials Consultants</small></p> <p>2201 Aberdeen St. Kenner, LA 70062</p>	<p>Geotechnical Engineering</p>	<p>YES</p>
<p>3.</p>  <p>IMC <small>CONSULTING ENGINEERS</small> <small>INC.</small></p> <p>2714 Independence Street Metairie, LA 70006</p>	<p>Mechanical & Electrical Engineering</p>	<p>YES</p>

J. Please specify the total number of support personnel that may assist in the completion of this Project:
8

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 page if necessary.

ORGANIZATIONAL CHART



PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Kazem Alikhani, P.E., Chief Executive Officer

Project Assignment:

Project Manager/POC

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

8

Education: Degree(s)/Year/Specialization:

M.S./1984/Civil, H&H Engineering; B.S./1980/Mechanical Engineering

Active registration: Year first registered/discipline:

1992/Mechanical & Environmental Engineering/LA License No. 25073

Other experience and qualifications relevant to the proposed Project:

Mr. Alikhani has over 44 years of experience in public works projects including planning, design and construction management. As CEO of ECM, Mr. Alikhani serves as Project Manager for a variety of infrastructure projects, overseeing staff, budgets, timeline and working with owners, consulting firms and subconsultants to ensure timely and accurate project delivery. He spent the majority of his career working with the Jefferson Parish Department of Public Works responsible for all public works functions and overseeing an annual operating budget of \$200 million and a capital budget of over \$100 million. His oversight consisted of managing several departments that included drainage sewerage, water, streets, parkways, environmental, hazard mitigation, engineering and capital projects departments. In addition to managing all departments his responsibility also included managing engineering and construction management of capital improvements projects.

He has planned, designed and managed numerous projects from inception to completion including Southeast Louisiana Flood Protection Program (SELA), Road Bond Improvement Program, Sewer Capital Improvement Program, and many FEMA, HMGP, and CDBG-funded projects. Mr. Alikhani was the 2012 recipient for "Lifetime Achievement Excellence in Government" by the BGR.

Employment History:

- ECM Consultants, Inc., *Chief Executive Officer (2016-Present)*
- Jefferson Parish DPW, *Director of Public Works (2010-2016)*
- Jefferson Parish DPW, *Director of Drainage (2004-2010)*
- Jefferson Parish DPW, *Asst. Director of Water (1995-2004)*
- Jefferson Parish DPW, *Drainage Dept. Engr. (1982-1994)*
- Guillot & Vogt Engineering, *Engineer (1980-1982)*

The following are examples of his relevant experience:

Veterans Blvd. (South & North) Pump Stations, Jefferson Parish, LA: Mr. Alikhani serves as Project Manager for these two new drainage pump stations of capacities **60 cfs and 85 cfs respectively**. Veterans South includes 2-30 cfs vertical axial pumps and Veterans North includes 2-42.5 single speed vertical axial pumps. The projects include installation of concrete wet well structures for the pumps including intake, discharge piping crossing through the flood wall, gravity drainage system to divert flow from the drainage basins to the new pump stations. Work also included electrical service, control systems, backup generators and ATS installed above the 100 year Base Flood Elevation and SCADA systems (through subconsultant). As a part of the 408 permit requirements for USACE, work included full hydrologic evaluation of the 17th Street canal system under various scenarios to study the impact of the pump stations on the canal maximum operating water level (MOWL). The evaluation included developing synthetic hydrographs for each pump station and routing them through the canal using a HEC-RAS model. Also, additional geotechnical analysis was completed as required by the Corps for the permit process.

West Esplanade Drainage Pump Stations, Metairie, LA: Mr. Alikhani serves as Project Manager for this project involving design of a new drainage pumping stations with **capacity of 180 cfs** with 2-60 cfs and 2-30 cfs single speed vertical axial pumps. The project includes installation of concrete wet well structures for the pumps including intake, discharge piping crossing over the flood wall, electrical service, control systems, backup generators and ATS installed above the 100 year Base Flood Elevation and SCADA systems (through subconsultant). As a part of the 408 permit requirements for USACE, additional geotechnical analysis was completed as required by the Corps for the permit process.

Highway 45 Pump Station, Lafitte, Louisiana: Mr. Alikhani serves as Project Manager for this project involving design of a **30 cubic feet per second (CFS)** drainage pump station to serve the Lafitte community. The pump station will consist of two direct drive axial flow pumps, each with a capacity of **15 CFS**. The pump station will be located at the site of a smaller existing pump station, adjacent to it, on

LA Hwy 45 in Jefferson Parish, and will discharge into the bayou Baratavia. ECM provides complete professional engineering services including the civil, structural, mechanical, electrical, and instrumentation design of the project.

Coventry Pump Station, River Ridge, LA: Mr. Alikhani serves as Project Manager for this project involving design of a drainage pumping station, which when completed will have **3- 30 CFS submersible pumps with a total capacity of 90 CFS**. The structure is designed to accommodate a future **fourth 30 CFS pump** when the need arises. ECM has provided complete professional engineering design services including the civil, structural, mechanical electrical, and instrumentation design of the project. The pump selection was made based on the capacity requirement and calculated TDH. This project is designed to help reduce the chronic stormwater flooding experienced by the residents of the area bounded by the Mississippi river levee and Jefferson highway and from Rex Drive to Colonial Heights between these two boundaries. The proposed pump station will be constructed on a vacant parcel of land between Coventry Court and Lee Court on Jefferson Highway.

Taft/North Pump Station, Jefferson Parish, LA: As a Director of Drainage Department for Jefferson Parish, Mr. Alikhani commissioned a drainage study with hydraulic analysis that concluded installation of a drainage pump station was necessary to direct the stormwater from this area to the nearby outfall canal. Mitigation activity involved the development of a forced drainage plan. Mr. Alikhani assisted with the preparation of application for HMGP funding, benefit cost analysis and provided technical supporting documents. The application was approved, and the project was funded. A vacant lot was purchased to house a new three-pump system that will function alongside the existing system which will be tasked as a common collector system of sub-surface pipes to collect excess water from Turnbull, Belmont and Taft via 33rd Street and channel the water to the new pump station. The project benefits the area in Metairie, LA bounded by I-10 to the North, Neyrey Drive on the East, 41st Street on the South and Danny Park.

Suave Road. Pump Station Improvements, Jefferson Parish, LA: As Director of Public Works, Mr. Alikhani identified, planned, and oversaw engineering and construction for the neighborhood pump station in River Ridge, one of the first two Jefferson Parish owned drainage pump stations that discharge into the Mississippi River. The pump station included two axial flow pumps with capacity of **120 CFS** with 100% backup generator and SCADA System. The discharge pipe was directionally bored from Jefferson Parish Hwy to the Mississippi River.

Maplewood-Paillet Drainage Improvements, Jefferson Parish, LA: As Director of the Drainage Department for Jefferson Parish, Mr. Alikhani identified this \$11 million drainage improvement project. The area of Maplewood-Paillet was subject to flooding from storm events. An H&H study of the drainage basin revealed that drainage and flood mitigation improvements would benefit the neighborhood and reduce the severe repetitive loss (SRL) and repetitive loss (RL) and future flooding of structures. He assisted in preparing the application for HMGP funding and the determination of Benefit-Cost Analysis. The project received GOHSEP and HMGP approval and was funded through HMGP. A number of improvements were explored in the Study Phase and the Department ultimately decided on subsurface drainage improvements.

Elise & W. Metairie Drainage Pump Station, Jefferson Parish, LA: Mr. Alikhani identified, planned and oversaw this project involving drainage improvements to the Airline Park area between Camphor St. & W. Metairie Ave. The project involved installing larger drain lines on Elise and a new drainage pump station at the corner of W. Metairie and Elise Ave. in front of T.H. Harris Middle School. The pump station was designed with **two 40 CFS and one 60 CFS pumps** that discharge rainwater from Airline Park area into the W. Metairie Canal. The pump station design also included 100% generator power back up and SCADA System.

\$160 Million Various Pump Station Projects; Jefferson Parish, LA: As Director of Public Works, Mr. Alikhani identified, planned, and oversaw engineering and construction for a number of major drainage and related facility projects including: \$100M Storm proofing of all major pump stations; \$7M Estelle pump station rehabilitation & design and construction of new Westwego (Whitney-Barataria & Cousins) pump stations; construction of the first two Jefferson Parish \$10M Drainage Pump Stations that discharge into the Mississippi; \$4M new Upper Kraak Pump Station; construction of many more pump stations and back-up generators; \$7M Elmwood Pump Stations engines and gearbox replacement.

Midway Street Area Drainage Improvements, Jefferson Parish, LA: Under Mr. Alikhani's leadership, the Drainage Department of Jefferson Parish designed and funded construction of a small drainage pump station to improve the drainage system in this area. Areas of Charlotte, Marsha and Wildwood Drives within the drain basin have repeatedly suffered street flooding and flooding of homes during rain events. Once the pump stations were constructed the drainage subsurface needed to be upgraded in order to convey the storm runoff to the station. Mr. Alikhani identified this \$3 million subsurface drainage improvement project for HMGP funding. He assisted with the application preparation, Benefit-Cost Analysis and provided technical supporting documents.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT

Name & Title:

Ujjal DasGupta, P.E., President

Project Assignment:

Principal-In-Charge

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

29

Education: Degree(s)/Year/Specialization:

B.S./1968/Civil Engineering

Active registration: Year first registered/discipline:

1982/Civil Engineering/LA License No. 19849

Other experience and qualifications relevant to the proposed Project:

Mr. DasGupta has over 54 years of experience in project management, civil and structural engineering design, construction management, and construction quality assurance services. He has been responsible for design engineering and construction management services for many projects totaling over several billion dollars in costs for various local, state, and federal agencies. As Principal in Charge, Mr. DasGupta will be responsible for overall management of all engineering designs, preparation of plans and specifications, construction administration and sub-consultant management for this project.

Employment History:

- ECM Consultants Inc., LA, *President (1995-to date)*
- C&S Consultants, Inc., LA, *Vice President (1983-1995)*
- Pepper & Associates & Kiddie Consultants, LA, *Sr. Engineer (1982-1983)*
- McDermott, Inc., LA, *Sr. Structural Engineer (1980-1982)*
- Dunbar & Dickson, TX, *Project Engineer (1976-1980)*
- Public Works Department, India, *Assistant Engineer (1968-1976)*

The following are examples of his relevant experience:

Veterans Blvd. (South & North) Pump Stations, Jefferson Parish, LA: Mr. DasGupta serves as Principal in Charge for these two new drainage pump stations of capacities **60 cfs, and 85 cfs respectively**. Veterans South includes 2-30 cfs vertical axial pumps, Veterans North included 2-42.5 vertical axial flow pumps. The projects include installation of concrete wet well structures for the pumps including intake, discharge piping crossing the through the flood wall, gravity drainage system to divert flow from the drainage basins to the new pump stations. Work also included electrical service, control systems, backup generators and ATS installed above the 100 year Base Flood Elevation and SCADA systems. As a part of the 408 permit requirements for USACE, work included full hydrologic evaluation of the 17th Street canal system under various scenarios to study the impact of the pump stations on the canal maximum operating water level (MOWL). The evaluation included developing synthetic hydrographs for each pump station and routing them through the canal using a HEC-RAS model. Also, additional geotechnical analysis was completed as required by the Corps for the 408 permit process.

Westwego No. 1 Drainage Pump Station, USACE -New Orleans District, Jefferson Parish, LA: Mr. DasGupta served as project manager for this project. This project was a part of the program to stormproof existing pump stations in Jefferson Parish, it was intended that pump stations be upgraded to resist damage from hurricane force winds. After initial investigation it was determined that Stormproofing this station is practical and cost effective because of its age, condition, size and type of equipment. Corps decided to change of scope of this project to design of a new pump station. The new Station design included three (3) direct drive axial flow pumps, **each with a capacity of 125 cfs for a total station capacity of 375 cfs** for high flow and low head conditions. The intake structure, intake screens with screen cleaning and debris removal systems; fiber optic connectivity to Westwego No. 2 Pump Station safe house for remote control and monitoring; CCTV camera system; electrical service with emergency generator.

West Esplanade Drainage Pump Stations, Metairie, LA: Mr. Dasgupta serves as Principal for this project involving design of a new drainage pumping stations with **capacity of 180 cfs** with 2-60 cfs and 2-30 cfs single speed vertical axial pumps. The project includes installation of concrete wet well structures for the pumps including intake, discharge piping crossing over the flood wall, electrical service, control systems, backup generators and ATS installed above the 100 year Base Flood Elevation and SCADA systems (through subconsultant). As a part of the 408 permit requirements for USACE, additional geotechnical analysis was completed as required by the Corps for the permit process

Storm Proofing Cousins and Elmwood Pump Stations, Jefferson Parish, LA, USACE-New Orleans District, Contract No. W912P8-07-D-0031, T.O. 0029. Mr. Dasgupta served as Project Principal and POC for this project. He was involved in contract management, quality assurance management for design services and engineering during construction (EDC), for these pump station projects. The purpose of the project was to provide storm proofing for building envelopes involving architectural and structural engineering, and ancillary systems including discharge piping, generators, fuel tanks, fuel purification systems, electrical and control systems, SCADA system, etc. This is to achieve reliable systems and ensure sustained operation during storm events. He performed review of preliminary and final plans for quality assurance of the deliverables

Expansion of Drainage Pumping Station No. 11, Sewerage & Water Board of New Orleans, Orleans Parish, LA: Mr. DasGupta served as Project Engineer for this project that included pump station structure and building adjacent to the existing pump station intake and discharge basins including improvements to intake and discharge channels for discharge to the Gulf Intracoastal Waterway. Scope included the installation of the **two (2) - 500 cfs horizontal shaft axial flow propeller pumps**, drive motors, speed reducers, controls, vacuum priming pumps, a back-up diesel generator and fuel tanks, demolition and removal of the existing mechanical screen cleaners and furnishing and installing new mechanical screen cleaners for the existing station and the addition. He performed civil and hydraulic analysis to determine backwater profile of the intake canal, design for the improvements to the canals as well as work associated with intake and discharged basins involving concrete retaining walls and foundation and slabs and related work.

West Closure complex Pump Station Design and construction, Jefferson & Orleans Parishes, LA, USACE- Rock Island District. Mr. DasGupta served as Contract Manager and POC for this project for which ECM provided Project Management services as managing member of a \$90 million (Fees) IDIQ Joint Venture contract with USACE to support USACE-Rock Island District for the RINOS program. The Rock Island District assumed responsibility for four major projects, involving 26 construction contracts, worth over \$1 Billion. ECM in association with its subconsultant, Stanley Consultants, provided technical and project management services for this project. This included coordination with designer, contractor and USACE-RI; reviewing Engineer's designs for compliance with work scope, schedule, budget and sound engineering. Scope included meeting with contractor to solve engineering issues, construction scheduling, cost and constructability issues etc. This project involved design and construction of a 225-foot wide sector gate, a **18,640 cfs drainage pumping station**, the largest pump station in USA, including seven (7) large sluice gates, floodwalls and levees.

Expansion to Drainage Pumping Station No. 15, Sewerage & Water Board of New Orleans, Orleans Parish, LA: Mr. DasGupta served as Project Engineer and performed hydraulic computations, civil and structural designs, and preparation of plans and specifications for the addition of a **1000 cfs pump for the existing station**. He performed hydraulic computations to verify pump station capacity requirements based on runoff from the watershed and water surface profile. He designed the pump station structure for a single 1000 cfs horizontal shaft axial flow propeller pump, drive motor, speed reducer, vacuum priming pumps, a back-up diesel generator and fuel tanks, demolition and removal of the existing mechanical screen cleaners and furnishing and installing new mechanical screen cleaners for the addition. Work included design of rectangular concrete intake and discharge tubes, intake and discharge basins, intake and discharge channel improvements and related work.

Storm Proofing All Jefferson Parish Pump Stations, USACE New Orleans District, Jefferson Parish, LA: Mr. DasGupta served as Project Principal of this contract that included numerous Task Orders involving planning, engineering design, preparation of final construction plans and specifications, EDB, EDC, construction management and construction inspection services for this **\$330 million projects involving pump station storm proofing and related upgrades throughout Jefferson Parish**. The purpose of these projects was to achieve reliable and redundant systems in order to ensure sustained operation during storm events. Design elements included design elements such as concrete foundations, new roofs, exterior wall reinforcement, ventilation, electrical wiring, lighting, lightning protection, remote monitoring and control system upgrades, new level sensing controls, new generators and fuel tanks, fuel purification system, discharge piping, intake screens, screen cleaning system with debris removal system, CCTV camera system, SCADA system etc.

Two Drainage Pump Stations, Valasco Drainage District, Brazoria County, TX: Mr. DasGupta served as Project Engineer and was responsible for design of a **350 cfs** drainage pump station using a single vertical turbine pump and a **1,500 cfs** drainage pump station using six 250 cfs vertical turbine pumps. He also designed an energy dissipating structure for the 350 cfs pump station to reduce discharge velocity from 18 fps to 2 fps to satisfy USACE-Galveston District's discharge permit requirement for the navigational canal.

Conceptual Design for Hydrologic Systems for Outfall Canals at 17th Street, Orleans Avenue, and London Avenue, US Army Corps of Engineers-New Orleans District, Orleans Parish, LA: Mr. DasGupta served as Project Manager for this project which involved establishing performance driven design criteria for site selection including analyses, canal hydraulic reviews, incorporation of existing reports and available data, and interactive meetings with sponsors. These scopes of work provided a progressive, intelligent development process of the planning of the project. ECM also reviewed the government furnished numerical hydraulic model developed by the Corps using HEC-HMS and unsteady HEC-RAS numerical models of the Orleans East Basin to handle the basin inflow as well as the pump function and the open channel flow through all pertinent hydraulic structures. Based on these reviews, ECM provided recommendations for model revisions and usage in addition to facilitating modeling workshops.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Sudhir Mehta, P.E., Senior Structural Engineer****Project Assignment:****Project Engineer****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****6****Education: Degree(s)/Year/Specialization:****M.S./1972/Civil Engineering; B.S./1970/Civil Engineering****Active registration: Year first registered/discipline:****1980/Civil Engineering/LA License No. 18950****Other experience and qualifications relevant to the proposed Project:**

Mr. Mehta has 49 years of experience in the design, analysis and construction of major hydraulic structures such as concrete canals, concrete box canal, Drainage pumping stations, floodgates and other flood control structures for multiple USACE districts, states and municipalities.

Employment History:

- ECM Consultants Inc, LA, Senior *Structural Engineer* (2018 to date)
- Brown, Cunningham and Gannuch, Senior *Structural Engineer/Project Manager* (2006-2018)
- URS Corp, Senior *Structural Engineer/Project Engineer* (2005-2006)
- Pepper & Associates, Senior *Structural Engineer/Project Manager* (1975-2005)
- S E Huey Co Consulting Engineers, *Project Engineer* (1973-1975)
- Linfield and Hunter, Inc., *Engineer in Training* (1971-1973)

The following are examples of his relevant experience:

W. Esplanade Ave. Drainage Pump Station, Jefferson Parish, LA: Mr. Mehta is providing structural engineering design for this new **180 CFS** drainage pumping station located at the east end of the west esplanade canal. The station will house two (2) 60 CFS each, and two (2) 30 cfs axial flow vertical pumps. The discharge of the station will be in the 17th street canal located approximately 150 ft east of the pump station. Mr. Mehta performed calculations of the system head loss and the NPSHA; layout of the pump station including geometrics of the suction chambers based on the pump selected and in conformance with Hydraulic Institute standards; layout of the suction and discharge piping; design of temporary earth retaining structures for the excavation based on the geotechnical investigation and analyses (done by others); structural analyses and design of reinforced concrete timber pile supported suction basin including the design of the pump floor; design of the trash screen supports; structural analyses and design of the generator station foundation. Timber piles will be used to support the generator slab; design of the pipe supports for 36-in diameter steel discharge pipes. Concrete saddles supported by piles will be used for the discharge pipe supports; design of general site layout; preparation of project specifications; coordinating with various state. Local and private owners of facilities whose interest may be affected by the construction of the project; coordinating with other engineering disciplines.

Highway 45 Pump Station, Lafitte, Louisiana: Mr. Mehta serves as Project Engineer for this project involving design of a **30 cubic feet per second (CFS)** drainage pump station to serve the Lafitte community. The pump station will consist of two direct drive axial flow pumps, each with a capacity of **15 CFS**. The pump station will be located at the site of a smaller existing pump station, adjacent to it, on LA Hwy 45 in Jefferson Parish, and will discharge into the bayou Barataria. Project Engineer he was responsible for overseeing and coordinating professional engineering services including the civil, mechanical, electrical, and instrumentation design of the project, he has performed complete structural design and responsible for review of plans and specifications for quality assurance.

Drainage Pumping Station No. 1, Sewerage & Water Board of New Orleans, New Orleans, LA: Mr. Mehta served as Structural Engineer for planning, design and construction of this project that consisted of an addition of two horizontal axial flow pumps and equipment to the existing pump station. The project included modifications to existing discharge basin and replacement of an existing suction basin with a new suction basin based on an existing hydraulic model study, and an addition to the existing suction canal and replacement of approximately 2000 LF of existing suction canal with a new two-cell reinforced concrete box culvert. The project also

included the addition of a new brick and copper roof building to house the new pumps, and modifications and redesign of roadways to accommodate extension of pump station for the new pumps

Drainage Pumping Station No. 19, Sewerage & Water Board of New Orleans, New Orleans, LA: This pump Station No. 19 was a multi-phase, multi-million-dollar project involving a multi-cell box culvert suction canal and structural steel and reinforced masonry pump station building with copper roof to house **three 11-foot 1200 cfs horizontal pumps and two 7-foot 250 cfs vertical pumps**. Mr. Mehta served as Structural Engineer for design and construction administration of this project that consisted of an addition of a 1000 cfs horizontal axial flow pump and equipment. The project included discharge basin and suction basin a new suction basin pump station structure and pump building. This project included installation of sheet pile self-sustaining and braced cofferdams, installation of flood and sluice gates, installation of timber piles, excavations, dewatering, placement of concrete and installation of the pumps.

Veterans Boulevard Drainage Pump Stations (South & North), Jefferson Parish, Metairie, LA: Mr. Mehta is performing Independent Technical Reviews (ITR) and structural engineering design for modifications to the new T-wall with access gates for these two new drainage pump stations. The project includes a concrete wet well structures with intakes for installation of 2-30 cfs vertical axial flow pumps at Veterans South and 2-42.5 cfs vertical axial flow pumps at Veterans North, for a total capacity of **60 cfs** for the Veterans South, and **85 cfs** at Veterans North. Project includes steel discharge pipe manifolds (30" and 36" respectively) crossings through the existing flood wall, replacement of a section of the I-Wall with T-wall with access gate, and new gravity drainage system for diversion of flow from the drainage basins to the new pump stations. This project is currently under construction, and he is providing construction administration and supervision of resident inspection services.

Drainage Pumping Station No. 1, Sewerage & Water Board of New Orleans, New Orleans, LA: Mr. Mehta served as Structural Engineer for planning, design and construction of this project that consisted of an addition of two horizontal axial flow pumps and equipment to the existing pump station. The project included modifications to existing discharge basin and replacement of an existing suction basin with a new suction basin based on an existing hydraulic model study, and an addition to the existing suction canal and replacement of approximately 2000 LF of existing suction canal with a new two-cell reinforced concrete box culvert. The project also included the addition of a new brick and copper roof building to house the new pumps, and modifications and redesign of roadways to accommodate extension of pump station for the new pumps

Citrus Drainage Pump Station, Sewerage & Water Board of New Orleans, New Orleans, LA: This project included removal of an existing pump station and construction of a new station at the same site. Mr. Mehta served as Structural Engineer for design and construction administration of this project that consisted of an addition of a 1000 cfs horizontal axial flow pump and equipment. The project included discharge basin and suction basin a new suction basin pump station structure and pump building. This project included installation of sheet pile self-sustaining and braced cofferdams, installation of flood and sluice gates, installation of timber piles, excavations, dewatering, placement of concrete and installation of the pumps.

Widening of Florida Ave. Drainage Canal, Sewerage & Water Board of New Orleans, New Orleans, LA: He served as Project Engineer/Project Manager for this SELA funded project to widen the canal from Pump Station - D at Peoples Ave to the intake of Pump Station No.19 at Industrial Canal. It was a multiphase project with an estimated construction cost of more than \$500 million. The purpose of the project was to provide larger cross-sectional area to facilitate faster delivery of storm water to the then newly built intake of DPS no. 19. The structure consisted of pile supported U frames as well as box culverts along its approximately 6000 ft length.

Fronting Protection at Bonnabel and Suburban Pumping Stations, USACE New Orleans District, Jefferson Parish, LA: Mr. Mehta served as Project Manager/Structural Engineer for this project to add new surge protection structures which consisted of gated structures at the discharge end of the water passages of the existing horizontal pumps and T-walls at vertical pump discharge. Existing steel discharge pipes of the vertical pumps were extended through the T-wall structures. Also included were new T-walls that tie the fronting protection structures on both sides of the discharge channel to the existing flood protection levees. Cost: \$8.5 million.

Broad Street Drainage Pump Station, Sewerage & Water Board of New Orleans, New Orleans, LA : This project involved the addition of two horizontal pumps and equipment to existing station including equipment, suction basin, and new two-cell concrete box canal. Mr. Mehta served as Structural Engineer for design and construction administration of this project that consisted of an addition of 2-1250 cfs, 11-foot horizontal pump and equipment. The project included pump station structure and addition to existing pump building. This project included installation of sheet pile self-sustaining and braced cofferdams, installation of flood and sluice gates, installation of timber piles, excavations, dewatering, placement of concrete and installation of the pumps.

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

Sunina Shrestha, P.E., Engineering Manager

Project Assignment:

Project Manager; Civil and Hydraulic Design

Name of Firm with which Associated:***ECM Consultants, Inc.*****Years' experience with this Firm:**

16

Education: Degree(s)/Year/Specialization:

M.S./2008/Civil Engineering

Active registration: Year first registered/discipline:

2013/Civil Engineering/LA License No. 37901

Other experience and qualifications relevant to the proposed Project:

Ms. Shrestha has **16 years of experience** in engineering design and analysis for roadways, drainage, utilities, bridges, pump stations and water resources projects. Her experience includes preparation of Right-of-Way Maps using GIS, utilities design using GIS, hydrologic and hydraulic analysis and modeling for drainage basins, storm water retention facilities, canals, culverts, and site development. Ms. Shrestha is trained and experienced in the use of GIS (ArcView 9), HEC- RAS, HEC- HMS, SWAT, AutoCAD, AutoCAD Land Development, Civil 3D, SAP 2000, and WINSLAMM.

Employment History:

- ECM Consultants Inc., LA, *Civil Engineer (2009-to date)*
- UAH, *Graduate Research Assistant in Civil Engineering (2007)*
- RITI Consultancy Pvt. Ltd., Nepal, *Field Engineer (2005)*

The following are examples of her relevant experience:

Veterans Boulevard Pump Stations (North & South), Metairie, Jefferson Parish, , LA: Ms. Shrestha provided civil and H&H engineering and subsurface drainage design services for these two new drainage pump stations with maximum pumping capacity of **60 CFS and 85 cfs** using 2-30 cfs and 2-42.5 cfs axial flow pumps respectively. She was responsible for coordination with all inhouse engineers, CAD Technicians, subconsultants, Jefferson Parish and US Army Corps of Engineers representatives. These drainage pump stations included installation of concrete wet well structures with pumps, discharge force main systems crossings through the concrete flood walls, gravity drainage system to divert flow from the drainage basins to the new pump stations. Work also included electrical service, control systems, backup generators and ATS installed above the 100 year Base Flood Elevation and SCADA systems (through subconsultant). As a part of the 408 permit requirements for USACE, work included full hydrologic evaluation of the 17th Street canal system under various scenarios to study the impact of the pump stations on the canal maximum operating water level (MOWL). The evaluation included developing synthetic hydrographs for each pump station and routing them through the canal using a HEC-RAS model.

Coventry Court Drainage Pump Station, Jefferson Parish, LA: Ms. Shrestha serves as Project Engineer for this project involving design of a drainage pumping station, which when completed will have **3- 30 CFS submersible pumps with a total capacity of 90 CFS**. The structure is designed to accommodate a future **fourth 30 CFS pump** when the need arises. Scope of this project includes complete engineering design for the civil, structural, mechanical, electrical, and instrumentation for the project. The pump selection was made based on the capacity requirement and calculated TDH. This project is designed to help reduce the chronic stormwater flooding experienced by the residents of the area bounded by the Mississippi river levee and Jefferson highway and from Rex Drive to Colonial Heights between these two boundaries. The proposed pump station will be constructed on a vacant parcel of land between Coventry Court and Lee Court on Jefferson Highway. She is responsible for coordination with inhouse and consultants engineers, Jefferson Parish and USACE for permits. She reviewed gravity drainage system and designed several alternates and responsible for preparation of plans, specifications and cost estimate (PS&E) for the new drainage pump station and the discharge piping crossing over the Mississippi River Levee and Battue into the Mississippi river.

W. Esplanade Pump Station, Jefferson Parish, LA: As Project Engineer, Ms. Shrestha provided hydrologic and civil engineering design for this new drainage pump station that discharges into the 17th Street Canal. The maximum pumping capacity for this pump station is **180 CFS** using two (2) 60 CFS each, and two (2) 30 cfs axial flow vertical pumps located at the

east end of the west esplanade canal. The discharge of the station will be into the 17th street canal located approximately 150 ft east of the pump station. The drainage pump station includes installation of concrete wet well structures with pumps, supported on Timber piles foundation, 36" steel discharge force main systems crossings over the concrete flood walls supported on a pipe rack over the hurricane protection flood wall and levees. She was involved in coordination with inhouse and consultant's engineers, owner and the USACE. Project includes the power system and emergency diesel generator with automatic transfer switch, control systems with automatic operations and sequencing, integrated level control systems, and remote monitoring with SCADA. She was involved in a full hydrologic evaluation of the canal system under various scenarios to study the impact of this pump station and Veterans (North and South) pump stations on the canal maximum operating water level (MOWL). The evaluation included developing synthetic hydrographs for each pump station and routing them through the 17th street canal using a HEC-RAS model.

California Canal Drainage Improvement, Jefferson Parish, LA: Ms. Shrestha served as the project manager for the California Canal Drainage improvement project. California Canal conveys storm water runoff from a portion of Marrero. The canal is bounded on the west side by commercial and industrial establishments and on the east side by a large subdivision with approximately 35 feet of berm from top of the banks to the property lines. The scope of the project include concrete slope paving of the sides and the canal bottom. The purpose of the improvements is to stabilize the banks and stop the erosion of the side slopes and to improve the channel hydraulic conveyance and efficiency. The project is designed for a 10-year rainfall event.

Napoleon Avenue Box Culvert, SWBNO/USACE; New Orleans, LA: Ms. Shrestha provided civil engineering design for the \$55 million reconstruction project, in connection with construction of a drainage box culvert. The scope included design and preparation of plans, specifications, and estimates for roadway removal and reconstruction; hydraulic analysis to determine size of catch basins and drain lines; replacement of all water and sewer mains, including service lines within the project limit; new subsurface drainage including tie-in of all culverts into new concrete box canal.

Severn Avenue Corridor Improvements, Jefferson Parish, DPW, Jefferson Parish, LA: Ms. Shrestha is serving as project engineer for this \$10 million project involving preparation of plans and specifications for the replacement of existing sidewalks and driveway aprons with new 6-foot wide sidewalk and driveway aprons, corridor improvement to facilitate new bicycle lane, **replacement/upgrade of subsurface drainage systems.**

City Park Group - A, New Orleans, LA: Ms. Shrestha supervised the civil engineering design for this \$3.2 million City Park Group - A project. The project scope includes full reconstruction of intersections at Taft Place, Allard Blvd and St John Court and rehabilitation of other streets in City Park Group A project area. The project included design and preparation of plans, specifications, and cost estimates (PS&E); hydraulic analysis for drainage design; reconstruction of PCC roadway including all roadway intersections and sidewalks with ADA ramps, new drainage system and replacement of all water and sewer mains. Some streets under this project area are in Parkview Historic District and the design for these streets was done conforming to the FEMA guideline for the Historic Area.

Drainage system for the Glen Oaks Drive, City of Baton Rouge DPW, Baton Rouge, LA: Ms. Shrestha provided engineering services for this \$10 million reconstruction project that included design for construction of a three-lane concrete curb and gutter roadway, with 6' sidewalks and subsurface drainage improvements along a 1-mile existing roadway. The project also includes improvements to several intersections, two 8' x 8' concrete box outfall structures, along with design recommendations, and relocation of utilities, sewer and water lines.

Master Drainage Plans for Ward 1 and Ward 3, Calcasieu Parish Police Jury, Calcasieu Parish, LA: Ms. Shrestha conducted GIS, HEC-RAS, and HEC-HMS for all phases, and contributed to the development of a master drainage plan. Phase I of this project included a detailed hydrologic and hydraulic modeling of Marsh Bayou, located near the northeast corner of the Ward I drainage basin and several other tributaries on the southern end of the Ward 1 Drainage Basin. Phase II involved hydrologic and hydraulic modeling of the drainage basin at the McNeese Street Extension, which will link Highway 14 and Highway 397. The final phase involved a storm water master plan and drainage improvement analysis for Choupique-Sulphur Basin.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****John Rasi, P.E.,- Senior Hydraulic Engineer****Project Assignment:****Senior Hydraulic Engineer****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****12****Education: Degree(s)/Year/Specialization:****B.S./1978/Civil Engineering****Active registration: Year first registered/discipline:****1983/Civil Engineering/LA License No. 20841****Other experience and qualifications relevant to the proposed Project:**

Mr. Rasi has over 41 years of hydraulic and hydrologic experience that includes a 25-year career with LADOTD and a 4-year career with Louisiana Department of Natural Resources (Coastal Restoration Division). He is highly experienced in the use of HEC-RAS, HEC-HMS, SWMM, DAMBREAK, and FLOODWAVE computer models for hydrologic and hydraulic analyses of watersheds.

Employment History:

- ECM Consultants Inc., LA, *Sr. Hydraulic Engineer (2012-to date)*
- Louisiana Department of Transportation LADOTD, *Hydraulic Manager (2002-2011)*
- Louisiana Department of Transportation, LADOTD, *Construction Grant and Permit Engineer (1994-2002)*
- Louisiana Department of Natural Resources (Coastal Restoration Division), *Hydraulic Engineer (1990-1994)*
- Louisiana Department of Transportation, LADOTD, *Hydraulic Engineer, (1983-1990)*

The following are examples of his relevant experience:

Veterans Blvd. (South & North) and West Esplanade Pump Stations, Jefferson Parish, LA: Mr. Rasi performed hydraulic analysis needed for obtaining permits from USACE for these three pump stations that will discharge into 17th Street Canal. As a part of the permit for USACE, he performed hydrologic evaluation of the canal system under various scenarios to study the impact of the three pump stations on the canal maximum operating water level (MOWL). The evaluation included developing synthetic hydrographs for each pump station and routing them through the canal using the Corps provided Unsteady HEC-RAS computer model of the 17th Street. ECM was required by the Corps to show that these stations, if built, would not cause flooding within this major discharge canal which services a significant drainage basin located in New Orleans. Mr. Rasi developed discharge hydrographs for each pump station and routed each singularly and as a group into the 17th Street Canal as it was passing its peak flow using the unsteady Corps HEC-RAS computer model. Mr. Rasi successfully showed that these pump stations would not cause any issues regardless of how they were operated either together or separately.

Hydraulic Analysis for Strain Road Bridge Replacement, Baton Rouge/East Baton Rouge Parish, LA; Senior Hydraulic Engineer. Reviewed preliminary design and hydraulic analysis of Strain Road, noting the area frequently flooded due to backwater from the Amite River. Mr. Rasi used a USGS Gage Station on the Amite River at US 190, about two miles upstream of I-10, and spatially moved the Discharge vs. Stage hydrograph downstream. He then used this spatially corrected rating curve to run several profiles for 25, 50 and 100-year storm events with and without backwater to determine if raising the road several feet would cause flooding upstream. It only caused a modest elevated water surface for the 100-year design event without backwater.

H&H Analysis for Sim's Creek Watershed, Tangipahoa Parish, LA: Mr. Rasi is serving as H&H engineer for this project involving Hydraulic and Hydrologic analysis, modeling and investigated the causes of the flooding that occurred in August 2016 in Haven Subdivision. He performed the site visit, performed hydraulic analysis and modeling using SWMM-5 Surface Modeling System for analyses of multiple hydrologic events in this study area to determine the required drainage improvements for the subdivision

Hydraulic Manager, LADOTD Office of Public Works; Baton Rouge, LA: Mr. Rasi served as Hydraulic Manager and was responsible for managing groups of engineers & engineering technicians in the review and design of projects from the Port Priority Program, the Statewide Flood Program, the Dam Safety Program, and Federal projects funded in part by the State of Louisiana. He supervised engineers in hydraulic design, drainage studies, dam breach analysis, and pump station design. He was also responsible for review and approval of levee board permits within Louisiana. Additionally, he supervised flood plain specialists who were responsible for enforcing FEMA Flood Plain Laws & Regulations.

Watershed Drainage Study, St. Bernard Parish, LADOTD Office of Public Works: Mr. Rasi served as lead hydraulic engineer for a drainage study where he set-up two pump drainage systems using SWMM software. He developed all the modeling for this project, which solved localized flooding challenges in the watershed.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Capretto, P.E., Civil Engineer

Project Assignment:

Civil Engineer

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

10

Education: Degree(s)/Year/Specialization:

B.S./2009/Civil Engineering

Active registration: Year first registered/discipline:

2014/Civil Engineering/LA License No. 38641

Other experience and qualifications relevant to the proposed Project:

Mr. Capretto has over **16 years of experience** in roadways, drainage, and utilities projects. This includes pavement design, horizontal and vertical roadway alignments designs, storm water drainage and utility system design. His experience also includes project management and preparation of PS&E for roadways and drainage systems for urban, rural highways and streets projects.

Employment History:

- ECM Consultants Inc., LA, *Civil Engineer (2014-to date)*
- Atlas Engineering, Inc./S&B Infrastructure, Ltd., *Civil Engineer (2008-2014)*

The following are examples of his relevant experience:

Veterans Blvd. Drainage Pump Stations (South & North), Jefferson Parish-DPW, Jefferson Parish, LA: Mr. Capretto is performing civil engineering design and prepared detailed construction plans, specifications and estimates (PS&E) for construction of these two drainage pump stations with maximum pumping capacity of **60 CFS and 85 cfs** using 2-30 cfs and 2-42.5 cfs axial flow pumps respectively. These drainage pump stations included installation of concrete wet well structures with pumps, two 30" and 36" discharge manifold piping systems that discharge into the 17th street Canal crossings through the hurricane protection concrete flood walls. He performed hydraulic analysis for the subsurface gravity drainage system to divert flow from the basins to the new pump stations. He also coordinated with electrical subconsultant for the Entergy power supply and emergency diesel generators with automatic transfer switches and fuel storage tank. Work also included control systems, and SCADA systems.

W. Esplanade Pump Station, Jefferson Parish, LA: Mr. Capretto is providing civil engineering design for this new **180 cfs** drainage pump designed for 2-60 cfs and 2-30 cfs vertical axial flow pumps. Work included pump station wet well structure with intake basin and trash screen, steel discharge piping over the floodwall discharging to 17th street canal. He was responsible for coordination with subconsultant for the pump station control systems with automatic operations, integrated level control systems, and remote monitoring with SCADA.

Drainage Improvements & Water Line Replacement for FEMA Recovery Roads, St. Bernard & City Park Neighborhoods, City of New Orleans, LA: Mr. Capretto provided civil design services for FEMA eligible repairs in the St. Bernard and City Park neighborhoods. Work included drainage improvements, replacement of water lines, roadway rehabilitation involving base repairs, asphalt leveling course and overlay, curb and sidewalk repairs.

Brine Disposal Pump Replacement at Bryan Mound Site, U.S. DOE Strategic Petroleum Reserve, Freeport, TX: Mr. Capretto served as design engineer for the replacement of two brine disposal pumps with 1500 hp motors with smaller pumps with 350 hp each, which were appropriate for the operational need. These new pumps reduced energy costs as well as reduce the wear and tear on the brine disposal piping due to substantial reduction of pump discharge velocity.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Missy Reynolds, E.I., Project Manager

Project Assignment:

Civil/Hydraulic Engineering Design

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

7

Education: Degree(s)/Year/Specialization:

B.S./1994/Civil Engineering

Active registration: Year first registered/discipline:

1995/Civil Engineering/ E.I. LA No. 16639

Other experience and qualifications relevant to the proposed Project:

Ms. Reynolds has 27 years of experience in project management , engineering design and construction engineering for construction of roadways, **canals and drainage structures**, water facilities, and land development projects. She has provided oversight for civil and **hydraulic studies**, reconstruction, new construction and other improvements across the Greater New Orleans region.

Employment History:

- ECM Consultants Inc., LA, *Deputy Program Manager (2017-present)*
- Barowka & Bonura Engineering & Consultants, LLC, LA *Senior Project Manager/Construction Manager (2008-2017)*
- URS Corporation, LA, *Project Manager (1998-2008)*
- Frederic R. Harris, *Project Engineer (1996-1998)*
- C&S Consultants, *Project Engineer (1994-1996)*

Congressman Hebert Canal Widening & Stabilization, St. Bernard Parish, LA: Ms. Reynolds served as Project Manager, examining existing **drainage capacity and bank stabilization** for a major outfall canal in St. Bernard, which was adjacent to residences and schools. She utilized Autodesk **SWMM** to size the approximately 3,000 LF proposed earthen canal, box culverts, and concrete U-channel in accordance with the Parish Drainage Master Plan. The design also included relocation of several subsurface utilities, tying in existing drainage culverts, and roadway rehabilitation.

Waggaman Hydraulic Study, Jefferson Parish, LA: Ms. Reynolds performed a hydrologic study for several subdivisions in Waggaman and South Kenner. LA. Each subdivision was approximately 200-600 acres and included residential, industrial and unimproved areas. Ms. Reynolds utilized the Storm Water Management Model (**EPA SWMM**) to evaluate existing conditions and performed hydrologic and hydraulic design model for each subdivision and recommendation for drainage improvements to reduce flooding. She also presented a detailed Hydraulic and Hydrology Report to show existing conditions and proposed improvements.

Cypress Park & Erindale Subdivisions Hydraulic Study, St. Tammany Parish, LA: Ms. Reynolds performed a hydrologic study for two residential subdivisions utilizing Autodesk Storm Water Management Model (**EPA SWMM**) to evaluate the existing drainage capacities and contributions to bayous. She developed a hydrologic and hydraulic design model for each area and presented a detailed report showing existing and proposed design conditions along with associated probable construction costs.

Program and Construction Management for 2017 Jefferson Parish Road Bond Project, DPW- Jefferson Parish, LA: Ms. Reynolds is serving as Deputy Project Manager for the 2017 Jefferson Parish Road Bond Project on the East bank of Jefferson Parish. This project currently has **\$208 million** of construction projects and includes the design and construction of **roadways**, bridges, **drainage**, utilities and pedestrian bike paths. Ms. Reynolds is responsible reviewing consultants' PS&E and coordinating with local and State agencies. Her duties include working with several consulting firms to resolve design and constructions issues and coordinating with private businesses and utilities including railroad companies. Ms. Reynolds reviews contractor submittals to ensure conformity, resolves construction issues, performs site visits and reviews testing lab reports and performed substantial completion and final walk-throughs for the completed projects.

Jean Lafitte Drain Line Replacement, St. Bernard Parish, LA: Ms. Reynolds designed 4,500 LF of major drain line and an outfall in conjunction with the Parish Drainage Master Plan and FEMA funding guidelines. The plans also included design for several large junction boxes, catch basins, roadway restoration, and redirection of smaller drain lines to intercept runoff and tie directly into the junction boxes.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Neil Logan, P.E., Senior Structural Engineer****Project Assignment:****Structural Design****Name of Firm with which Associated:*****ECM Consultants, Inc. (Contract)*****Years' experience with this Firm:****23****Education: Degree(s)/Year/Specialization:****B.S./1961/Civil Engineering****Active registration: Year first registered/discipline:****1974/Civil Engineer/LA License No. 14607****Other experience and qualifications relevant to the proposed Project:**

Mr. Logan has over 53 years of experience as a structural engineer. His project experience includes major subsurface drainage culverts, drainage pumping stations, roadways, bridges, buildings, and industrial facilities.

Employment History:

- ECM Consultants Inc., LA, *Sr. Structural Engineer (2001-to date)*
- N-Y Associates, *Structural Engineer (Contract) (1994-2001)*
- N-Y Associates, *Structural Engineer (1976-1991)*

The following are examples of his relevant experience:

Veterans Blvd. (N&S) Pumping Stations, Jefferson Parish, LA: Mr. Logan provided structural engineering design and preparation of plans and specifications for two new drainage pump stations for Jefferson Parish Dept. of Capital Projects. The project includes two pump stations at Veterans Blvd. at capacities of **60 cfs and 85 cfs**. The project includes a concrete wet well structures with intakes for installation of 2-30 cfs vertical axial flow pumps at Veterans South and 2-42.5 cfs vertical axial flow pumps at Veterans North. The structural design of the pump station involved the analyses and design of the pile-supported reinforced concrete intake structure with trash screen, wet well for housing pumps, steel discharge pipe manifolds (30" and 36" respectively) on pile supported concrete pipe supports and crossings through the existing hurricane protection flood wall, involving design for replacement of sections of the I-walls with T-walls.

Coventry Pump Station, River Ridge, LA: Mr. Logan provided structural engineering design for this project involving design of a drainage pumping station, with total capacity of **90 cfs at present and 120 cfs in future with 3- 30 CFS submersible pumps and a future fourth 30 CFS pump** when the need arises. The Hydraulic Institute's guidance and recommendations were followed in the design of the suction basin and the suction chambers to prevent the formation of subsurface and surface vortices. The inflow into the pump station will be screened using a trash screen to keep the major debris out of the suction chambers. The structural design of the pump station entails the analyses and design of the pile-supported reinforced concrete intake structure with trash screen, wet well, discharge piping over the levee, and protection dolphins designed for ship impact. This project is designed to help reduce the chronic stormwater flooding experienced by the residents of the area bounded by the Mississippi river levee and Jefferson highway and from Rex Drive to Colonial Heights between these two boundaries. The proposed pump station will be constructed on a vacant parcel of land between Coventry Court and Lee Court on Jefferson Highway.

New Bayou Segnette Drainage Pumping Station, Jefferson Parish, LA: Mr. Logan served as Senior Structural Engineer and also Resident Engineer during construction. This project was a 1200 cfs drainage pump station for Jefferson Parish under the SELA Program. The project included a 1200 cfs pump, intake and discharge structures, retaining walls, intake and discharge tubes, screen cleaners, etc.

Estelle No. 1 Pump Station, Jefferson Parish, LA: Mr. Logan served as Senior Structural Engineer on this project consisted of design to storm proof the pump station and upgrades for all ancillary systems to achieve reliable and redundant systems to insure sustained operation during a storm event.

Drainage Pumping Station No. 11, Sewerage & Water Board of New Orleans, LA: Mr. Logan served as Senior Structural Engineer for this project that involved a 1000 cfs expansion of an existing drainage pump station. The project included a pump station structure attaching the existing structure, widening of intake and discharge structures, concrete intake and discharge tubes, automatic screen cleaners, etc.

Willowdale Pump Station, St. Charles Parish, LA: Mr. Logan served as Senior Structural Engineer for this project. This project included design of a drainage pump station structure for a 250 cfs vertical turbine pump, intake and discharge piping, intake and discharge structures, etc.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Kumar Ambati, EIT, Civil Engineering Intern****Project Assignment:****Structural Design Support****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****5****Education: Degree(s)/Year/Specialization:****B.S./2015/Civil Engineering; M.S./2018/Civil Engineering****Active registration: Year first registered/discipline:****LA/ Engineer in training / 35287****TX / Engineer in training / 64508****Other experience and qualifications relevant to the proposed Project:**

Mr. Ambati has five years' experience in preparing and reviewing construction drawings, specifications, and reports. His project experience includes quality control plans, site visit inspections, condition assessments and addressing client issues. Certifications: Certified ATSSA Flagger; Traffic Control Technician; Traffic Control Supervisor; OSHA-10

Employment History:

- ECM Consultants, Inc., (2019-Present)
- Vertex Companies, Inc. (2019)
- Pyramid Consultants (2013-2016)

USACE-New Orleans District Contract No. W912-P8-16-D-0005, TO 0011, West Shore Lake Pontchartrain Flood Risk Reduction Project Segments WSLP 102 and 106, St. Charles Parish, LA: Mr. Ambati assisted in performing structural modelling and design computations for Flood walls, and gated drainage structure in Montz canal for both the segments under supervision of the Project Structural engineer, Mr. Sudhir Mehta. The purpose of this project is to construct a 100-year level flood risk reduction system for the residents of the three parishes. The WSLP 102 and WSLP 106 of approximately 2 miles, is a part of 18.5 miles long West Shore Lake Pontchartrain project at its east approach. The salient features of this contract are earthen Levees, T-walls, and a Drainage Structure in the Montz canal with four (4) stainless steel sluice gates. The flood mitigation configuration is such that a portion of T-wall construction in this reach crosses the existing I-10 alignment and must be constructed under the I-10 east bound and west bound bridges.

California Canal Channel Improvement by Concrete Slope Paving, Jefferson Parish, LA Mr. Ambati design computations and prepared plan and profiles, cross sections, miscellaneous structural and civil details etc. for improving the canal. Scope of the project included paving the bottom and the side slopes of the canal. The purpose of the improvements is to stabilize the banks and stop the erosion of the side slopes and to improve the channel hydraulic conveyance and efficiency.

USACE-New Orleans District Contract No. W912-P8-16-D-0005, TO 0009, Low Sill Old River Gated Water Control Structure Dewatering Design, Concordia Parish, LA. Mr. Ambati assisted in analyzing the 60-foot retaining walls for stability in dewatering operation and analyzed Stilling Basin and Monolith structures using finite element method and USACE manuals. Emergency repairs consisted of backfilling this enormous hole with boulders and ripraps. The hole under the structure was backfilled with cement grout. The grout bottom was 35 to 40 feet below the bottom of the base slab of the structure. USACE wanted to inspect this critical structure for condition assessment that requires dewatering 30'-45' water after construction of the designed earthen containment dikes on both sides of the structure.

Lake Terrace Oaks, Group-C, and Lake Shore Area Group-E, Roadway Improvements, City of New Orleans Mr. Ambati performed civil design and prepared plans and profiles, sections and details using AutoCAD for this \$11.5 million roadway improvement project that involved complete reconstruction of 20 blocks PCCP roadway including **subsurface drainage system**, replacement of water and sewer systems as required. Work includes PCC paving, new base, concrete curb, sidewalks, driveway aprons and ADA compliant ramps at roadway intersection.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Marvin May, CAD Technician****Project Assignment:****CAD Technician****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****21****Education: Degree(s)/Year/Specialization:****1999/AutoCAD Drafting****Active registration: Year first registered/discipline:****NA****Other experience and qualifications relevant to the proposed Project:**

Mr. May has over **22 years of experience** in AutoCAD drafting. His experience includes preparation of plan and profiles, cross sections, and miscellaneous details for roadway, drainage, and utilities projects. He is trained in both AutoCAD and MicroStation V8.2.

Employment History:

- ECM Consultants Inc., LA, *CAD Technician (2002-to date)*

The following are examples of his relevant experience:

Veterans Boulevard Drainage Pump Stations (South & North), Jefferson Parish, Metairie, LA: Mr. May provided CAD drafting for civil, structural and mechanical items of work for this project involving preparation of site plans, plans and profiles, pile foundation, and discharge piping, sections and various details. The project includes a concrete wet well structures with intakes for installation of 2-30 cfs vertical axial flow pumps at Veterans South and 2-42.5 cfs vertical axial flow pumps at Veterans North, for a total capacity of 60 cfs for the Veterans South and 85 cfs at Veterans North. Project includes steel discharge pipe manifolds (30" and 36" respectively) crossings through the existing flood wall, replacement of a section of the I-Wall with T-wall with access gate, and new gravity drainage system for diversion of flow from the drainage basins to the new pump stations.

Storm proofing Jefferson Parish Pump Stations, USACE, Jefferson Parish, LA: Mr. May performed CADD drafting for storm proofing of Jefferson Parish pump stations including Parish Line, Westminster, Bayou Segnette, Whitney Barataria, and Canal Street. He was responsible for Civil drafting including Title sheets, Index sheets, Location Maps, and R.O.W. maps; and Architectural/Structural/Mechanical drafting including Plans, Elevations, Sections and Details.

Climber Screens for Westminster and Parish Line Pump Stations (JSP 1) for USACE New Orleans District, Jefferson Parish, LA: Mr. May provided CADD services for installation of mechanical climber screen trash raking equipment at the Westminster Lincolnshire and Parish Line Pump Stations located in Jefferson Parish, Louisiana. The project included replacement of the three catenary type trash screens at the Parish Line Pump Station and the four catenary type trash screens at the Westminster Lincolnshire Pump Station with climber screen type trash raking equipment designed to properly fit each pump bay.

Storm Proofing Harvey Pump Station (JSP 14) USACE New Orleans District, Jefferson Parish, LA: Mr. May provided CADD services for preparation of final construction plans for storm proofing of Harvey Pumping Station. The project consisted of replacing Catenary screen cleaners with new Automatic screen cleaners with a debris collection system.

Storm Proofing Estelle No. 1 Pump Station (JSP 13) for USACE New Orleans District, Jefferson Parish, LA: Mr. May provided CADD services for preparation of final construction plans for storm proofing of Estelle No. 1 Pumping Station. The project consisted of replacing the existing bar screens with new bar screens and new Automatic screen cleaners with a debris collection system.

Rehabilitation of the 42nd and Erlanger Sewer Lift Station and the Rehabilitation of the 15th & Webster Lift Station, City of Kenner Dept. of Public Works, Kenner, LA: Mr. May provided CAD support for this sewer rehabilitation project that included design for removal and replacement of existing pumps and motors with all accessories, piping, and control panels to increase capacity at 42nd & Erlanger lift station from 375 gpm to 625 gpm and at 15th & Webster lift station from 800 gpm to 1,200 gpm.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Alexandra Dupuis, CAD Technician****Project Assignment:****CAD Technician****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****>1****Education: Degree(s)/Year/Specialization:****2017/AutoCAD Drafting****Active registration: Year first registered/discipline:****NA****Other experience and qualifications relevant to the proposed Project:**

Ms. Dupuis has more than 7 years of experience in AutoCAD drafting. Her experience includes creating 3D models and making 2D out of the 3D models, preparing layouts as directed by engineers/architects, preparation of plans and profiles, X-sections and various details for roadways, drainage, and utilities system projects

Employment History:

- ECM Consultants Inc., LA, *Sr. Structural Engineer (2023-to date)*
- Project Consulting Services, Inc., *Piping Designer (2022-2023)*
- Huntington Ingalls, *Designer II (2018-2022)*
- American Metal Fab, Inc., *Drafter (2016-2017)*

The following are examples of his relevant experience:

Chateau Elementary School-Hurricane Ida Repairs, Kenner, LA Ms. Dupuis provided CAD services to Chateau Elementary School in Kenner, Louisiana by drafting plans and adding information on damage repairs that needed to be done because of the hurricane. She created and modified floor plans that have detailed callouts referencing to photos of damage done by hurricane. Photos are then documented with descriptions of damage and what needs to be repaired. Floor plans, details, and photos document repairs to floors, walls, and ceilings of school building.

Grand Isle Water Systems Improvements, Grand Isle, LA Ms. Dupuis provided CAD services by drafting one-line piping diagrams to show the chemical feed systems at the East Grand Isle and Cheniere sites. The one-line piping diagrams consist of showing how the chemicals from the ammonia room flow through the pipes and how they travel to specific designated areas where needed. The diagram also includes an equipment list that is required for each individual site.

Hope Haven Main Building, Marrero, LA Ms. Dupuis is providing CAD services by preparing restoration plans for Hope Haven. The project includes the breakdown of damaged material that is identified in floor plans of building and suggested routes of construction walkway. Photos have been included in plans to show physical damage done to the structure. Roof plans are also incorporated in blueprints with documentation of damage and photos as well. The shoring layouts have also been designed to show locations, dimensions, and material need for restoration after debris and damage has been removed.

Transit Improvement Design for District 2, Jefferson Parish, LA Ms. Dupuis provides CAD services for the changes being made to 252 bus stops that follow the latest standards given by the Jefferson Parish, LA DOTD, and AASHTO. The project includes photos of bus stop locations with documentation of changes being made to follow updated standards. The plans of the bus stops include detailed information on proposed concrete layouts, dimensions, street name callouts, and placement of bus stop signs.

HANO On Call AE Services for Agency Wide Housing Communities and Scattered Sites, New Orleans, LA Ms. Dupuis provides CAD services to the interior renovations of Guste III Community, Lafitte Senior Housing, and Fisher Senior Housing for the modernization and redevelopment of multi-family housing units in New Orleans. She has prepared site plans, floor plans, and detailed views to describe to work involved in the various units. Data tables are created to show scope of work for units that show the work item description, quantity, and reference notes/reports. Detailed views offer layouts of changes being made to kitchen and bathroom and consist of appliance callouts, dimensioning, and notes that describe and offer information of changes needed to be done per unit.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Chad Vosburg, P.E., Vice-President****Project Assignment:****Construction Administration****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****5****Education: Degree(s)/Year/Specialization:****B.S./1992/Civil Engineering****Active registration: Year first registered/discipline:****1998/Civil Engineering/LA License No. 27677****Other experience and qualifications relevant to the proposed Project:**

Mr. Vosburg has **over 30 years** of professional engineering experience in project management and construction contract administration during a 25-year career with LADOTD. As **District 61 Administrator for LADOTD** he provided leadership and directed all Baton Rouge operations including construction, maintenance, engineering, public works, traffic services throughout the nine parishes under District 61 Area.

Employment History:

- ECM Consultants Inc., LA, *Vice President of Construction Management (2018 - to date)*
- Louisiana Department of Transportation *District Administrator (2013-2018)*
- Louisiana Department of Transportation *Area Engineer (2007-2013)*

The following are examples of his relevant experience:

Boyd St. & 21st St. Pumping Station Improvements, I-110, LADOTD, Baton Rouge, LA.: Mr. Vosburg was responsible for developing budget and scope of the project, coordination with design consultants and DOTD staff. Project scope included improving the reliability of two major pumping stations along I-110 in E. Baton Rouge Parish, including determination of components of the station to be replaced to achieve improved reliability, conforming with safety standards, along with instrumentation for notifications to maintenance staff regarding pump stations operation issues for immediate response. Mr. Vosburg performed engineering analysis and needs assessment to determine the items needed to be addressed to make operation of the facility efficient.

15th Street Pump Station Rehabilitation I-110, LADOTD, Baton Rouge, LA: Area Engineer. Mr. Vosburg's work included project scoping and design coordination along with broad supervision over the construction contract administration for project that included the replacement of pumps, controls, and electrical. In addition, the entire facility was upgraded to meet current safety standards including accessibility and ventilation to meet confined space requirements. He reviewed plans and specifications for constructability and quality assurance.

I-220/ I-20 interchange Improvements and Barksdale Air Force Base (BAFB) Access, Bossier Parish, LA. Design-Build Project, LADOTD, LA: A Mr. Vosburg served as Project Manager for this **\$77 million design-build project** to construct a new I-220 extension South of I-20 that will provide access to Barksdale Air Force Base, adding access ramps and enhancing capacity at the I-20/220 interchange, and also includes bridge construction over the existing KCS railway and Musselshell bayou. This work included pile driving, drilled shafts, installing prestressed concrete girders, steel girders, **on-grade PCC pavement, Asphaltic Concrete pavement roadway** including earthwork, subbase and base, drainage, utilities relocation. He is responsible for **Construction Quality Control (CQC)** management conforming to LADOTD requirements

.LA 66: Emergency Drainage Repair, LADOTD, West Feliciana Parish, LA, SP No. H.12689.: LADOTD District Administrator. Fast tracked due to the closure of La. 66 during the middle of the flood event. The road was closed due to the failure of 7 -12'X20' Corrugated Metal Pipe Arch structures. The project was critical, since this is the only road that allows access to Angola State Penitentiary, and a very narrow detour was the only detour that could be utilized. Work included the installation of a temporary detour road, removal of existing collapsed pipes, and the installation of 12 new 12' diameter pipes that were each 100 feet long. Mr. Vosburg's involvement included all facets of project development including survey, design, bidding, and Construction Engineering and Inspection.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Manny Aspuria, Construction Inspector****Project Assignment:****Resident Inspection****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****1****Education: Degree(s)/Year/Specialization:****NA****Active registration: Year first registered/discipline:****NA****Other experience and qualifications relevant to the proposed Project:**

Mr. Aspuria has over 36 years of experience in operations and maintenance of Jefferson Parish Pump Station. Mr. Aspuria started his career as a pump station operator and was promoted to Pump Station Superintendent for the East Bank. He then was promoted to O&M Manager in charge of all East and West Bank drainage pump station improvements.

Employment History:

- ECM Consultants Inc., *Construction Inspector (2023-to date)*
- Jefferson Parish DPW, *Operations & Maintenance Manager (2016-2019)*
- Jefferson Parish DPW, *Superintendent 3 (2007-2016)*
- Jefferson Parish DPW, *Superintendent 1 (2001-2007)*
- Jefferson Parish DPW, *Pump Station Operator (1983-2003)*

The following are examples of his relevant experience:

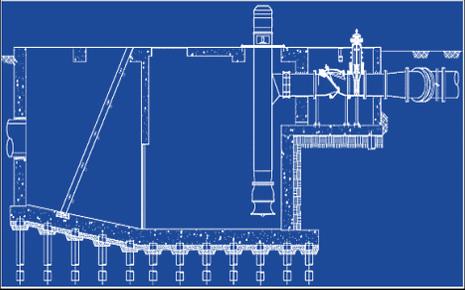
Veterans Blvd. (South & North) Pump Stations, Jefferson Parish, LA: Manny is currently serving as Resident Inspector for these two new drainage pump stations of capacities 60 cfs and 85 cfs respectively. Veterans South includes 2-30 cfs vertical axial pumps and Veterans North includes 2-42.5 single speed vertical axial pumps. The projects include installation of concrete intake, wet well structures on steel H-pile foundation, steel sheet pile temporary retaining structure (TRS) for station excavation, discharge piping crossing through the hurricane protection flood wall, major subsurface gravity drainage system along Veterans Blvd. to divert flow from the drainage basins to the new pump stations. Work also include electrical service, control systems, backup generators and ATS and SCADA systems.

Storm proofing of Jefferson Parish Drainage Pump Stations, Jefferson Parish, LA: Mr. Aspuria was involved in a \$330 million storm proofing of all drainage pump stations in Jefferson Parish undertaken by USACE after hurricane Katrina. He served as Liaison between Jefferson Parish and ECM engineers that provided storm proofing design for the pump stations buildings and ancillary systems to achieve reliable and redundant systems to ensure sustained operation of the drainage pump stations during storm events. He provided technical operation information needed by the engineers for updating of various systems. He has vast knowledge of all of the drainage pump stations in Jefferson Parish.

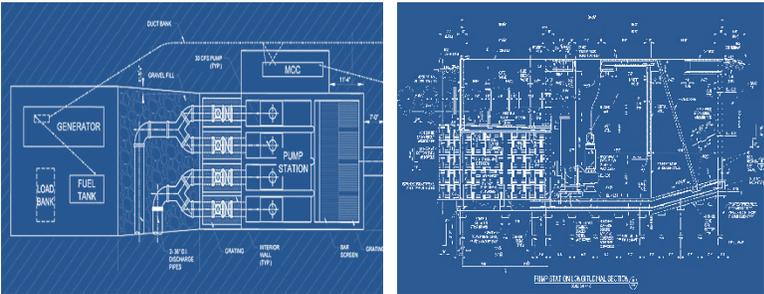
Pontiff Playground Detention Area: Mr. Aspuria was involved with this \$5 million project involving construction of a stormwater detention pond and small pump stations. This project involved utilizing the Pontiff playground as a detention pond during a storm event to store rainwater. This project included constructing a ring levee around the playground with strategically placed small pump stations to pump rainwater from the surrounding neighborhoods into the playground. Benefits of this project were reduced flooding in the area neighborhood and slow release of the water into the downstream drainage system. The project did not impact the function of the playground in such that the playground was functional within hours after the rain events.

Parish Line Pump Station Capacity Expansion: Mr. Aspuria oversaw Parish Line Pump Station expansion during the construction phase. This project included adding additional capacity to the existing pump stand, increasing the station pumping capacity by 350 CFS. This project involved adding one diesel driven pump and the ancillary equipment which included the 72" discharge pipe for the pump to be penetrated through flood protection T-wall.

PROJECT NO. 1

<p>Project Name, Location and Owner's contact information:</p>	<p align="center">Nature of Firm's Responsibility:</p>	
<p>Veterans Boulevard (North & South) Drainage Pump Stations, Metairie, LA</p> <p>Jefferson Parish-DPW 1221 Elmwood Park Blvd., Jefferson, LA 70123</p> <p>Gary Lehmann, Project Manager Work phone: 504.736.6779 Gary.Lehmann@jeffparish.net</p> <p><u>Relevance to Scope of Work:</u></p> <p>New Drainage Pump Stations, gravity drainage upgrades and 408 permitting Services Provided:</p> <ul style="list-style-type: none"> ✓ Hydrologic & Hydraulic Analysis and modeling ✓ Engineering analyses, computations, and studies ✓ Preparation of Concept design with cost estimates ✓ Civil, Structural, mechanical, electrical, controls and SCADA system design ✓ Design for pump discharge pipes crossing over the Levee ✓ Preparation of PS&E ✓ Bidding phase services ✓ Constn. Admin and Resident Inspection ✓ Coordination with Subs: <ol style="list-style-type: none"> 1. Survey, 2. Geotechnical Engineering, 3. Electrical Engineering 4. 408 permitting 5. Facilitate SAR Review for 408 permit <p>Project Values Fees: \$943,000.00 Constn Cost: \$18.2 Million</p> <p>KEY PERSONNEL</p> <p>Ujjal DasGupta, P.E., Kazem Alikhani, P.E., Sunina Shrestha, P.E., John Rasi, P.E., Sudhir Mehta, P.E., Neil Logan, P.E., Chris Capretto, P.E.</p>	<p>The purpose of this project is to minimize recurring flooding in the area along the west bank of the 17th Street Canal between Lake Pontchartrain and the north side of Interstate 10 (I-10). ECM has performed hydrologic and hydraulic analysis and modeling for the watershed. Also, as required by the USACE, ECM conducted a full hydraulic evaluation of the canal system under various scenarios to study the impact of discharge from these pump stations on the 17th street canal's maximum operating water level (MOWL). The evaluation included developing synthetic hydrographs for each pump station and routing them through the canal and calibrating USACE hydraulic model for 17th Street canal. The hydraulic analysis and modeling were also performed for validating capacities needed for the pumping stations. ECM' s engineers modeled 5 different scenarios using SWMM to find the most effective approach for reducing flooding in the drainage sub-basins. In addition to the pump stations, both the basins were modelled, and hydraulic analysis was performed for the existing subsurface drainage system to determine needed pipes size increase in various areas to lower the water surface profile by about 2 ft for reducing flooding.</p> <p>ECM provided civil, structural, mechanical design, prepared plans, specifications, and Estimates (PS&E) for these two (2) new drainages pump stations that will discharge into the 17th Street Canal. The approximate pumping capacity for these pump stations are 60 cfs (Veterans North) and 85 cfs (Veterans South).</p> <p>Included in the design of these two pump stations are concrete intake structures with trash screens, wet well, multiple axial flow pumps and piping system with manifold force mains that discharge into the 17th Street Canal. The power and control system are designed by IMC, our sub-consultant.</p> <p>Work includes layout of the pump stations and geometrics of the suction chamber based on pumps and Hydraulic Institution (HI) standards; design of concrete pump station structure on timber pile foundation, suction and discharge piping, timber pile supported generator foundation, etc. Work also includes emergency diesel generator with automatic transfer switch, control systems with automatic operations and sequencing, integrated level control systems, and remote monitoring with SCADA.</p> <p>Work also includes design of major subsurface drainage system to reverse a major part of the runoff from the existing gravity drainage system so that runoff will be diverted toward the new pump stations. This will minimize flooding by reducing canal overflow occurrences and reducing burden on the existing subsurface drainage system. ECM Team is also responsible for 408 permitting as required by USACE and relocation of utilities at conflicts.</p>  	
<p>Completion Date: (Actual or Estimated):</p>	<p align="center">Estimated Cost:</p>	
<p align="center">Ongoing / 2025 (E)</p>	<p align="center">Entire Project:</p> <p align="center">\$18.2Million</p>	<p align="center">Work for which Firm was Responsible:</p> <p align="center">\$16.5 Million</p>

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Coventry Court Drainage Pump Station 2019-038-PS, Jefferson Parish, LA</p> <p>Jefferson Parish-DPW 1221 Elmwood Park Blvd., Jefferson, LA 70123</p> <p>Mitch Theriot, Project Manager Work phone: (504)736-6753 MTheriot@jeffparish.net</p> <p><u>Relevance to Scope of Work:</u></p> <p>New Drainage Pump Stations Services Provided:</p> <ul style="list-style-type: none"> ✓ Engineering analyses, computations, and studies ✓ Preparation of Concept design with cost estimates ✓ Civil, Structural, mechanical, electrical, controls and SCADA system design ✓ Design for pump discharge pipes crossing over levee ✓ Preparation of PS&E ✓ Bidding phase services (not done) ✓ Constn. Admin and Resident Inspection (not done) <p>Supplemental Services:</p> <ol style="list-style-type: none"> 1. DOTD Permit 2. Topographical Survey, 3. Geotechnical Investigation, 4. Property acquisition 5. Bidding, Construction Administration and Construction Observation <p>Project Values Fees: \$857 K Constn Cost: \$13 Million</p> <p>KEY PERSONNEL Kazem Alikhani, P.E. Sunina Shrestha, P.E. Neil Logan, P.E.</p>	<p>This project is designed to help reduce the chronic stormwater flooding experienced by the residents of the area bounded by the Mississippi river levee and Jefferson highway and from Rex Drive to Colonial Heights between these two boundaries. The proposed pump station will be constructed on a vacant parcel of land between Coventry Court and Lee Court on Jefferson Highway. The pump station when completed will have three 30 CFS submersible pumps with a total capacity of 90 CFS. The structure is designed to accommodate a future fourth 30 CFS pump when the need arises. The inflow to the station is from the local area subsurface drainage system.</p> <p>Two alternate locations for the discharge manifolds were considered. The first entailed directionally drilling the manifolds in the backyards of residences on Coventry and Lee Court which would have been more disruptive and would have required permanent servitude from the property owners. This option was ruled out in favor of an open-cut installation of the Ductile Iron pipe manifolds routed southward along Jefferson highway and down Colonial Heights crossing over the levee and terminating at the protection dolphins in the river. The pumps will normally operate on utility power, but a diesel engine generator set is included in the project and will be available for backup power supply. In the event of a power outage, the diesel engine generator set equipped with ATS will seamlessly and automatically start and provide power to the pumps.</p> <p>ECM has provided complete professional engineering services including the civil, structural, electrical, and instrumentation design of the project. The pump selection was made based on the capacity requirement and calculated TDH. The Hydraulic Institute's guidance and recommendations were followed in the design of the suction basin and the suction chambers to prevent the formation of subsurface and surface vortices. The inflow into the pump station will be screened using a trash screen to keep the major debris out of the suction chambers.</p> <p>The structural design of the pump station entails the analyses and design of the pile-supported reinforced concrete generator slab, the reinforced concrete wet well, and protection dolphins designed for ship impact. Both the pump floor and the generator platform elevations were set above the BFE (base flood elevation) of the project site. The pump station will be equipped with state-of-the-art technology, including a SCADA system for automation. This system will allow the pump station to operate more efficiently, requiring reduced manual intervention.</p> <p>The SCADA system will provide automation and control of the pump station. The system will monitor the water level in the wet well and activate the pumps as needed. The system will also provide remote monitoring and control capabilities, allowing operators to monitor the pump station from a central location.</p> 	
<p>Completion Date: (Actual or Estimated):</p>	<p align="center">Estimated Cost:</p>	
<p align="center">Ongoing</p>	<p align="center">Entire Project:</p> <p align="center">\$13 million</p>	<p align="center">Work for which Firm was Responsible:</p> <p align="center">\$10 million</p>

PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
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Westwego No. 1 Pump Station
USACE Contract No. W912P8-07-D-0031, T.O. 0058 and 0064,
Jefferson Parish, LA.

US Army Corps of Engineers
7400 Leake Avenue
New Orleans, LA 70118

Daniel Bradley, P.E., Project Manager
Work phone: 504.862.2696
Daniel.F.Bradley@usace.army.mil

Relevance to Scope of Work:

New Drainage Pump Station Design and site improvements.

Services Provided:

- ✓ Engineering analyses, computations, and DDR
- ✓ Preparation of Concept design with cost estimates
- ✓ Civil, Structural, mechanical, electrical, controls and SCADA system design
- ✓ Preparation of PS&E
- ✓ Coordination with Subs:
 1. Survey
 2. Geotechnical Engineering
 3. Electrical Engineering

Project Values

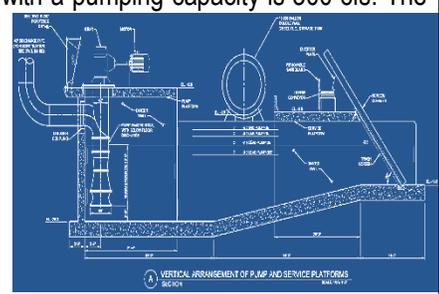
Fees: **\$700,054.00**
 Constn Cost: **\$7.0 Million**

Key Personnel

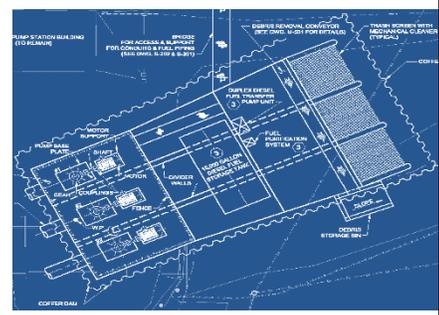
Ujjal DasGupta, P.E.
 Sunina Shrestha, P.E.
 Neil Logan, P.E.
 Marvin May

The information below is based on a DDR report titled "Westwego No. 1 Pump Station JSP-15 Storm Proofing Plan", dated March 2011, prepared by ECM Consultants Inc. for US Army Corps of Engineers:

"Westwego No. 1 Pump Station was constructed in 1949 with a pumping capacity is 300 cfs. The storm water is collected into the intake basin through box culverts. There are two bridges on the site to access various portions of the site. The existing discharge pipe is 84" in diameter and discharges into the Bayou Segnette."



Westwego Pump Station No.1 is critical to the prevention of flooding in the downtown area of the City of Westwego. As part of the program to stormproof existing pump stations in Jefferson Parish, it was intended that pump stations be upgraded to resist damage from hurricane force winds, be provided with automatic controls that would allow unattended operation during a storm, provide redundancy and missile barrier protection for critical equipment, provide generators to run the station in the event of loss of power, and upgrade fuel supply systems that would sustain pump station operation for 5 days. As per initial investigation it was not possible to achieve ALL the objectives for Storm proofing this station because of its age, condition, size and type of equipment, difficulties in providing the required automation requirements, and the disparity between station capacity and the low-end flow characteristics of the drainage basin



The station modifications proposed were to provide a new pump station with capacity equal to the existing. Several alternatives that might achieve the storm proofing program objectives were researched, but only one of the options studied was able to provide all the desired requirements. The recommended plan was to use three (3) 100 cfs pumps driven by electric motors suitable for outdoors use.

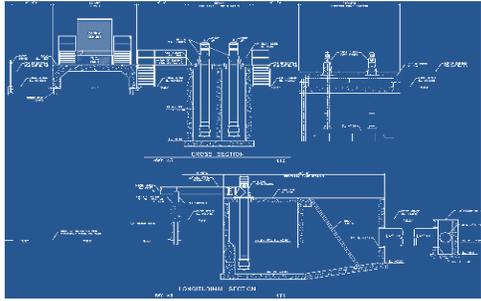
Scope of Work for ECM included design a new pump station with a pile supported intake basin, intake screen and a support structure for the new trash screen, conveyor support and vehicular access, a pump platform for three (3) pumps including a missile barrier protection for the pumps, a pile supported platform for supporting the generator, discharge pipe supports and new fuel storage tanks.

The new Station design included three (3) direct drive axial flow pumps, each with a capacity of 125 cfs for a **total station capacity of 375 cfs** for high flow and low head conditions. The intake structure (designed in accordance with Hydraulic Institute (HI) and ANSI Standard 9.8), intake screens with screen cleaning and debris removal systems; fiber optic connectivity to Westwego No. 2 Pump Station safe house for remote control and monitoring; CCTV camera system; electrical service with emergency generator power and automatic transfer switches; and bulk fuel storage with fuel purification.

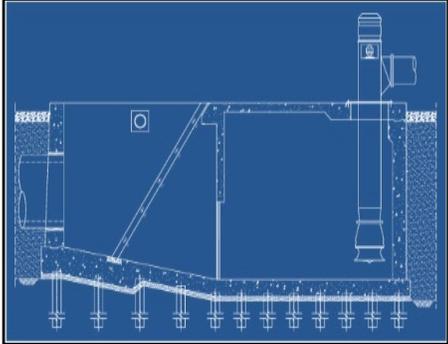
This Task Order 64 was part of a 5-year, \$90 million IDIQ contract with USACE New Orleans District. ECM completed 65% design and PS&E, but the final construction document was not undertaken by USACE. As requested by USACE, ECM submitted all Plans, specifications and estimates to Jefferson parish for future undertaking.

Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2011 (A) / Prel Design	\$6.5 Million	\$5 Million

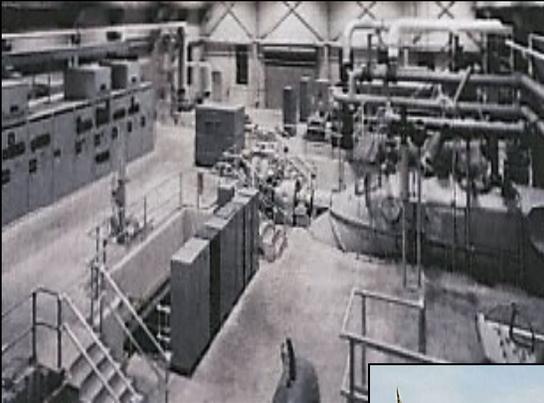
PROJECT NO. 4

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>HWY 45 Pump Station, Lafitte, LA</p> <p>Town of Jean Lafitte 4937 Hearst St Metairie, LA 70001</p> <p>Ann Theriot, Project Manager Work phone: (504) 885-9892 atheriot@meyer-e-l.com</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><u>Relevance to Scope of Work:</u></p> <p>New Drainage Pumping Station Design</p> <p><u>Services Provided:</u></p> <ul style="list-style-type: none"> ✓ Engineering analyses, computations, and studies ✓ Preparation of Concept design with cost estimates ✓ Civil, Structural, mechanical, electrical, controls system design ✓ Design for pump discharge pipes ✓ Preparation of PS&E ✓ Bidding phase services (to be provided) ✓ Constn. Admin and Resident Inspection (to be provided) <p>Supplemental Services:</p> <ol style="list-style-type: none"> 1. DOTD Permit 2. Topographical Survey, 3. Geotechnical Investigation, 4. Property acquisition <p>Project Values Fees: \$400 K Constn Cost: \$5 Million</p> <p>KEY PERSONNEL</p> <p>Kazem Alikhani, P.E. Sunina Shrestha, P.E. Sudhir Mehta, P.E.</p> </div>	<p>ECM Consultants is preparing plans and specifications for a drainage pump station with a capacity of 30 cubic feet per second (CFS) to serve the Lafitte, Louisiana Coastal community. The pump station will consist of two direct drive axial flow pumps, each with a capacity of 15 CFS. The pump station will be located at the site of a smaller existing pump station, adjacent to it, on LA Hwy 45 in Jefferson Parish, and will discharge into the bayou Barataria. The pumps will normally operate on utility power, but a diesel engine generator set is included in the project and will be available for backup power supply. In the event of a power outage, the diesel engine generator set will automatically start and provide power to the pumps. The generator set will be equipped with an automatic transfer switch to ensure a seamless transition from utility power to backup power.</p> <p>The purpose of the project is to provide relief to the Lafitte community from the flooding caused by precipitation events.</p> <p>ECM provides complete professional engineering services including the civil, structural, mechanical, electrical, and instrumentation design of the project. The pump selection was made based on the capacity requirement provided by the Parish and calculated TDH. The Hydraulic Institute's guidance and recommendations were followed in the design of the suction basin and the suction chambers to prevent the formation of subsurface and surface vortices. The inflow into the pump station will be screened using a trash screen to keep the major debris out of the suction chambers.</p> <p>The structural design of the pump station entails the analyses and design of the pile-supported reinforced concrete, the reinforced concrete wet well and generator platform. Both the pump floor and the generator platform elevations are set at the BFE (base flood elevation) as desired by the client. The pump station is designed to be equipped with state-of-the-art technology, including a SCADA system for automation. This system will allow the pump station to operate more efficiently, requiring reduced manual intervention.</p> <p>The SCADA system will provide automation and control of the pump station. The system will monitor the water level in the wet well and activate the pumps as needed. The system will also provide remote monitoring and control capabilities, allowing operators to monitor the pump station from a central location.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;">   </div>	
<p>Completion Date: (Actual or Estimated):</p> <p align="center">Ongoing/ 2025 (E)</p>	<p>Estimated Cost:</p>	
	<p>Entire Project:</p> <p align="center">\$5 Million</p>	<p>Work for which Firm was Responsible:</p> <p align="center">\$5 Million</p>

PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>West Esplanade Drainage Pump Station, Jefferson Parish, LA</p> <p>Jefferson Parish-DPW 1221 Elmwood Park Blvd., Jefferson, LA 70123</p> <p>Gary Lehmann, Project Manager Work phone: 504.736.6779 Gary.Lehmann@jeffparish.net</p> <p><u>Relevance to Scope of Work:</u></p> <p>New Drainage Pump Stations, gravity drainage upgrades and 408 permitting Services Provided:</p> <ul style="list-style-type: none"> ✓ Hydrologic & Hydraulic Analysis and modeling ✓ Engineering analyses, computations, and studies ✓ Preparation of Concept design with cost estimates ✓ Civil, Structural, mechanical, electrical, controls and SCADA system design ✓ Design for pump discharge pipes crossing over the Levee ✓ Preparation of PS&E ✓ Bidding phase services (Not done) ✓ Constn. Admin and Resident Inspection (not done) ✓ Coordination with Subs: <ol style="list-style-type: none"> 1. Survey, 2. Geotechnical Engineering, 3. Electrical Engineering 4. 408 permitting 5. Facilitate SAR Review for 408 permit <p>Project Values Fees: \$625,000.00 Constn Cost estimate: \$8.5 million</p> <p>KEY PERSONNEL Ujjal DasGupta, P.E., Kazem Alikhani, P.E. Sunina Shrestha, P.E., John Rasi, P.E. Sudhir Mehta, P.E., Neil Logan, P.E. Chris Caoretto, P.E., Cecil Soileau, P.E.</p>	<p>The purpose of this project was to minimize recurring street flooding in the area along the west bank of the 17th Street Canal between Lake Pontchartrain and the north side of Interstate 10 (I-10). The hydraulic and hydrologic analysis and modeling was performed for this new drainage pump station to validate capacities needed for the pumping station.</p> <p>Design of this pump station included concrete wet well with intake basin and debris collection screen, multiple axial flow pumps and piping system with force mains that discharge into the 17th Street Canal. The West Esplanade pump station will have four pumps 2- 60 CFS and 2- 30 CFS for a total capacity of 180 CFS. Out of 4 pumps, 2-60 CFS and 1-30 CFS will be installed now, and structure is designed to accommodate 1-30 CFS pump at a later date. Work includes layout of the pump station and geometrics of the suction chamber based on pumps and hydraulic institution standards; design of concrete pump station structure on timber piles, trash screens, suction and discharge piping, timber pile supported generator foundation, etc. Work also includes power supply from Entergy and emergency diesel generator with automatic transfer switch. The pump station design also includes fiber optics lines, control systems with automatic operations and sequencing, integrated level control systems, and remote monitoring with SCADA. Work also includes upgrading the existing gravity drainage system to divert flows from the drainage basin to the new pump station.</p> <p>Project scope also included hydraulic modeling for various scenarios to find the most effective approach for reducing flooding in the drainage sub-basins. Hydraulic analysis and modeling were performed using SWMM program, for the drainage sub-basin to determine needed increase to the pipe sizes for the existing subsurface drainage system to lower the water surface profile for reducing flooding.</p> <p>As a part of the 408 permit for USACE, for crossing the discharge pipes over the levee, ECM conducted additional geotechnical analysis, as required by the Corps as well as performed a full hydraulic evaluation and modeling of the canal system under various scenarios to study the impact of this pump station and two others on the canal safe water level. The evaluation included developing system hydrographs for the pump station and routing them through the canal using a HEC-RAS model.</p>	 
<p>Completion Date: (Actual or Estimated):</p>	<p align="center">Estimated Cost:</p>	
<p align="center">Ongoing/ 2026 (E)</p>	<p align="center">Entire Project:</p> <p align="center">\$10 million</p>	<p align="center">Work for which Firm was Responsible:</p> <p align="center">\$10 million</p>

PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Expansion of Drainage Pumping Station No. 11</p> <p>Sewerage & Water Board of New Orleans 625 St. Joseph Street New Orleans, LA 70169</p> <p>Michael Nicoladis, Vice President N-Y Associates (Prime) Work Phone: 504.885.0500 Mnicoladis@n-yassociates.com</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><u>Relevance to Scope of Work:</u></p> <p>Drainage Pump Stations Expansion and canal improvements to increase hydraulic efficiency.</p> <p><u>Services Provided:</u></p> <ul style="list-style-type: none"> ✓ Hydrologic & Hydraulic Analysis ✓ Civil engineering analyses, computations and design ✓ Preparation of PS&E for intake and discharge channel and structures ✓ Bidding support ✓ Construction Administration support <p><u>Project Values</u></p> <p>Fees: \$250,000.00 Constn Cost: \$12 million</p> <p><u>KEY PERSONNEL</u> Ujjal DasGupta, P.E. Neil Logan, P.E.</p> </div>	<p>This project involved engineering design, preparation of plans and specifications bidding, construction administration services to increase the pumping capacity of the pump station by 1000 cfs with two (2)- 500 CFS pumps.</p> <p>Project scope included extension of the existing pump station structure and building, intake and discharge basins including improvements to intake and discharge channels discharging to the Gulf Intracoastal Waterway. Scope also included the installation of the two (2), 500 cfs horizontal shaft axial flow propeller pumps, drive motors, speed reducers, controls, vacuum priming pumps, a back-up diesel generator and fuel tanks. Work also included demolition and removal of the existing mechanical screen cleaners and furnishing and installing new mechanical screen cleaners for the existing station and the addition of the new pump intakes.</p> <p>As subconsultant to N-Y Associates, ECM performed civil and hydraulic analysis to determine backwater profile of the intake canal, design for the improvements to both the intake and discharge sides of the canal as well as work associated with intake and discharge basins involving concrete retaining walls and the intake and discharge basin slabs on pile foundations.</p> <p>The project was completed while keeping the existing station operational to avoid flooding within the designated drainage area.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div>	
<p>Completion Date: (Actual or Estimated):</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
1997 (A)	\$12 Million (Construction)	\$4 Million (Construction)

PROJECT NO. 7

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
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Elmwood & Cousins Pump Stations
Jefferson Parish, LA

USACE New Orleans District
7400 Leake Ave.
New Orleans, LA 70160

Daniel Bradley, P.E., Project Manager
Work phone: 504.862.2696
Daniel.F.Bradley@usace.army.mil

ECM provided planning, engineering design, preparation of final construction plans and specifications, EDA and EDC services for pump station storm proofing projects throughout Jefferson Parish. This Task Order was part of a 5-year, \$90 million IDIQ contract for various multi-million dollars hurricane risk reduction projects for USACE New Orleans District.

Under this Task Order No.0029, ECM provided design and EDC services for the following pump stations: **Cousins Pump Station No. 01, 02, and 03 and Elmwood No. 1 and No. 2 Pump Stations.**

The purpose of this Task Order was to provide storm proofing design for the building envelopes as well as the ancillary systems to achieve reliable and redundant systems to insure sustained operation of the drainage pump stations during storm events. The projects included design elements such as concrete foundations, new roofs, exterior wall reinforcement, ventilation, electrical wiring, lighting, lightning protection, remote monitoring and control system upgrades, new level sensing controls, new generators and fuel tanks, fuel purification system, discharge piping, intake screens, screen cleaning system with debris removal system, CCTV camera system, SCADA system etc. ECM was also responsible for coordination and management of survey and geotechnical activities.

EDC responsibilities included: attending the pre-construction conferences; responding to the Contracts Requests for Information and Clarifications; reviewing submittals from the construction contractor and performing monthly or bi-weekly site visits with the objective of witnessing construction practices, observing conditions and documenting from the designer's perspective the implementation of the designer's product.

Relevance to Scope of Work:

New Drainage Pump Stations, gravity drainage upgrades and 408 permitting Services Provided:

- ✓ Preparation of Construction Plans & Specification, cost estimates,
- ✓ Bid schedules, land rights work maps
- ✓ Preparation of Construction Performance Time
- ✓ Preparation of QA Plans
- ✓ Operation & Maintenance Plans
- ✓ Obtaining permits
- ✓ Survey and Geotechnical Coordination
- ✓ Shallow Water Foundations
- ✓ Hurricane Protection Work
- ✓ Pump stations
- ✓ Channel Bank Stabilization
- ✓ Concrete & Steel Structures
- ✓ Topographic Survey
- ✓ Geotechnical Work

Project Values

Fees: **\$924,904.00**

Constn Cost estimate: **\$7.2 million**

KEY PERSONNEL

Ujjal DasGupta, P.E.,
 Sunina Shrestha, P.E.
 Neil Logan, P.E.
 Marvin May



Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

2014 (A)	\$7.2 Million (Construction Cost)	\$7.2 Million
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PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>GIWW Complex & Pump Station Engineering Design, Jefferson & Orleans Parishes, LA</p> <p>USACE Rock Island District New Orleans Support (RINOS) USACE New Orleans District 7400 Leake Ave. New Orleans, LA 70118</p> <p>Barbara L. Lester, Project Manager USACE Rock Island District Work Phone: 309-794-5480 Barbara.L.Lester@usace.army.mil</p> <hr/> <p><u>Relevance to Scope of Work:</u></p> <p>Drainage Pump Stations Services Provided:</p> <ul style="list-style-type: none"> ✓ Hurricane damage risk reduction complex ✓ Levees and flood walls ✓ Pump station ✓ Sector gate, Flood gates & Sluice gates ✓ Roads and Utilities work <p>Project Values Fees: \$6.7 million Constn Cost estimate: \$1.1 billion</p> <p>KEY PERSONNEL Ujjal DasGupta, P.E. Kazem Alikhani, P.E.</p>	<p>ECM provided Project Management services under a \$90 million IDIQ, ECM-GEC Joint Venture contract with USACE to support USACE-Rock Island District for the RINOS program. The Rock Island District assumed responsibility for four major projects, involving 26 construction contracts, worth over \$1 Billion. The RINOS mission included raising and stabilizing levees and floodwalls, constructing sector gate surge barriers across shipping channels and a major pump station. The major projects included:</p> <p>Algiers Canal - Improving levee stability, constructing road closure gates and flood walls, and constructing fronting protection</p> <p>Eastern Tie In - Constructing new levees, vehicular and railroad flood gates, and a stoplog structure across the Hero Shipping Canal.</p> <p>Western Tie In - A series of levees, floodwalls, floodgates to button up the west end of the West Bank and Vicinity Hurricane Protection System.</p> <p>West Closure Complex - This sector gate closure of the busy Gulf Intracoastal Waterway (GIWW) eliminated the need for more than 20 miles of flood surge protection along both sides of the Algiers and Harvey Canals. The project included a 225-foot wide sector gate, a 18,640 cfs pumping station (both the largest sector gate and the largest pump station within the U.S.), and 7 large sluice gates, floodwalls, levees and roads.</p> <p>This project was the first major Civil Works project to utilize Early Contractor Involvement (ECI), where the construction contractor is engaged during the design phase. ECM in association with our subconsultant, Stanley Consultants provided technical and project management services for this project and was responsible for coordinating design, engineering; scheduling, cost estimating value engineering and coordination with designer, contractor and USACE-RI. This included reviewing Engineer's designs for compliance with work scope, schedule, budget and sound engineering. Scope included meeting with contractor daily to solve engineering issues, construction scheduling, cost and constructability issues, conducting weekly design coordination meetings.</p> <p>ECM also provided construction management and QA inspection services under a \$65 million IDIQ, ECM-CDD JV contract and was responsible for monitoring construction activities to ascertain that all work was performed in strict compliance with contract plans and specifications; review of contractor's quality control plans; review of submittals and shop drawings; entering project data in RMS systems; maintaining all documents such as shop drawings, submittals, RFI's contract modifications; monitoring compliance with contractor's safety program; review contractors payment application; preparation of contract modification; and close-out documents.</p> <div style="display: flex; justify-content: space-around;">    </div>	
<p>Completion Date: (Actual or Estimated):</p>	Estimated Cost:	
	<p>Entire Project:</p>	<p>Work for which Firm was Responsible:</p>
<p>2013 (A)</p>	<p>\$6.7 million (Fees)</p>	<p>\$2.6 Million (Fees)</p>

PROJECT NO. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Velasco East Levee Drainage Pump Station Brazoria County, Texas</p> <p>Velasco Drainage District Clute, Texas USACE- Galveston District Sub to AECOM</p> <p>Al Naomi, Project Manager AECOM 504.939.2041 al.naomi@aecom.com</p> <hr/> <p><u>Relevance to Scope of Work:</u></p> <p>Expansion of an existing Drainage Pump Station</p> <p><u>Services Provided:</u></p> <ul style="list-style-type: none"> ✓ Engineering analyses, computations, and studies ✓ Preparation of Concept design with cost estimates ✓ Civil, Structural, mechanical, electrical, controls and SCADA system design ✓ Design for pump discharge pipes ✓ Preparation of PS&E <p><u>Project Values</u> Fees: \$200 K Const. Cost estimate: \$3 million</p> <p><u>KEY PERSONNEL</u> Kazem Alikhani, P.E. Sunina Shrestha, P.E. Neil Logan, P.E. Marvin May</p>	<p>The Velasco East Levee Drainage Pump Station is an existing pump station in the Freeport Hurricane Flood Protection Levee System. The existing pump station has a total of five vertical pumps. Two of the five pumps with a capacity of 580 CFS each were added in the 2005 expansion which also added the space for three additional future pumps. ECM's scope of work included preparing 35% DDR and plans for adding one (1) vertical pump with a capacity of 580 CFS, diesel engine drive, reduction gear, and all related appurtenances in one of the three available pump bays added in the 2005 expansion. The SOW also included ascertaining that structural capacity is adequate for the new load demand.</p> <p>ECM, as a Sub to AECOM, has provided professional consulting engineering services including the civil, structural, electrical, and mechanical design of the expansion of the Velasco Pump Station. The selection of the pump and equipment was based on the design parameters provided by the owner. The pump model and the speed selected ensured that the system requirements will be satisfied & that the pump will operate within a relatively high-efficiency range. A right-angle reduction gear with an appropriate reduction ratio and HP was selected to operate the vertical pump using the diesel engine drive. A new 96 inch diameter AWWA C200 discharge pipe is planned to connect the pump discharge elbow to an already existing discharge pipe. The new electrical loads were estimated and compared to the available existing capacity. The overall one-line diagrams and MCC panel layout were provided.</p> <p>The suction chamber configuration was evaluated to ascertain that the original design met the Hydraulic Institute standards and that no modifications were necessary to prevent the formation of the surface and subsurface vortices.</p> <p>The new concrete wall penetrated by the new discharge pipe was analyzed and designed to resist the earth pressures. The lateral earth forces will be transferred to the exist foundation by means of epoxy adhesive anchors. The existing reinforced concrete structure including the foundation was analyzed and evaluated for the static and where applicable, the dynamic loads imposed by the new pumps and related equipment. The new engine pad was modeled after the existing one and was designed to be connected to the existing structure with epoxy adhesive anchors, such as Hilti.</p> <p>The station has an existing SCADA system which consists of a Control Room Server, Control Room Ethernet Switch communicating with various PLCs. The system is configured to monitor the station operations. Our scope included adding the Engine and Pump Control Panels for the proposed work.</p>	 				
<p>Completion Date: (Actual or Estimated):</p> <p align="center">2022 (A) Design</p>	<p align="center">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="537 1808 1068 1871" style="width: 50%;">Entire Project:</th> <th data-bbox="1068 1808 1542 1871" style="width: 50%;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td align="center" data-bbox="537 1871 1068 1906">N/A</td> <td align="center" data-bbox="1068 1871 1542 1906">\$3.0 Million</td> </tr> </tbody> </table>		Entire Project:	Work for which Firm was Responsible:	N/A	\$3.0 Million
Entire Project:	Work for which Firm was Responsible:					
N/A	\$3.0 Million					

PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Storm Proofing Jefferson Parish Drainage Pump Stations</p> <p>U.S. Army Corps of Engineers New Orleans District 7400 Leake Avenue New Orleans, LA 70160</p> <p>Daniel Bradley, P.E., Project Manager Work phone: 504.862.2696 Daniel.F.Bradley@usace.army.mil</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><u>Relevance to Scope of Services:</u></p> <ul style="list-style-type: none"> ✓ Engineering and Design ✓ Preparation of PS&E ✓ Drainage Pumping Stations ✓ Pump houses ✓ Mechanical and Electrical ✓ Structural design ✓ Architectural design ✓ Bidding ✓ Construction Management ✓ QA Inspection <p>Project Value: Total Construction Cost: \$330M (All 30 stations)</p> <p>Key Personnel: Ujjal DasGupta, P.E., Neil Logan, P.E. Sunina Shrestha, P.E., Kazem Alikhani, PE (for JP)</p> </div>	<p>ECM provided planning, engineering design, preparation of final construction plans and specifications, EDA, EDC, construction management and QA inspection services for pump station storm proofing projects throughout Jefferson Parish. These Task Orders were part of a 5-year, \$90 million IDIQ contract for various multi-million dollar civil projects for USACE- New Orleans District.</p> <p>Under several Task Orders, ECM provided services for the following pump stations: Cousins Pump Station, Canal Street Pump Station, Estelle Nos. 2 Pump Station, Westminster Pump Station, Harvey Pump Station, Westwego No. 2 Pump Stations, Parish Line Pump Station, Bayou Segnette Nos. 1 and 2 Pump Stations, Whitney Barataria Pump Station, Elmwood Pump Station, Ames Pump Station, Duncan Pump Station, Bonnabel Pump Station, Mt. Kennedy Pump Station, Hero Pump Station, and Planters Pump Station.</p> <p>The purpose of these Task Order was to provide storm proofing design for the building envelopes as well as the ancillary systems to achieve reliable and redundant systems to insure sustained operation of the drainage pump stations during storm events. The projects included design elements such as concrete foundations, new roofs, exterior wall reinforcement, ventilation, electrical wiring, lighting, lightning protection, remote monitoring and control system upgrades, new level sensing controls, new generators and fuel tanks, fuel purification system, discharge piping, intake screens, screen cleaning system with debris removal system, CCTV camera system, SCADA system etc. ECM was also responsible for coordination and management of survey and geotechnical activities.</p> <div style="display: flex; justify-content: space-around;">    </div>	
<p>Completion Date: (Actual or Estimated):</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014 (A)	\$330 Million (Construction)	\$120 Million (Construction)

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary. NONE

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

ECM Consultants, Inc. **has never been involved** in any litigation and/or adversarial proceedings with Jefferson Parish.



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

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TEAM PROFILE

MINIMUM QUALIFICATIONS

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6. Adversarial Legal Proceedings with Parish
7. Prior Successful Completion of Projects

QUALITY CONTROL PLAN

CONCLUSION

TEAM PROFILE

ECM Consultants, Inc. (ECM) is an engineering, architectural, and construction management firm headquartered in Metairie, LA with full-service branch offices in Baton Rouge and Lafayette, LA. ECM was incorporated under the laws of the State of Louisiana on August 31, 1995, and holds current licenses in Professional Engineering (No. 2003), Architect-Engineering (No. AE0173) and Construction Management (No. 31739). Over the last 28 years, ECM has provided professional services on over a thousand projects in LA, MS, KY, TN, AR for clients including:

- Jefferson Parish Department of Public Works
- Louisiana Dept. of Transportation & Development
- Sewerage & Water Board of New Orleans
- City of New Orleans Dept. of Public Works
- City of Baton Rouge Dept. of Public Works
- Port of New Orleans
- USACE-New Orleans, Mobile, Charleston, Galveston, Vicksburg, Rock Island and Louisville Districts.
- USDA-NRCS
- CPRA
- SLFPA-East

The qualifications, integrity, reliability, and commitment of our personnel to provide quality professional services have earned ECM Consultants, Inc. an excellent reputation and repeat work from our clients. **About 95% of our work is repeat business from existing customers.**

ECM will serve as the **Prime Consultant** on this contract with the following specialty firms as sub-consultants:

Bryant Hammett & Associates, LLC (BHA) is a Louisiana-based Limited Liability Corporation, multidisciplinary consulting, land surveying, civil engineering, and disaster response consulting firm that provides services for various governmental and private concerns. BHA is comprised of highly qualified, experienced and licensed engineers, surveyors, technicians, cost estimators, GIS managers, certified floodplain managers, administrators, disaster recovery subject matter experts, inspectors, CADD operators and clerical support. Their central locations in Harahan, Baton Rouge, Gonzales, Belle Chasse and Ferriday, LA allow them to easily provide professional services throughout the state.

Gulf South Engineering & Testing, Inc. Gulf South Engineering & Testing (**Gulf South**) is a geotechnical engineering and construction materials testing and inspection company that began operations in 2011. Since that time, they have grown to 2 offices and over 30 employees. Gulf South provides a broad range of geotechnical related services. Our key employees' combined work experience totals more than 75 years and thousands of projects.

IMC Consulting Engineers, Inc. (IMC) is a mechanical, electrical, and plumbing design firm headquartered in Metairie, LA that works on projects such as stormwater drainage pumping systems, sewerage pump stations improvements, lighting and power system. IMC's engineers, technicians and support staff routinely provide high quality design and planning services for Jefferson Parish, U.S. Army Corps of Engineers, S&WBNO, Louisiana National Guard, Port of New Orleans and other state, federal and local agencies.

MINIMUM QUALIFICATIONS

Minimum Requirements	Personnel Meeting Requirements
1. The persons or firms under consideration shall have at least one (1) principal who is a licensed, registered professional engineer in the State of Louisiana	Ujjal DasGupta, P.E., President 54 years' experience LA License No. 19849
2. The persons or firms under consideration shall have a professional in charge of the Project who is a licensed, registered professional engineer	Kazem Alikhani, P.E. Project Manager 44 years' experience LA License No. 25073

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

in the State of Louisiana with a minimum of five (5) years' experience. "PROFESSIONAL IN CHARGE OF PROJECT:"	
3. The persons or firms under consideration shall have one (1) employee who is a licensed, registered professional engineer in the State of Louisiana in the applicable discipline involved.	<p>Ujjal DasGupta, P.E. LA Civil Engr. #19849</p> <p>Kazem Alikhani, P.E. LA Mechanical Engr. #25073</p> <p>Sudhir Mehta, P.E. LA Civil/Structural Engr. #18950</p> <p>Sunina Shrestha, P.E. LA Civil Engr. #37901</p>

varying from 30 cfs to 350 cfs for various clients. He has a BS in mechanical Engineering and MS in civil/H&H engineering. He is a Louisiana registered Professional Engineer.

Sudhir Mehta, P.E., Project Engineer/Structural Engineer: Mr. Mehta has 49 years of experience in the design, analysis and construction of major hydraulic structures such as pumping stations, floodwalls, floodgates, and other flood control structures for multiple USACE districts, states and municipalities. He has designed several pumping stations for SWBNO, USACE and Jefferson Parish of capacities varying from 30 cfs to 1200 cfs. He has a BS & MS in Civil Engineering and is a LA licensed Professional Engineer.

Sunina Shrestha, P.E., Civil/H&H Engineer. She has a M.S. degree in Civil Engineering with major in H&H engineering and has over 16 years of experience. She is a registered Professional Engineer in Louisiana. Her experience includes H&H modeling, water resources projects, pump stations, open channel hydraulics and major drainage systems. Ms. Shrestha is very proficient in the use of **HEC- RAS, HEC- HS, SWMM5**, ArcGIS, AutoCAD, and Civil 3D. She was involved in modeling and civil design for several drainage pump stations for USACE and Jefferson Parish.

John Rasi, P.E. Senior H&H Engineer/ Modeler. Mr. Rasi has 41 years of hydraulic and hydrologic engineering experience that includes a 25-year career with LADOTD and a 4-year career with Louisiana Department of Natural Resources. He served as Manager of Hydraulic Engineering Department for DOTD and Hydraulic Engineer for DNR. He is highly experienced in **H&H modeling, and use of HEC-RAS, HEC-HMS, SWMM5**, computer models for hydrologic and hydraulic analyses of watersheds. He has a BS in Civil Engineering, and he is a Louisiana registered professional engineer.

Christopher Capretto, P.E. Civil Engineer. Mr. Capretto has 16 years of experience in engineering design of drainage pump stations, subsurface drainage design including hydraulic analysis conforming to LADOTD hydraulic manual and software, data collections, review of as-built plans and field inspections for drainage and hydraulic structures design.

Missy Reynolds, EI, Civil/H&H engineering Support. Ms. Reynolds has 27 years of experience in project management, hydraulic study and drainage system analysis including drainage structures, canals, and water resource facilities. She performed Hydraulic Study for Waggaman, Jefferson Parish, Cypress Park and Erindale Subdivisions Hydraulic Study for St. Tammany Parish using EPA SWMM hydraulic program to determine

EVALUATION CRITERIA

1. PROFESSIONAL TRAINING AND EXPERIENCE

ECM Team has extensive experience in design, preparation of plans, specifications, and estimates (PS&E) and construction administration of many drainage pumping stations of capacities starting from **30 cfs to 1200 cfs**. ECM has an excellent reputation and is the Best-in-Class to provide professional engineering services for this project for Jefferson Parish. ECM has 18 professional engineers of various disciplines who are registered and licensed to practice in Louisiana. Detailed resumes of all our key personnel and technical support staff are **included in Section "K"** of this TEC Questionnaire.

The following are brief overview of our key staff members:

A. EXPERIENCE & TRAINING OF KEY PERSONNEL

Ujjal DasGupta, P.E., Principal: Mr. DasGupta has a B.S. degree in Civil Engineering and over 54 years of experience in project management, civil and structural engineering design and construction management. He has been responsible for engineering design and construction management services for several billion dollars projects for various local, state and federal agencies. He has designed several drainage pumping stations of capacity of 1200cfs for SWBNO. He was also involved in design of several smaller pumping stations for Jefferson Parish. Mr. DasGupta is a Louisiana registered Professional Engineer.

Kazem Alikhani, P.E., Professional in Charge of Project/POC: He has over 44 years of experience managing public works projects including planning, design, and construction management. Under his direction as Jefferson Parish Director of Public Works, he was responsible for all public works functions and managing nine departments. This included project planning, design and management of projects from inception to completion. At ECM, he is serving as Project Manager for several drainage pumping stations of capacities

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

adequacies of the existing drainage systems and required improvements. She has a BS in civil engineering.

Neil Logan, P.E., Structural Engineer. He has a B.S. degree in Civil Engineering and is a registered Professional Engineer in Louisiana. He has 53 years of experience in design of drainage pumping stations, commercial buildings, warehouses, maintenance and industrial facilities, transportation projects, floodwalls, breakwaters, and bridges.

Kumar Ambati, E.I., Civil/Structural engineering design support Mr. Ambati has 5 years' experience in structural and civil design, preparation of construction drawings using CAD for various types of projects such as roads, drainage, utilities and bridge projects, concrete and steel structural projects such as box culverts, flood walls, drainage structures etc.

Chad Vosburg, P.E. Construction Administration: Mr. Vosburg has over 30 years of professional engineering experience in contract administration and supervision of resident inspection services including a 25-year career with LADOTD. His projects have included drainage pump stations, highway and bridge construction including subsurface drainage system and utilities as well as emergency restoration. As District 61 Administrator for LADOTD he provided leadership and directed all Baton Rouge operations including construction, maintenance, engineering, public works, and other LADOTD facilities throughout the 9 parish District 61 Area.

Manny Aspuria, Resident Inspector Mr. Aspuria has over 36 years of experience in operations and maintenance of Jefferson Parish Pump Station. Mr. Aspuria started his career as a pump station operator and was promoted to Pump Station Superintendent for the East Bank. He then was promoted to O&M Manager in charge of all East and West Bank pump station improvements. He is currently providing resident inspection services for Veterans (North and South) drainage pump stations.

Marvin May, CAD Technician has over 22 years of experience in AutoCAD drafting, including preparation of plans and profiles, typical sections, cross sections and miscellaneous details for sewer lift stations, drainage pump stations, roadway; drainage, water and sewer system projects.

Hugh 'Bud' McCurdy, III, PLS, Professional Land Surveyor (BHA). Mr. McCurdy has extensive experience in all aspects of surveying, including but not limited to property boundary surveys for real estate transfer; subdivision and re-subdivision of properties; topographic and hydrographic survey for engineering

and construction; and preparation of legal descriptions for attorneys.

Bryant Hammett, P.E., PLS, Land Surveyor (BHA). He served as surveyor and engineer of record for numerous types of projects including roads and bridges, drainage system, wastewater collection and treatment facilities; water treatment facilities, water supply transmission and distribution systems, natural gas distribution and transmission; electrical transmission; oil transmission; levee systems.

Paul Vlosich, P.E, Electrical Engineer (IMC). Mr. Vlosich serves as the Director of Municipal and Industrial Projects. He oversees design and preparation of PS&E for conformance with project scopes, code compliance and quality control for electrical, controls and SCADA system. His pump station experience includes Veterans Blvd. (North and South), West Esplanade Pump stations, Elmwood Pumping Station, Parish Line Pumping Station and addition of a New Pumping Station and Storm proofing of existing Pumping Station no. 5 in Orleans Parish.

Eugene "Chip" F. Higbee, III, P.E, Mechanical Engineer (IMC). Mr. Higbee has over 32 years of experience in mechanical engineering design and oversight with main focus in piping, HVAC systems, plumbing and fire protection systems. He was involved in mechanical system design for Elmwood Drainage Pump Station, Parish Line Pumping Station in Jefferson Parish and 17th Street Canal, London Avenue Canal, and Orleans Avenue Canal Closure Structures Permanent Pump stations in Orleans Parish.

Chad Poche', P.E. Geotechnical Engineer (Gulf South) consulting geotechnical engineer for more than 20 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He is a licensed Louisiana P.E.

Bryson Beard, P.E., ACI, Geotechnical Field Engineer (Gulf South) is an Associate Geotechnical Engineer/Field Engineer. He has performed geotechnical engineering analyses consisting of shallow and deep foundations, slope stability, TRS and sheet pile 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.

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

B. RELEVANT PROJECT EXPERIENCE

Our track record in designing various types and capacities drainage pumping stations for USACE, SWBNO and Jefferson Parish is the testimony of our experience and expertise in design of pump stations. The following are example of a few:

Veterans Blvd (N&S) Drainage Pump Stations, Metairie

Client: Jefferson Parish Dept. of Public Works

ECM performed hydraulic analysis and modeling, engineering design, prepared PS&E and 408 permitting from USACE for these two new drainage pump stations that discharge into the 17th Street Canal. The maximum pumping capacity for these pump stations are **60 CFS** (using 2-30 cfs pumps) for Veterans South and **85 CFS** (2-42.5 cfs pumps) for veterans North.

Westwego No. 1 Pump Station, Jefferson Parish, LA

Client: USACE New Orleans District

ECM provided engineering design of a **375 CFS drainage** pump station using **3-125 cfs** axial flow pumps driven by electric motors suitable for outdoors use, including full automation with controls and SCADA systems.

Coventry Pump Station, River Ridge, LA

Client: Jefferson Parish Department of Public Works

The pump station is designed for total capacity of **90 CFS** with **3-30 CFS submersible pumps**. The structure is designed to accommodate a future fourth **30 CFS pump** when the need arises. ECM has provided engineering design for the civil, structural, and electrical, and instrumentation, through and controls through subconsultant. The Ductile Iron discharge pipe manifolds will cross **over the levee** and will terminate at the protection dolphins in the river.

Highway 45 Pump Station, Lafitte, Louisiana

Client: Town of Jean Lafitte

ECM Consultants has prepared plans and specifications and estimated (PS&E) for a drainage pump station with a capacity of **30 CFS** to serve the Lafitte community. The pump station will consist of two direct drive axial flow pumps, each with a capacity of **15 CFS**. The pump station will be located at the site of a adjacent to the existing pump station on LA Hwy 45 in Jefferson Parish, and will discharge into the bayou Barataria.

Drainage Pump Station No. 11, New Orleans, LA

Client: S&WBNO

ECM performed engineering design and hydraulic analysis, for intake canal improvements, structural design for pile supported intake and discharge basins including wing walls as well as prepared PS&E and construction administration for the expansion of the pump station to **1000 cfs** with two (2)- 500CFS pumps.

Elmwood & Cousins Pump Stations, Jefferson Parish, LA

Client: USACE New Orleans District

ECM provided planning, engineering design, preparation of final construction plans and specifications, EDA and EDC services for Cousins Pump Station No. 01, 02, and 03 and Elmwood Pump Stations. The purpose of this project was to provide storm proofing design for the building envelopes as well as the ancillary systems to achieve reliable and redundant systems to insure sustained operation of the drainage pump stations during storm events

W. Esplanade Drainage Pump Station, Jefferson Parish

Client: Jefferson Parish Dept. of Public Works ECM provided hydraulic modeling and analysis, civil, structural and mechanical engineering design prepared PS&E for this new drainage pump station that will discharge into the 17th Street Canal. The maximum pumping capacity for this pump station is **180 CFS** using 2-60 CFS and 2-30 CFS axial flow pumps.

2. SIZE OF FIRM

ECM has **72** qualified professional engineers and support staff to work on this project to provide high quality professional services. ECM has sixteen civil engineers, two structural engineers, four project managers, two engineering interns, two mechanical engineers, one electrical engineer, one grant specialist, one architect, thirty-two construction inspectors, three CAD technicians, and eight administrative and support staff.

3. CAPACITY FOR TIMELY COMPLETION OF WORK

ECM understands the requirements of successfully managing and executing contracts. Contracts will be staffed by personnel with the technical expertise, resources, and capacity to effectively fill the needs of the project. Our efficient approach to scheduling our work allows ECM personnel to provide all required man-hours for each of our ongoing projects.

4. PAST PERFORMANCE ON SIMILAR PROJECTS

ECM has successfully completed a number of projects for Jefferson Parish and various federal and state government agencies and has received "**Exceptional**" performance ratings relative to controlling costs, quality of work, and maintaining the contract's schedule. We take pride in completing projects on-schedule and within budget, and as a result we have been rewarded with repeat contracts.

Below are examples of projects completed within budget and on time:

- **Contract No. W912P80-07-D-0031 for the U.S. Army Corps of Engineers- HPO:** ECM was the managing J/V partner. A total of 97 Task Orders were issued, 90 percent of which received **"Exceptional"** ratings and the remaining 10 percent received **"Very Good"** ratings.
- **Contract No. W912P80-07-D-0067; U.S. Army Corps of Engineers, New Orleans District:** ECM was the managing J/V partner. A total of 275 task orders were issued and we received **"Exceptional"** rating for all task orders.
- **Contracts No. C-FTW-00366 and 00411; U.S. HUD, Atlanta Contracting Operations, Fort Worth Texas:** ECM received an **"Outstanding"** performance rating for both of these contracts. *The evaluation report states: "The contractor has demonstrated an outstanding performance level that was significantly in excess of anticipated achievements and is commendable as an example for others, so that it justifies adding a point to the score. It is expected that this rating will be used in those rare circumstances where contractor performance clearly exceeds the performance levels described as Excellent."*
- **Orleans Avenue Canal, Remediation of Canal Walls and Levees, Orleans Parish, LA** USACE -HPO/NOD ECM-GEC JV IDIQ Contract No. W912WP8-07- D0031, Task Order 0052, JV DUNS No. 62-1641435. ECM served as contract Manager. Overall CPARS rating: **"Exceptional"**. This emergency project received accolades from Corps Project manager for completing design of project within mandated 90 days. *Rating Official Remark "Easy to work with, produced quality product within established milestones and budget guidelines". Structural and Civil Design rating: "Exceptional"*
- **Storm Proofing Jefferson Parish Pump Stations, Jefferson Parish, LA.** USACE -HPO/NOD ECM-GEC JV IDIQ Contract No. W912WP8-07- D0031, Task Orders: multiple task orders with similar project scopes, JV DUNS No. 62-1641435. ECM served as contract Manager. Overall CPARS rating: **"Very good"** in all rating categories. *Rating Official Remark. "The A/E was very effective and displayed good technical skills in designing the storm proofing measures for the pump stations."*
- **West Shore Lake Pontchartrain Flood Risk Reduction Project, Segments WSLP 102 and WSLP 106,** USACE New Orleans District Contract No. W912 P8-16-D- 0005, TO. 11. ECM received **"Exceptional"** performance rating

5. LOCATION OF PRINCIPAL OFFICE

ECM Consultants, Inc.'s principal office is located in Jefferson Parish at 1301 Clearview Parkway, Suite 200, Metairie, LA 70001. All work by ECM will be performed from this office. Our Geotechnical sub, Gulf South will work from Kenner, LA., Mechanical and Electrical Engineering sub, IMC will work from Metairie, LA. and Surveying services sub, BHA will work from Harahan, LA.

6. ADVERSARIAL LEGAL PROCEEDINGS BETWEEN THE PARISH AND FIRM

ECM Consultants, Inc. **has never been involved** in any litigation and/or adversarial legal proceedings with Jefferson Parish

7. PRIOR SUCCESSFUL COMPLETION OF PROJECTS

ECM has received **"Exceptional"** performance ratings from various USACE Districts, an **"Outstanding"** performance rating from U.S. HUD, and **"Letters of Commendation"** from the U.S. Customs Service, USDA, U.S. HUD, U.S. Army Corps of Engineers-NOD, and various other local government agencies such as Jefferson Parish DPW, City of New Orleans-DPW, Calcasieu Parish Policy Jury, and many more.

Below are some of our completed projects and references of our clients:

- **Veterans Blvd (N&S) Drainage Pump Stations, Metairie** (Under construction)
Jefferson Parish Dept. of Public Works
Gary Lehmann, Project Manager, 504.736.6779
Gary.Lehmann@jeffparish.net
- **Coventry Pump Station, River Ridge, LA**
(Design 95 % complete. Under permit review by Corps)
Jefferson Parish Drainage Department
Ben Lepine, Drainage Director, 504.736.6751
BLepine@jeffparish.net
- **Westwego No. 1 Pump Station, Jefferson Parish, LA.**
USACE Contract No. W912P8-07-D-0031, T.O. 0058 and 0064,
Dan Bradley, P.E., USACE New Orleans, 504-862-2201
Daniel.F.Bradley@USACE.army.mil
- **Velasco East Levee Drainage Pump Station, Brazoria County, Texas** (Sub to AECOM)
Al Naomi, Project Manager, AECOM, 504.939.2041
al.naomi@aecom.com
- **IDIQ contract W912P807-D0031, General Design, Multidiscipline and CM services, USACE-NOD**
Daniel Bradley, P.E., USACE-NOD, 504-862-1029

- **Storm proofing Jefferson Parish Pump Stations, USACE-New Orleans District**
 Dan Bradley, P.E., USACE New Orleans, 504-862-2201
Daniel.F.Bradley@USACE.army.mil

QUALITY CONTROL PLAN

ECM Consultants, Inc. has an excellent quality control program. During the design phase the project manager is responsible for establishing design criteria in consultation with the owner. Before the start of a project, the project manager will meet with all staff (project engineers, junior engineers, and the CAD operator) to communicate the project scope, design criteria, drafting standards, coordination requirements with various disciplines, completion schedules for various phases, and, most importantly, the project goal and Owner's expectation of high-quality professional work. The project manager is responsible for coordination with the owner and project engineers. All of our staff members are conscientious, thorough and understand the importance of preparing construction documents with a standard of care exceeding the industry standard. The criticality of following design procedures is consistently emphasized, and all drafting is thoroughly checked by the design engineers.

Routine progress meetings are held to determine progress, coordination, and resolution of challenges associated with the project. The project engineer checks design computations and drawings at every stage for quality assurance.

After completion of the construction documents, our experienced personnel perform a "constructability review" to avoid any conflicts which may arise during construction. The final review is performed by the project manager and then submitted to a third party for peer review depending upon the complexity of the project. Our quality control program has resulted in the production of virtually error-free construction documents and has minimized possible change orders during construction.

The quality control program during construction is also the responsibility of the project manager, who, accompanied by the design engineer, is required to visit the site at least once a week and also during important and critical work activities. If required, an experienced full-time resident inspector is assigned to the project to monitor work activities of the Contractor to ascertain that the project is constructed strictly in accordance with the plans and specifications and high standards of workmanship. No deviations from plans and specifications are allowed unless approved by Owner in writing.

CONCLUSION

The ECM Team exceeds the necessary qualifications, experience, and capability to perform the services required under this contract. We are poised for immediate assignment and look forward to providing exceptional services to Jefferson Parish. We thank you for this opportunity to submit our qualifications and hope to receive favorable consideration.

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

Signature: 

Print Name: Kazem Alikhani, P.E.

Title: Chief Executive Officer

Date: 08/28/2024

Section 2

Bryant Hammett & Associates, LLC

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provide Engineering Services, Independence Park Pump Station, Resolution 144443

B. Firm Name & Address:

Bryant Hammett & Associates, LLC
 1104 Dealers Avenue
 Harahan, LA 70123

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:

Bryant O. Hammett, Jr. PE/PLS
 Owner/Manager
 bhammett@bha-engineers.com
 504-733-8004

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.

Hugh McCurdy, III, PLS
 Professional Land Surveyor
 hmccurdy@bha-engineers.com
 504-733-8004

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

<u> 3 </u> Administrative	<u> 0 </u> Estimators	<u> 0 </u> Specification Writers
<u> 0 </u> Architects (Licensed)	<u> 1 </u> Geologists	<u> 0 </u> Structural Engineers
<u> 0 </u> Chemical Engineers	<u> 0 </u> Geotechnical Engineers	<u> 0 </u> Graduate Engineers
<u> 2 </u> Civil Engineers	<u> 0 </u> Interior Designers	<u> 4 </u> Project Managers
<u> 6 </u> Construction Inspectors	<u> 0 </u> Landscape Architects	<u> 3 </u> Clerical
<u> 0 </u> Ecologists	<u> 8 </u> Land Surveyor	<u> 0 </u> Grant/Funding Specialist
<u> 0 </u> Electrical Engineers	<u> 0 </u> Mechanical Engineers	<u> 0 </u> Sanitary Engineers
<u> 0 </u> Engineer Intern	<u> 0 </u> Environmental Engineers	
<u> 3 </u> Professional Land Surveyors		<u> 30 </u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1.
NOT APPLICABLE

2.

H. Has this JOINT-VENTURE previously worked together? Please check:
 YES NO NOT APPLICABLE

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. NO SUBCONTRACTORS		
2.		
3.		

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

10

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:

Bryant O. Hammett, Jr.
Professional Engineer/Professional
Surveyor/Owner/Manager

Project Assignment:

Principal and registered professional land surveyor in Louisiana

Name of Firm with which associated:

Bryant Hammett & Associates, LLC

Years' experience with this Firm:

40

Education: Degree(s)/Year/Specialization:

BSCE/1978/Civil Engineering

Active registration: Year first registered/discipline:

1983/Professional Civil Engineer, LA 1996/Environmental Engineering, LA
1985/Professional Land Surveyor, LA 1985/Civil Engineering, MS

Other experience and qualifications relevant to the proposed Project:

Bryant O. Hammett, Jr. P.E./P.L.S. is the sole proprietor and principal of Bryant Hammett & Associates, LLC. He founded in 1984, providing engineering and land surveying services for sewer, water, gas, streets, landfill, and drainage projects for public bodies, as well as for the private sector.

He is a registered Professional Land Surveyor (PLS) and Civil Engineer (PE) in the state of Louisiana

Hammett has been the surveyor of record for numerous types of public works projects, including wastewater collection and treatment; water treatment, transmission and distribution; natural gas distribution and transmission; electrical transmission; oil transmission; off-system bridges; levee systems; construction servitudes; and roadway and drainage.

As infrastructure manager for the Louisiana Office of Community Development's Disaster Recovery Unit, Hammett performed and oversaw professional civil, structural and/or transportation engineering work related to the planning, design, development, construction, and maintenance of projects funded under the LCDBG/DRU program. Such projects included capital improvements, storm water and drainage systems, wastewater systems, potable water systems, natural gas systems, fire protection systems, roads, bridges and utility systems.

Hammett manages a staff of highly qualified, experienced and licensed engineers, surveyors, technicians, cost estimators, GIS managers, certified floodplain managers, administrators, disaster recovery subject matter experts, inspectors, CADD operators and clerical support.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Hugh 'Bud' McCurdy, III Professional Land Surveyor
Project Assignment:
QAQC Manager
Name of Firm with which associated:
Bryant Hammett & Associates, LLC
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
non-degreed
Active registration: Year first registered/discipline:
1991/Professional Land Surveyor, LA
Other experience and qualifications relevant to the proposed Project:
<p>Mr. McCurdy is a registered land surveyor in Louisiana with over 50 years' experience in land surveying, beginning his career as a rodman in 1973. McCurdy works with multiple engineering consultants throughout Louisiana.</p> <p>He is involved in all aspects of boundary/property surveys for real estate transfer and the surveying required for engineering, rights-of-way acquisition, and construction projects, and is responsible for courthouse research and coordination of work.</p> <p>McCurdy has provided surveying services for oyster leases; pre- and post-dredging; construction projects, pipelines, accident sites, and boundary establishment. He is responsible for supervision of all field crew activities, drafting, property descriptions, plats, and all surveying-related operations.</p> <p>He conducts property surveys to establish rights-of-way, prepares legal descriptions for clients and attorneys. He has designed several subdivisions for development, providing surveys, preparation of plats, providing as-builts on all utilites, layout of sewer and drainage, and staking all utility structures,</p> <p>Mr. McCurdy has extensive experience in all aspects of surveying, including topographic, utility, boundary, hydrographic, ALTA survey, and resubdivisions.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jeff Carey, PLS, CFM Professional Land Surveyor
Project Assignment:
Survey Manager
Name of Firm with which associated:
Bryant Hammett & Associates, LLC
Years' experience with this Firm:
12
Education: Degree(s)/Year/Specialization:
BS/2009/Disaster Management
Active registration: Year first registered/discipline:
2024/Professional Land Surveyor 2010/ASFPM Certified Floodplain Manager 2018/ATSSA Traffic Control Supervisory, Technician, Flagger 2012/Residential Contractor's License
Other experience and qualifications relevant to the proposed Project:
<p>Jeff Carey graduated from LSU in 2009 and began working with BHA in 2012. He is a registered Professional Land Surveyor (PLS.5334)</p> <p>As a ssurveyor for Bryant Hammett & Associates, Mr. Carey manages field work, collects data in the field and performs field-checking duties at project completion. He manages boundary and topographic surveys and all surveying activity required for engineering, rights-of-way, and construction projects.</p> <p>Carey is involved in the day-to-day management of all field crews and CADD technicians. He develops scopes and budgets for all projects, provides onsite instruction to crews, confers daily with management, and is the overall manager of ongoing projects.</p> <p>He is involved in all aspects of land surveying projects, including legal descriptions and elevation certificates. He has managed several projects from project execution to completion on numerous public works projects includeing roadway, drainage, sewerage and waterline projects. He also manages levee construction projects, property boundary surveys, cadastral surveys, topographic surveys, utility surveys, differential GPS real time surveys, hydrographic surveys, GPS static surveys for horizontal and vertical control, planimetric surveys, elevation surveys and subdivision layout.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jeff Dumestre, LSI Survey Technician, CADD Drafter
Project Assignment:
Drafting
Name of Firm with which associated:
Bryant Hammett & Associates, LLC
Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
BS/2014/Geomatics
Active registration: Year first registered/discipline:
2022/Land Survey Intern 2022/ATSSA Traffic Control Supervisor, Technician, Flagger
Other experience and qualifications relevant to the proposed Project:
<p>Jeff Dumestre graduated from Nicholls in 2014, where he was President of the Geomatics Student Association. He is a registered Land Survey Intern (LSI.00746) and is a member of the Louisiana National Guard, where he has been a Field Artillery Surveyor and Technical Engineer.</p> <p>He has over 15 years' experience in the land surveying field and is certified in the Small Unmanned Aircraft System (drone), Certification 4535630.</p> <p>As a survey technician, Dumestre has led survey crews in Construction & Industrial Layouts/ Stakeouts, Topographic, DOTD, Drainage, Boundary surveys, Elevation Certificates, Slab surveys, No Work Affidavits, and ALTA surveys. He maintains and calibrates survey equipment, works with the field crews to introduce efficiencies in data collection, and uses drone technology to enhance deliverables.</p> <p>Dumestre provides computer-aided drafting and design for survey projects, including: drainage, roadway, waterline, levee and sewerage projects. He drafts levee surveys; hydrographic and topographic surveys; and rights-of-ways maps. He is proficient in Civil 3D drafting software.</p> <p>He has experience in the drafting required for all public works projects, as well as coastal restoration projects.</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. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Avenue A. Drainage Improvements (2022-012-DR) Jefferson Parish Jefferson Parish Dept of Capital Projects 1221 Elmwood Park Blvd; Suite 906 Jefferson, LA 70123 504-736-6833	BHA provided a topographic, utility and right of way survey of Avenue E and the intersecting side streets Iona, Hector, Betz, Vincent, and Stella, including outfall pipes in the 17th Street Canal and the overhead transmission line to aid in future drainage improvements. The retaining wall structure along the 17th St. Canal at the proposed outfall area was identified. Manhole inverts for drainage and sewerage lines were obtained in the field. BHA performed the necessary research and field work to identify the right-of-way along each street included within the project limits.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
November 2022	unknown	\$50,530

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Independence Park Drainage Improvements Jefferson Parish, LA Jefferson Parish Dept of Capital Projects 1221 Elmwood Park Blvd; Suite 906 Jefferson, LA 70123 504-736-6833	BHA performed a topographic, cross-section, and utility survey for approximately 4800' for the first phase of the Independence Park Drainage project in Metairie. BHA established horizontal and vertical reference points for the project; collected topographic features such as culverts, drains, inlets, pavements, trees, utility poles, curbs, heavily wooded areas, vegetation, property lines, driveways; cross sections were taken along the route every 50 feet and at parking lots. All utility features were identified, such as valves, hydrants, meters, utility poles, utility boxes, etc. and pipe data collected.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2020	unknown	\$28,373

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Lincoln Manor Drainage Improvements Project</p> <p>Jefferson Parish, LA</p> <p>City of Kenner Jim Wilson, P.E. (MSMM) 4640 South Carrollton Ave; Ste 2200 New Orleans, LA 70119 (504) 509-7706</p>	<p>BHA provided surveying services for a two-phase drainage improvement project in Jefferson Parish in the Lincoln Manor subdivision.</p> <p>BHA established control points and benchmarks; collected topographic features such as culverts, drains, inlets, pavements, bushes, trees, perimeter outlines of heavily wooded areas, vegetation, utility poles, overhead electric, fences, curbs, driveways, etc. Cross-sections were collected every 50-feet.</p> <p>Utilities such as valves, hydrants, meters, utility poles, utility boxes, overhead electric lines, communication systems were collected. Inverts for drainage and sewerage lines were collected in the field. The type, size, and invert of the outfall pipes draining into Canal #13 were identified on the survey.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2022	unknown	\$25,400

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Ormond Oaks/Primrose Drainage Project</p> <p>St. Charles Parish, LA</p> <p>St. Charles Parish Department of Public Works 100 River Oaks Drive Destrehan, LA 70047 (985) 783-5000</p>	<p>As part of an overall and ongoing parish drainage improvement project, BHA provided topographic, cross section, utility, and right-of-way surveying in the following areas of St. Charles Parish: 1) Primrose Canal from the Cousin Canal to the Blouin Canal and 2) Canal A, Carriage Canal and Dunleith Canal, Carriage Canal and Houmas Canal.</p> <p>Topographic data was collected at each headwall and to show erosion; cross sections were collected at 100-foot intervals; and all drainage culverts entering the canal were identified.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
November 2023	unknown	\$98,900

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Ridgelake Drive Drainage Improvements Jefferson Parish, LA Jefferson Parish Dept of Capital Projects 1221 Elmwood Park Blvd; Suite 906 Jefferson, LA 70123 504-736-6833	BHA provided a topographic, cross section, and utility survey for the Ridgelake Drive Drainage Improvements Project, located in Metairie, Louisiana. The length of the project along Ridgelake Drive is approximately 1,660 feet. Additionally, the survey extended 50 feet past the north and south ends of the project, and 50 feet past the apparent R/W lines down the intersecting streets. At the Ridgelake Drive / West Esplanade Canal intersection, the survey extended 100 feet east of the road centerline and 50 feet west of the roadway centerline. BHA recently provided a boundary survey of an area surrounding the proposed outfall pipe relocation along Ridgelake Drive and West Esplanade.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2022	unknown	\$25,570

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Sylvia Estates Pump Station St. Bernard Parish St. Bernard Parish Government Meyer Engineers 4937 Hearst St. Metairie, LA 504-885-9892	BHA completed a topographic and cross section survey performed for the Sylvia Estates Pump Station design in St Bernard Parish, Louisiana. The survey limits included the 40 Arpent Canal and the drainage canal that ties into the 40 Arpent from Highway 46, as well as the portion of the levee for the proposed pump station. BHA performed the necessary research, field work, and calculations to identify the property lines along the drainage canal running North/South between the 40 Arpent and Hwy 46. Any known servitudes along the drainage canal were noted on the survey. BHA provided a FEMA Elevation Certificate and a Certified Benchmark Certificate.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2023	unknown	\$20,990

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bonnabel Boulevard Drainage Improvements</p> <p>Jefferson Parish</p> <p>Jefferson Parish Department of Capital Projects 1221 Elmwood Park Blvd; Ste 906 Jefferson, LA 70123</p> <p>504-736-6779</p>	<p>BHA provided topographic, utility, and SUE surveying for this project. For approximately 1.5 miles, all utility information was collected including items such as valves, hydrants, meters, utility poles, utility boxes, overhead electric lines, communication systems, etc, as well as manhole inverts for drainage and sewerage lines.</p> <p>A SUE survey was performed to identify the location of only the 42" Sewer Force main in the grass alley between the intersection of Hesiod Street and the I-10 Service Road.</p> <p>After the best route was determined, BHA will completed the surveying for the selected route.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2024	unknown	\$102,212

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bainbridge Canal Closure and Roadway Improvements (2020-09-RBP)</p> <p>Jefferson Parish</p> <p>Gene Gillen, APTIM 2424 Edenborn Ave. Metairie, LA 70001</p> <p>504-832-4878</p>	<p>BHA performed a topographic, cross-section, and utility survey an area along the westbound lanes of Veterans Blvd. from Virginia to Bainbridge (not eastbound lanes), then continuing down Bainbridge to the entrance to the Airport, as well as the canal along Bainbridge Avenue.</p> <p>BHA collected topographic features such as culverts, drains, inlets, pavements, trees, utility poles, curbs, heavily wooded areas, vegetation, property lines, driveways.</p> <p>Cross sections were taken along the route and included shots across the drainage canal: top bank, toe of canal, centerline, water elevation, width of canal.</p> <p>All utility features were collected, such as valves, hydrants, meters, utility poles, utility boxes, etc. Manhole inverts for drainage and sewerage lines were obtained in the field for profile information. Apparent right-of-way information was shown.</p> <p>BHA has been providing right-of-way services for this project on an on-going bases.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
August 2024	unknown	\$49,287

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Crown Point Drainage Improvement Project</p> <p>Jefferson Parish, LA</p> <p>Lafitte Area Independent Levee District David Dupre, P.E. (MEL) ddupre@meyer-e-l.com (504) 231-2869</p>	<p>This project consisted of designing pumps stations and drainage improvements in the Crown Point area and vicinity. Design was completed for a 10-year storm event in accordance with Jefferson Parish Standards, and the drainage was tied into the existing drainage system.</p> <p>BHA completed a topographic, utility, and cross section survey in five different areas: Glisson Park Pump Station; Sharpe Road Pump Station; North Sharpe Road Drainage; South Sharpe Road Drainage; and Southwest Pump Station and Southwest Drainage Area.</p> <p>For each of the pump stations (150 X 300' each), topographic features were collected, including culverts, drains, ditches, pavements, trees, curbs, etc. Cross sections were collected at 50-foot intervals extending to the center of Bayou Barataria.</p> <p>The survey extended across North Sharpe Rd. from apparent right of way to apparent right of way, including the roadside ditches, all culverts, drains, etc. Cross sections were collected at 100-foot intervals. BHA recently performed a boundary survey to establish utility servitudes.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2022	unknown	\$52,600

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>E. Rutland Street Drainage Improvements,</p> <p>St. Tammany Parish, LA</p> <p>City of Covington</p>	<p>BHA provided surveying services for the replacement of sub-surface drainage and the construction of new sub-surface drainage along East Rutland Street in Covington, LA. The project also included cold plane and overlay of Rutland Street and the replacement of a box culvert.</p> <p>BHA performed control surveys; established permanent benchmarks; collected spot elevations; located all above-ground structures, trees, wooded areas, power, communications, traffic systems, buildings, sidewalks, utilities; located soil bearing; located water and gas mains, central steam, and other utilities; collected location, depth, and direction of flow of sanitary sewers, combined sewers, storm sewers or drains, and culverts serving, or on, the property; location of catch-basins and manholes, and inverts of pipe at each; established rights of way of Rutland, Jahncke, Vermont, and Massachusetts Streets</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	unknown	\$10,900

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. NOT APPLICABLE	NOT APPLICABLE	

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

1. Professional Training and Experience :

Bryant Hammett & Associates, LLC (BHA) is a Louisiana-based firm specializing in civil engineering, land surveying, disaster management, and construction supervision. Established on August 1, 1984, BHA has expanded from a small four-member team to over 30 employees, serving both governmental and private clients across the Gulf South region. Our offices are strategically located in Jefferson, East Baton Rouge, Plaquemines, and Concordia parishes.

With over 40 years of experience, BHA has been a cornerstone in providing comprehensive civil engineering and land surveying services throughout Louisiana. Our registered professionals have decades of experience in public works projects including sewerage, water, roadway and drainage projects.

BHA employs professional civil engineers, professional land surveyors, a land surveyor-in-training, certified floodplain managers, a certified public accountant, draftsmen, construction managers and inspectors, and several support and administrative personnel. (see resumes)

2. Size of Firm

Bryant Hammett & Associates has grown from a small four-member firm in 1984 to 30 full-time employees today.

BHA employs two licensed Professional Engineers, three licensed Professional Land Surveyors, one licensed Land Survey Intern, a civil engineer (not licensed), multiple survey field crews, HMGP Subject-Matter Experts, several construction managers and inspectors, as well as multiple support staff. BHA's CADD Technicians have over 40 years of combined experience in producing 3D planimetric drawings, topographic and contour maps, right-of-way maps, boundary plats, cross section diagrams and field data points.

3. Capacity for Timely Completion:

Based on current and projected project workloads and schedules, BHA has the capacity to allocate necessary resources and manpower promptly. We currently have professional and support personnel readily available to deliver required services and can initiate them upon authorization to proceed. Our flexible staffing model allows us to scale up or down as needed for both large and small task orders.

No project in which BHA has been involved has been jeopardized because of failure to meet schedules. BHA has not been involved in any projects that were jeopardized because of cost overruns, or because inadequate designs were rejected by parish, state, or federal review agencies.

TEC Professional Services Questionnaire

4. Past Performance on Parish Contracts

BHA has been providing professional services to Jefferson Parish since 2012.

BHA routinely provides surveys directly to Jefferson Parish through our As-Needed Surveying contract. 2024 surveying projects include Fagot & Metairie Lawn Lift Station; Colonial Club Drainage Ditch; Metairie Road Decorative Street Lighting; Harvey WWTP; and BHA has completed over 16 surveys for the current Waterline Replacement Program with nine additional in contracting.

BHA is currently providing professional services for the Parish-wide Manhole Assessment and Lining Program, Phase 1 and 2.

Jefferson Parish has actively participated in HMGP and HMA Funding since 2006. BHA personnel have been involved with Jefferson Parish in over \$258 million in funding grants for the home elevation program, in response to Hurricanes Katrina, Rita, Gustav, Ike, Isaac, and Ida in the cities of Kenner, Gretna, Harahan, Westwego, Grand Isle, Jean Lafitte, Metairie, Marrero, River Ridge, Harvey, Barataria.

BHA recently managed Jefferson Parish's Disaster Recovery Homeowner Repair Program for Residential Properties through the Office of Community Development, where the construction supervision of approximately 160 individual properties was managed, including the monitoring of plans and construction to ensure compliance with applicable federal, state, and local guidance.

5. Location of Principal Office

All work will be performed out of our Harahan, LA office.

6. Litigation between the Public Entity and Firm:

BHA has no prior, on-going, or anticipated litigation with Jefferson Parish

7. Prior successful completion surveys for drainage project

BHA surveyors have extensive experience in the surveying required to support drainage and roadway infrastructure design and improvements, having performed the surveying required for complete subdivision designs, master drainage plans, lift station construction and relocation, force main installation and relocation, grading plans, and drainage studies. Topographic surveys completed to capture the terrain, vegetation, drainage patterns, ground elevations, improvements, pavements, culverts, manholes, ground slopes, ditches, roadways and utilities that are existing. These topographic surveys aid the design work which could include grading plans, roadway designs, drainage system designs, utility layout, pump station installation, and landscaping plans.

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

Signature:  Print Name: Elizabeth Tanner, CPA

Title: Manager Date: August 23, 2024

Section 3

Gulf South Engineering & Testing, Inc.

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Independence Park Drainage Pump Station
SOQ 24-029 | Resolution No. 144443

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>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: 24px;">N/A</div>		
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. <div style="text-align: center; font-size: 24px;">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="text-align: center; font-size: 24px;"> _____ 30 _____ (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:



Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

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

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

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

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

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)

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

Morton & Ingrid Pump Station Rehabilitation, Jefferson Parish, LA. Geotechnical investigation for below grade pump station replacement. Gulf South drilled 1 boring to 30 feet below the ground surface, provide laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding, and backfill recommendations, estimates of settlement, and general construction recommendations. (\$3,900 (fee); 2012)

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Eric A. Paille, C.E.T., ACI Construction Services Manager	
Project Assignment:	
Construction Services Manager	
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); 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:	
<i>High School Diploma</i>	
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>N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing for the project, located at the corner of N. Sibley Street and West Napoleon Avenue. Gulf South's scope of work includes soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing. (\$20,000 (fee); 2021)</p> <p>Replacement of Sewer Pump Station (SPS) 8, Sewerage & Water Board of New Orleans, LA. This \$15 million project consisted of the replacement of a sewer pump station for the Sewerage &</p>	

TEC Professional Services Questionnaire

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

Water Board of New Orleans. Gulf South provided field and laboratory inspection and testing of materials during construction (CMT). Our scope of services included performing: a pile load test, pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including field density tests, and steel inspection. (\$103,411 (fee); 2019)

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

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

Airline Park Blvd. Rehabilitation and Drainage Upgrade (W. Napoleon to Camphor), Jefferson Parish, LA. Geotechnical investigation for pavement rehabilitation, new drain lines, and a new pump station from W. Napoleon to Camphor. Scope of work included drilling four soil borings (depths of 15 & 50 ft), laboratory testing (strength and classification), and geotechnical engineering analysis consisting of allowable soil bearing values, allowable pile load capacities, estimates of settlement, pavement recommendations, bedding and backfill recommendations, and general construction recommendations. (\$8,500 (fee); 2015)

Pump Station A Investigation (St. Ann St. & Essence Way), Sewerage & Water Board of New Orleans, LA. Geotechnical investigation for determining existing pile foundation conditions for Pump Station A in the Treme-Lafitte neighborhood of New Orleans, LA. Gulf South's scope includes drilling three soil borings each to a depth of 120 feet, laboratory testing (strength and classification), and geotechnical engineering analysis consisting of allowable pile load capacities and general construction recommendations for repair of the damaged areas. (\$24,325 (fee); 2015)

Violet Pump Stations (3 Sites), St. Bernard Parish, LA. Geotechnical investigation for St. Bernard Parish at three proposed pump/lift station sites. Gulf South's scope of work included performing three soil borings each to a depth of 120 feet, lab testing, and geotechnical engineering analysis consisting of allowable soil bearing values, allowable pile load capacities, bedding and backfill recommendations, uplift pressures, estimates of settlement, and general construction recommendations. (\$15,000 (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)

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:

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

New Sewer Lift Station (Butler Drive & Grambling Street) E-10-1, Waggaman, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; backfill compaction testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$30,000 (fee); ongoing)

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

TEC Professional Services Questionnaire

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

Metairie Lawn Drainage Improvements, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; earthwork inspection and testing, and; soil density tests. (\$5,000 (fee); ongoing)

East Bank Transit Operations Facility, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; soil density tests; earthwork inspection and testing; pile inspection and modeling; vibration monitoring; asphalt inspection; backfill compaction testing, and; static pile load testing. (\$16,000 (fee); 2024)

Northbound Manhattan Boulevard Widening, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes asphalt inspection; concrete testing; backfill compaction testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$11,000 (fee); 2023)

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)

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)

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)

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)

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
James Tiner, ACI Laboratory Manager/Field Supervisor	
Project Assignment:	
Laboratory Manager/Field Supervisor	
Name of Firm with which associated:	
 GULF SOUTH ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants	
Years' experience with this Firm:	
11 years (2013 to present); 27 years total (1997)	<i>Gulf South Engineering & Testing, Inc. 2013 - present</i> <i>Ardaman & Associates, Inc. 2007 - 2013</i> <i>Soil Testing Engineers, Inc. 1997 - 2007</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
American Concrete Institute (ACI) Grade 1 Certification	
Other experience and qualifications relevant to the proposed Project:	
<p>James Tiner, ACI, has a quarter-century of experience in both field and laboratory testing & inspection. His field work includes soil inspection and testing consisting of nuclear density testing and soil boring logging, steel inspection, augercast pile inspection, vibration monitoring, drilled shaft inspection, static and dynamic pile load tests, pile inspection, concrete testing and inspection, asphalt testing and inspection, and pavement coring.</p> <p>In the laboratory, Mr. Tiner 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>Westwego Pump Station #1, Jefferson Parish, LA. Gulf South performed field and laboratory testing during pump station #1 installation. Scope of services included field density tests, concrete testing and inspection, laboratory testing, and vibration monitoring. (\$10,000 (fee); 2016)</p> <p>Bissonet Drainage Outfall Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes backfill compaction testing; concrete testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$20,000 (fee); ongoing)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **James Tiner, ACI (continued)**

Metairie Lawn Drainage Improvements, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; earthwork inspection and testing, and; soil density tests. (\$5,000 (fee); ongoing)

East Bank Transit Operations Facility, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; soil density tests; earthwork inspection and testing; pile inspection and modeling; vibration monitoring; asphalt inspection; backfill compaction testing, and; static pile load testing. (\$16,000 (fee); 2024)

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)

Wastewater Treatment Plant (WWTP) No. 3 Expansion, City of Kenner, LA. Geotechnical investigation for expansion of the City of Kenner's WWTP. Expansion consists of new clarifiers, buildings, above and below grade piping, and pump stations. Services consist of drilling 11 soil borings to depths of 20 to 110 feet below ground surface, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, allowable pile load capacities, bedding and backfill recommendations, seismic classification, earth pressures, estimates of settlement, and general paving design recommendations. (\$39,000 (fee); 2012)

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

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)

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)

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:

Years' experience with this Firm:

2 years (joined Gulf South in 2022); *Gulf South Engineering and Testing, Inc. | 2022 to present*
3 years total (2021) *TetraTech, Inc. | 2021 to 2022*

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

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

TEC Professional Services Questionnaire

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

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

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

Geotechnical Exploration Report for Multiple Sewer Lift Station Sites, Assumption Parish, LA. The Geotechnical Exploration Report's scope included drilling five undisturbed soil borings (each to a depth of 50 ft b.g.s.) and the performance of soil mechanics laboratory tests to evaluate the soil's physical characteristics. Engineering analyses were made and based on the field and laboratory test data to develop recommendations for the project. Soil mechanics laboratory tests consisted of classification tests (moisture, unit weight, Atterberg's, etc.) and unconfined/triaxial compression strength testing. Engineering analyses included soil classification, allowable pile load capacities, probe piles & pile load tests, vibration monitoring, etc.), and general construction procedures and recommendations. (\$20,000 (fee); 2024)

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)

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

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:

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

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

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

Morton & Ingrid Pump Station Rehabilitation, Jefferson Parish, LA. Geotechnical investigation for below grade pump station replacement. Gulf South drilled 1 boring to 30 feet below the ground surface, provide laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding, and backfill recommendations, estimates of settlement, and general construction recommendations. (\$3,900 (fee); 2012)

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

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

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

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Tyler W. Pregeant, ACI
Engineering Technician; CMT/Laboratory Technician

Project Assignment:

Engineering Technician; CMT/Laboratory Technician

Name of Firm with which associated:

Years' experience with this Firm:

5 years (joined Gulf South in 2019); Gulf South Engineering and Testing, Inc. | 2019 to present
7 years total (2017)

Education: Degree(s)/Year/Specialization:

High School Diploma
Currently attending UNO in Civil Engineering Program

Active Registration: Year first registered/discipline:

ACI Concrete Field Testing Technician - Grade I (02206931)

Other experience and qualifications relevant to the proposed Project:

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

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

Bissonet Drainage Outfall Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes backfill compaction testing; concrete testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$20,000 (fee); ongoing)

TEC Professional Services Questionnaire

Other experience and qualifications: **Tyler W. Pregeant, ACI (continued)**

New Sewer Lift Station (Butler Drive & Grambling Street) E-10-1, Waggaman, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; backfill compaction testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$30,000 (fee); ongoing)

Geotechnical Exploration Report for Kennedy Heights Lift Station Generator, Avondale, Jefferson Parish, LA. Gulf South prepared a Geotechnical Exploration Report for the project. The study included drilling soil borings and lab testing to determine subsoil conditions and groundwater/moisture content. Deep foundation recommendations included allowable pile load capacities, pile driving recommendations, probe piles and pile load tests, vibration monitoring recommendations, drag load/group effect, estimated settlement for pile foundations, and recommendations for site preparation, fill placement, compaction, and materials. (\$6,500 (fee); 2024)

Geotechnical Exploration Report for Lift Station Generators (4 Sites - F6-1, F6-11, F6-13, G6-4), Metairie, Jefferson Parish, LA. Gulf South prepared a Geotechnical Exploration Report for the project. The study included drilling soil borings and lab testing to determine subsoil conditions and groundwater/moisture content. Deep foundation recommendations included allowable pile load capacities, pile driving recommendations, probe piles and pile load tests, vibration monitoring recommendations, drag load/group effect, estimated settlement for pile foundations, and recommendations for site preparation, fill placement, compaction, and materials. (\$24,000 (fee); 2024)

Geotechnical Exploration Report for Sewer Lift Station (Hillcrest Drive), Marrero, Jefferson Parish, LA. Gulf South prepared a Geotechnical Exploration Report for the project. The study included drilling soil borings and lab testing to determine subsoil conditions and groundwater/moisture content. Deep foundation recommendations included allowable pile load capacities, pile driving recommendations, probe piles and pile load tests, vibration monitoring recommendations, drag load/group effect, estimated settlement for pile foundations, and fill materials & fill placement and compaction. Recommendations for inspection and protection of the bearing surface and uplift pressures were also noted. (\$8,500 (fee); 2024)

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. (\$6,000; ongoing)

East Bank Transit Operations Facility, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; soil density tests; earthwork inspection and testing; pile inspection and modeling; vibration monitoring; asphalt inspection; backfill compaction testing, and; static pile load testing. (\$16,000 (fee); 2024)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Ian Kerner Poché, ACI Assistant Laboratory Supervisor	
Project Assignment:	
Assistant Laboratory Supervisor	
Name of Firm with which associated:	
 GULF SOUTH ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants	
Years' experience with this Firm:	
7 years (joined Gulf South in 2017); 7 years total (2017)	<i>Gulf South Engineering and Testing, Inc. 2017 to present</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
<i>ACI Concrete Field Testing Technician - Grade 1 (exp 2028 03)</i> <i>ACI Aggregate Testing Technician - Level 1 (exp 2029 02 27)</i>	
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>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)</p> <p>Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, LA. Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station located in Kenner, LA. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report. (\$48,000 (fee); 2024)</p>	

TEC Professional Services Questionnaire

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

Pump Station 45 Upgrades (Clark Street), East Baton Rouge Parish, LA. Geotechnical investigation regarding the construction of a new pump station and a new 5 MG tank (with the option to build a second tank) at the existing PS 45 site along Clark Street in Baton Rouge, LA. Scope of services included drilling 11 undisturbed soil borings to depths of 80 to 120 ft. below the ground surface. Geotechnical laboratory testing were performed to ASTM standards and include strength test (unconfined and/or triaxial), classification tests (Atterberg Limits and/or particle size), consolidation tests, and others as appropriate. Geotechnical engineering analyses included allowable soil bearing values, shaft/pile load capacities, estimates of settlements, sludge loading analyses, and general construction procedures and recommendations. (\$68,000 (fee); 2023)

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

Bissonet Drainage Outfall Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes backfill compaction testing; concrete testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$20,000 (fee); ongoing)

Metairie Lawn Drainage Improvements, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; earthwork inspection and testing, and; soil density tests. (\$5,000 (fee); ongoing)

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)

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)

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:	
Walter Jones Technician/Inspector	
Project Assignment:	
Technician/Inspector	
Name of Firm with which associated:	
 ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants	
Years' experience with this Firm:	
7 years (joined Gulf South in 2017); 19 years total (2005)	<i>Gulf South Engineering and Testing, Inc. 2017 to present</i> <i>Little Debbie Ind. Distributors 2013 to 2017</i> <i>Applied Business Concepts 2006 to 2013</i> <i>Royal Guard Corporation 2005 to 2006 & 2013</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
American Portable Nuclear Gauge Assn. (APNGA) Certification OSHA Training	
Other experience and qualifications relevant to the proposed Project:	
<p>Walter Jones serves as a Technician/Inspector for Gulf South Engineering and Testing, Inc. He has provided services for a multitude of projects throughout the region since joining the firm in 2017.</p> <p>New Sewer Lift Station (Butler Drive & Grambling Street) E-10-1, Waggaman, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; backfill compaction testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$30,000 (fee); ongoing)</p> <p>Bissonet Drainage Outfall Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes backfill compaction testing; concrete testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$20,000 (fee); ongoing)</p> <p>Metairie Lawn Drainage Improvements, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; earthwork inspection and testing, and; soil density tests. (\$5,000 (fee); ongoing)</p>	

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:	
<p>Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, Louisiana</p> <p>MSMM Engineering, LLC 7640 S. Carrollton Ave Ste 220 New Orleans LA 70119</p> <p>Scott G. Chehardy, P.E., 985-233-9763 schehardy@msmmeng.com</p>	<p>Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2024	N/A	\$48,000 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lake Cataouatche Drainage Pump Station Replacement, Avondale, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Department of Engineering 1221 Elmwood Park Blvd Ste 907 Jefferson LA 70123</p> <p>Mitch Theriot, P.E., 504-736-6742 mtheriot@jeffparish.net</p>	<p>Geotechnical engineering services for the construction of a replacement for the Lake Cataouatche drainage pump station in Avondale, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 100 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2019	N/A	\$12,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, Louisiana</p> <p>Principal Engineering, Inc. 1011 N Causeway Blvd Ste 19 Mandeville LA 70471</p> <p>Andre Monnot, P.E., 985-624-5001 andre@principal-engineering.com</p>	<p>Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station at the end of Chighizola Lane in Grand Isle. Gulf South's scope includes drilling one undisturbed soil borings to a depth of 80 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2020	N/A	\$7,500 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane), Harahan, Jefferson Parish, Louisiana</p> <p>Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans LA 70119</p> <p>Henry M. Picard, III, P.E., 504-486-5901 hpicard@bkiusa.com</p>	<p>Geotechnical engineering services for the construction of a new elevated generator platform at the Midway Soniat Canal pump station off Silver Oak Lane in Harahan, LA. Gulf South's scope of services includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2022	N/A	\$7,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, Louisiana</p> <p>ECM Consultants, Inc. 1301 Clearview Pkwy Ste 200 Metairie LA 70001</p> <p>Susina Shrestha, P.E., 504-885-4080 sshrestha@ecmconsultants.com</p>	<p>Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2022	N/A	\$35,000 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, Louisiana</p> <p>Hatch Mott MacDonald 650 Poydras Street, Suite 2025 New Orleans LA 70130</p> <p>Many Heymann, P.E., 504-799-0437 many.heyman@hatchmott.com</p>	<p>Geotechnical investigation for new drainage improvements along Trudeau Drive at W. Metairie Blvd. in Metairie, LA. The improvements will consist of replacing existing box culverts within W. Metairie Canal with double barrel 7 ft. x 11 ft. culverts, approximately 300 linear feet. Gulf South's scope includes drilling two soil borings each to a depth of 50 feet, lab testing, and geotechnical engineering analysis consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, slope stability analysis, rigid and/or flexible pavement design recommendations, and general construction recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2015	N/A	\$8,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Morton & Ingrid Pump Station Rehabilitation, Jefferson Parish, Louisiana</p> <p>Principal Engineering, Inc. 1011 N Causeway Blvd Ste 19 Mandeville LA 70471</p> <p>Andre Monnot, P.E., 985-624-5001 andre@principal-engineering.com</p>	<p>Geotechnical investigation for below grade pump station replacement. Gulf South drilled 1 boring to 30 feet below the ground surface, provide laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding, and backfill recommendations, estimates of settlement, and general construction recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2012	N/A	\$3,900 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, Louisiana</p> <p>Principal Engineering, Inc. 1011 N Causeway Blvd Ste 19 Mandeville LA 70471</p> <p>Andre Monnot, P.E., 985-624-5001 andre@principal-engineering.com</p>	<p>Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope of work consisted of performing one soil boring to 50 feet, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
August 2013	N/A	\$5,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>St. Peter's Ditch - Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Public Works Department 1221 Elmwood Park Blvd Ste 904 Jefferson LA 70123</p> <p>Reda Youssef, P.E., 504-736-6783 JPPW@jeffparish.net</p>	<p>Project consisted of the construction of a new pump station and below grade culverts and piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Scope included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2016	N/A	\$110,000 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, Louisiana</p> <p>Digital Engineering 527 W Esplanade Ave Ste 200 Kenner LA 70065</p> <p>Frank T. Liang, P.E., 504-468-6129 fliang@deii.net</p>	<p>Gulf South provided construction materials testing for the project, located at the corner of N. Sibley Street and West Napoleon Avenue. Gulf South's scope of work includes soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2021	N/A	\$20,000 (fee)

TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1.	<div style="border: 1px solid black; padding: 5px;"> <p><i>Gulf South Engineering and Testing, Inc. is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i></p> </div>	
2.		
3.		
4.		

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



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.

Please refer to our projects noted in our personnel listings in Item K as well as the representative projects shown in Item L for specific project examples and an overview of our surveying experience with Jefferson Parish.

TEC Professional Services Questionnaire

N. continued.

Geotechnical Engineering Services

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

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

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

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.**

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.

TEC Professional Services Questionnaire

N. continued.

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
- 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.

CRITERIA 2 | SIZE OF FIRM

At 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

Gulf South has the manpower and equipment to expeditiously complete any task order assigned under this contract. The tasks which would be assigned under this contract are the types of projects we perform and complete each day. Gulf South is thoroughly familiar with the specialized and unique CMT needs required for the projects that may be issued under this contract.

The contract and contractual issues will be overseen by Chad M. Poché, P.E. The technical aspects of tasks assigned to the contract will be managed by Eric A. Paille, C.E.T., ACI, with support and oversight as needed from Brandon A. Paille, ACI; James Tiner, ACI; Joseph H. "Trey" Binder, III, ACI; and Gulf South's various department managers, technicians, and administrative support staff.

TEC Professional Services Questionnaire

N. continued.

As a task or project is awarded to the Gulf South Team, a file number is assigned to the project and all pertinent information is gathered (name, location, contacts, etc.). Brandon A. Paille, ACI will manage the project and assign appropriate personnel to accomplish the task. All field tests and reports are reviewed by Mr. Poché/Mr. Beard and Mr. Paille prior to being sent to the client.

Elements of our task work can include:

- meet with client to discuss project parameters and required tests/inspection
- collect any samples for testing for Proctor tests or pre approval to be used
- visit site as needed and requested to perform tests/inspections
- provide daily reports of findings and results

All field tests and reports are reviewed by Mr. Poché/Mr. Beard and Mr. Paille prior to being sent to the client.

All laboratory tests are reviewed by Gulf South's laboratory manager. Daily Field Reports are prepared and distributed by Gulf South's administrative personnel.

The Gulf South Team will provide all services in a safe and timely manner. We will coordinate with the Port's Project Manager(s) on a regular basis to keep them informed and to coordinate our schedule, work, and deliverables. We guarantee that every project or task assigned to this contract will be given high priority, be done efficiently, and completed accurately, on time, and within budget.

CRITERIA 4 | PAST PERFORMANCE

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.

Please refer to our projects noted in our personnel listings in Item K as well as the representative projects shown in Item L for specific project examples and an overview of our specialized experience and service.

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: August 22, 2024

Section 4

IMC Consulting Engineers, Inc.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

B. Firm Name & Address:

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:

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.

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

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

**All of our Engineers are Specification Writers.*

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.

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.

2.

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

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1.		
2.		
3.		

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

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:

Project Assignment:

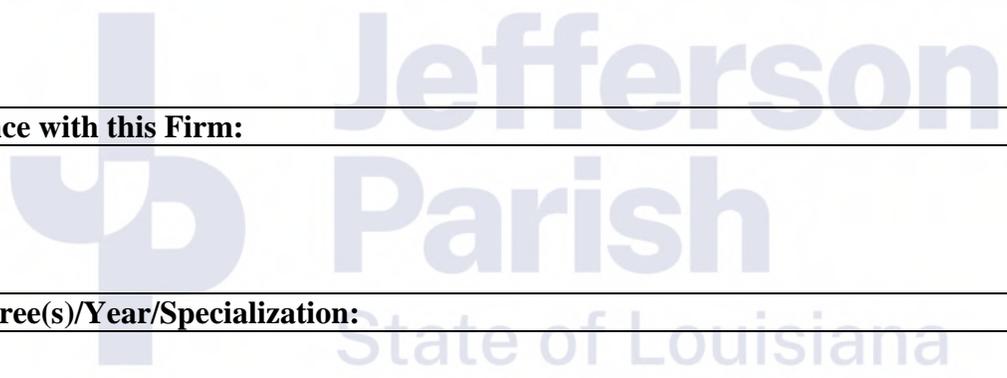
Name of Firm with which associated:

Years' experience with this Firm:

Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:



Other Experience and Qualifications Relevant to the Proposed Project (*continued*)

City of Kenner – Woodlake Estates Drainage Pumping Station

Currently designing the electrical and controls / instrumentation associated with a new booster pumping station consisting of four (4) 250 HP, electric-motor driven, submersible pumps. Design will include standby generator backup and full automated controls with SCADA interface.

Estelle 1 Pump Station Modifications

Designed and specified electrical and SCADA systems for the replacement of three 200 HP drainage pump motors. Design included power, lighting, controls, instrumentation, and SCADA communications design.

Elmwood Pumping Station Engine Replacement

Designed the electrical systems associated with the replacement of 8 diesel drive units, replacement of 8 remote radiators, and refurbishing 8 right angle gear boxes. Design included modifications to existing MCC equipment to accommodate larger radiators and additional pre-lube pumps for right-angle gears. Existing feeders were utilized to feed new distribution load centers for each engine, which in turn supply power to ancillary loads such as battery chargers and engine heaters. Modifications to existing Murphy Controls were implemented so that existing engine and PLC controls could interface factory-installed, skid-mounted engine controls, sensors, and safeties. Existing shaft speed sensors were maintained for existing SCADA systems to be able to continue to monitor engine speed remotely.

Veterans Boulevard Pumps

Designed and specified electrical power, control, and SCADA systems for drainage booster pumping stations (3 total stations – 2 at Veterans and 1 at West Esplanade) to be located near the 17th St. Canal at Veterans Blvd. and West Esplanade Ave. Each station consists of (2) electric motor-driven pumps ranging from 125 HP to 250 HP each. Design included primary and full standby power systems for each station, PLC pump controls, instrumentation, and SCADA system.

Jefferson Parish Dept of Drainage-Hero Pump Station-Standby Power Automation

Designed modifications to existing medium voltage switchgear and medium voltage generator controls to allow for automatic transfer and paralleling of generators to the station when utility power is unavailable. Design included replacement of existing generator controls with PLC-based controls, the addition of synchronization logic and controls to the existing switchgear, and replacement of existing electromechanical protection relays with digital, programmable GE Multilin relays. IMC is the Prime Consultant for this project, and Paul will be serving as the Project Manager during construction.

Parish Line Pumping Station

Designed and specified power, lighting, instrumentation, control, and SCADA systems for an addition to the existing station. The addition consisted of a diesel-driven vertical pump and associated support systems, such as compressed air for engine starting, gear lubrication and cooling, and diesel fuel storage and transfer. The design included provisions for three additional diesel-driven vertical pumps in the future. Location of the station required designs associated with the relocation of the medium voltage electrical service to the station. Project design features of special note included medium voltage pad-mounted switchgear, PLC equipment for complete monitoring and control of the station locally or remotely from Duncan Pumping Station, an expansion of the video surveillance system, motorized trash screen cleaner controls, fuel controls, engine controls, and gear vibration monitoring.

Ascension Parish – Marvin Braud Pump Station - Enhanced Flood Protection

Designed and specified electrical modifications to the station to incorporate the addition of sluice gates at pump discharge tubes for prevention of water backflow into the suction basin from the discharge basin. Project also included electrical relocations North of the station to accommodate a new flood wall.

Fronting Protection - Bonnabel and Suburban Pump Stations

Designed and specified power, lighting, and PLC-based controls associated with the addition of electrically-actuated sluice gates at the end of the discharge tubes for the horizontal pumps at PLC system for remote control of closure gates from the Pump Station or the Bonnabel and Suburban Pumping Stations. Design included interface with existing Allen-Bradley Safe House.

USACE Orleans Stormproofing (Several Projects)

IMC provided mechanical & electrical improvements at the S&WBNO's main power generation plant, (2) raw water pumping stations necessary for plant power production, and 17 drainage pumping stations located throughout New Orleans. All improvements were associated with stormproofing measures. Stormproofing design consisted of elevating existing equipment where feasible, sealing conduits to equipment that could not be easily elevated, adding sump pumps, adding both "house" generators and major station generators to operate drainage pumps (3000 & 4000 kw generators), and retrofitting / adding ventilation louvers capable of handling 150 mph wind loading.

At several stations, design included standby power generation to operate large (1500HP – 2500HP) electric motors for drainage pumps, and at Pump Station 5, a completely new 600 CFS pumping station was designed. Design for this station also included medium voltage pump controls, power factor correction capacitors, and digital relaying for protection of medium voltage switchgear, pump motors, and generator.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Project Assignment:

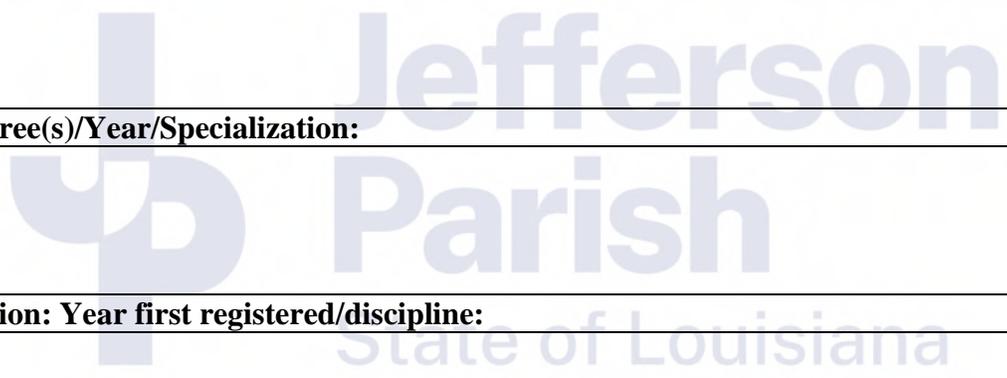
Name of Firm with which associated:

Years' experience with this Firm:

Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:



Other Experience and Qualifications Relevant to the Proposed Project (continued)

Cousins Booster Pumping Station – Jefferson Parish

Electrical design of sewerage forced main triplex station (3-125 h.p.) and support systems including secondary selective service switching scheme. Required dual utility service with transfer facilities, motor controls, lighting, and miscellaneous power.

Freshwater Bayou Lock Electrical Renovation, Vermillion Parish

Designed total renovation of this COE Lock in south Louisiana. Included electrical service, distribution system, lighting, controls, navigation lighting, generation, etc.

Catfish Point Sector Gate Renovation, Cameron Parish

Designed total renovation of this COE freshwater/storm water control structure. Included electrical service, distribution system, lighting, controls, navigation lighting, generation, etc.

Drainage Pumping Station No. 6, Orleans Parish

Design of electrical modifications at Drainage Pumping Station No. 6, which included 14 sluice gates (motors & controls), lighting, and miscellaneous power.

Drainage Pumping Station No. 6 - Add Two 3750 KW Generators, Orleans Parish

Electrical design of the installation of two new 3750 KW generators for this major S&WB Drainage Pumping Station. The design included tying the new generators into the existing electrical system at Pumping Station #6. It also included providing a new control and monitor in the existing control station to monitor the status of the new generators. These generators provide emergency power to large vertical pumps that pump water from the 17th Street canal.

LADOTD Renovation of the Mechanical & Electrical System Associated with the Houma Tunnel, Terrebonne Parish

Under this work statement IMC prepared construction documents to replace all pumping (10 drainage pumps/motors) and electrical gear including all controls, wiring, etc. within the facility. Responsible for all electrical design for total renovation of these pumping facilities (three stations) associated with the existing Tunnel. System including service entrance switchgear, motors, controls, lighting and power distribution.

LADOTD - Renovation of Highway 190 Pumping Station, West Baton Rouge Parish

Electrical design for total renovation of this pumping facility including motors, controls, electrical service, lighting and power distribution.

Mini-System Improvements Sewerage System, Jefferson Parish

Electrical design of numerous sewerage lift and booster stations for Jefferson Parish. Approximately 30 - 40 stations, duplex and triplex, submersible, wet/dry well and above ground facilities.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Project Assignment:

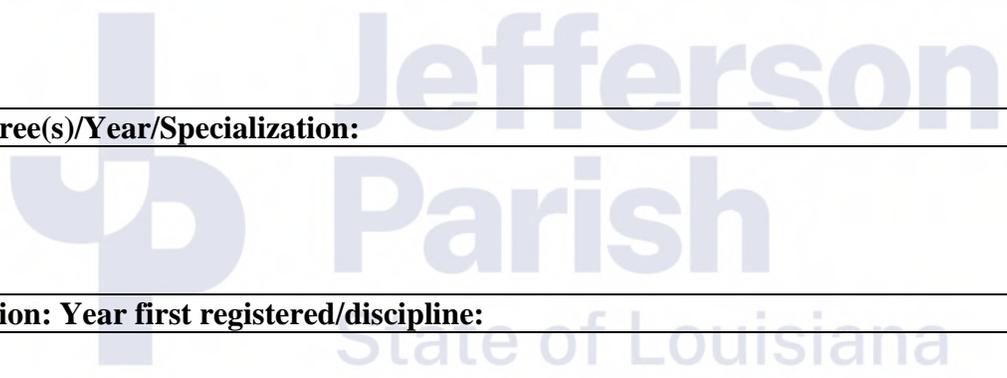
Name of Firm with which associated:

Years' experience with this Firm:

Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:



Other Experience and Qualifications Relevant to the Proposed Project (*continued*)

Elmwood Drainage Pump Station

Supervised and acted as the Professional of Record for the mechanical system design. This multi-year project consisted of replacing eight (8) existing diesel engines, remote radiators and mufflers that drive the eight (8) vertical turbine drainage pumps at the Elmwood Pump Station. As part of the mechanical design, the existing diesel driven engines, their remotely mounted radiators and mufflers are being replaced. The design included replacement, or modifications, to the fuel, compressed air and cooling water piping systems associated with the new engines, refurbishment of the existing right angle gear reducers and new drive shafts to connect the engines to the gear reducers. The project was designed in phases to replace two units at a time so as not to drastically reduce the pumping capacity of the station.

USACE Levee Inspections

Chip provided Inspections of (56) storm water pumping stations in the metro New Orleans area. IMC was responsible for inspecting the mechanical systems including all pumps, engines, motors, fuel systems, ventilation, compressed air systems, vacuum pumps, backflow prevention and any other mechanical systems within the pump stations. IMC was charged with observing all mechanical systems in operation and generating a report on their condition and required repairs or improvements. The project deliverables included a report on the system conditions and recommendations on addressing any noted deficiencies. The project spanned approximately one year and provided valuable insight into the advantages and disadvantages of the various pump station types.

Orleans Parish Storm Proofing

Supervised and acted as the Professional of Record for the mechanical system design. After Hurricane Katrina, the United States Army Corps of Engineers (USACE) undertook a project to make as many of the New Orleans Drainage Pump Station as flood resistant as possible. As part of the mechanical design, IMC designed and specified the fuel storage and distribution systems, compressed air system cooling water systems associated with the large diesel driven standby generators that were installed at many of the pump stations. The design included installation of 30,000-gallon aboveground fuel tanks, 3,000-gallon day tanks and associated piping, pumps and controls for the diesel fuel oil supply to the generators, and diesel driven and electric driven compressed air systems associated with the diesel engine "air-start" systems. This included compressors, controls, air receivers and associated piping.

17th Street Canal, London Avenue Canal and Orleans Avenue Canal Closure Structures, Orleans Parish

Supervised and acted as the Professional of Record for the mechanical system design. The design consisted of mechanical systems to support the diesel driven pumps, including 40,000 gallons of above ground diesel fuel storage and transfer systems, and the design of domestic water and sanitary systems associated with the personnel offices to serve the remainder of the building loads.

Parish Line Pumping Station, Jefferson Parish

Supervised and acted as the Professional of Record for the design of the mechanical systems associated with an addition to the existing drainage station. The project consisted of a new structure adjacent to the existing station for the purpose of housing a single, diesel-engine driven vertical pump. Design included provisions for expanding the new structure to include three future pumps, for a total of four pumps in the station addition. Mechanical design included additions and modifications to the existing

Chip Higbee, P.E.
Principal

fuel storage and transfer system, a new fuel polishing system, a compressed air system for diesel engine starting and discharge tube valve actuation, domestic water service modifications, an emergency raw-water system, gear oil cooler piping, and bearing water piping. Design also included piping to and from keel coolers submersed in the suction basin for engine cooling and exhaust piping from the diesel engine to the silencer mounted on the exterior of the station.

Fronting Protection for Ollie Pumping Station, Plaquemines Parish

Supervised and acted as the Professional of Record for all mechanical system designs. The design included specified modifications to the existing compressed air piping and design of new compressed air piping system. It also included modifications to the cooling water piping that served keel coolers for existing engines.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Matthew Wender, P.E. Principal and Mechanical Department Head
Project Assignment:
Mechanical Engineer
Name of Firm with which associated:
IMC Consulting Engineers, Inc. 2714 Independence Street Metairie, LA 70006
Years' experience with this Firm:
17
Education: Degree(s)/Year/Specialization:
Bachelor of Science 2004 (Mississippi State University) Mechanical Engineering
Active registration: Year first registered/discipline:
2009, Louisiana #34365 / Mechanical Engineering
Other experience and qualifications relevant to the proposed Project:
<p>Matt Wender is responsible for the design of commercial HVAC, pumping, plumbing, and fire protection systems, including load calculations, specifications, system layout, and completion of construction documents. His HVAC design experience includes a wide range of mechanical systems spanning from direct expansion (D/X) systems to four-pipe, variable-air volume, water-cooled systems with energy recovery. Direct Digital Control (DDC) system design and installation supervision are special areas of concentration. The plumbing systems he has designed include high-efficiency condensing-type water heaters with hot water recirculation and water conserving type fixtures. Matt's fire protection designs include wet-pipe systems, both with and without fire pumps, and dry-pipe pre-action and anti-freeze systems.</p> <p>Please see attached resume for additional experience and qualifications.</p>

Matthew Wender, P.E.
Principal / Mechanical Department Head

Other Experience and Qualifications Relevant to the Proposed Project (*continued*)

Sylvia Estates Pump Station, St. Bernard Parish

Provided drainage pump station HVAC and plumbing design to accommodate the facility's diesel engine-driven drainage pumps, 200kW generator, and operator workroom. On-site aboveground diesel fuel storage consists of two 10,000-gallon double wall cylindrical storage tanks meeting UL142 and STI Fireguard specifications. Interior pump & generator day tanks are supplied fuel via redundant submersible turbine transfer pumps with all fuel controls/alarms monitored within the operator workroom. HVAC designs account for conditioning the operator workroom as well as the pump & generator ventilation louvers and insulated engine mufflers.

Charenton Flood Gate Replacement, St. Mary Parish

Provided mechanical design for control house ventilation for new USACE sector gate in Charenton, Louisiana.

WBV-16.2 Bayou Segnette to Westwego #2 - Sector Gate - New Orleans District

Designed Hurricane-resistant HVAC fans and louvers for sector gate control houses.

USACE - WBV-74 - New Sector Gate at Sellers Canal - New Orleans District

Designed Hurricane-resistant HVAC fans and louvers for sector gate control houses.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Project Assignment:

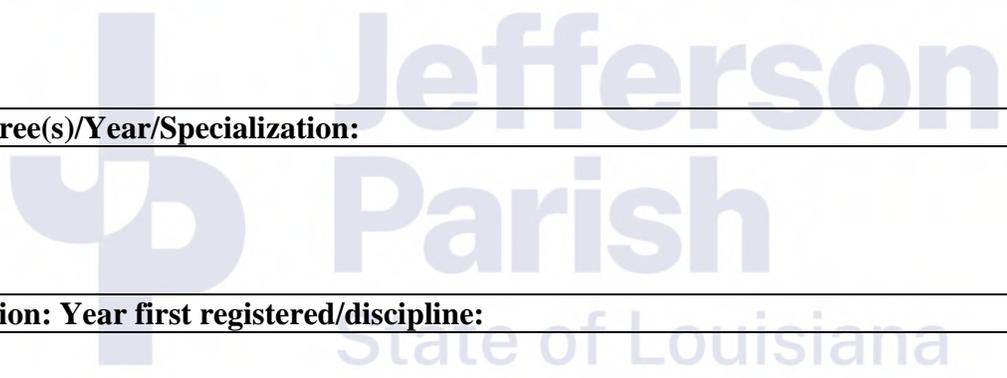
Name of Firm with which associated:

Years' experience with this Firm:

Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:



Other Experience and Qualifications Relevant to the Proposed Project (*continued*) Jefferson Parish

“Parish-Line” Pump Station

This project was an expansion to the existing pump station located at the Parish Line Canal. A single drainage pump was being added in a new building. The project was designed to allow for expansion to a total of four new pumps. The design included a new 12,000 gallon diesel fuel yard to augment the existing fuel storage on site, new domestic water service modifications, new domestic water booster pumps, new raw water pumps to serve the existing, new and future drainage pumps bearing systems (This system will act as back up to the domestic water system.), new compressed air system to start the diesel driven drainage pump, new fuel distribution to serve the new and future diesel engines, and new diesel engine exhaust system.

Jefferson Parish Elmwood Drainage Pump Station

This project consisted of replacing eight existing diesel engines, remote radiators and mufflers that drive the eight vertical turbine drainage pumps at the Elmwood Pump Station. As part of the mechanical design; the existing diesel driven engines and their remotely mounted radiators and mufflers are being replaced. The design included replacement or modifications to the fuel-compressed air and cooling water piping systems associated with the new engines, refurbishment of the existing right angle gear reducers and new drive shafts to connect the engines to the gear reducers. The project has been designed in phases to replace two units at a time so as not to drastically reduce the pumping capacity of the station.

New Orleans Sewerage & Water Board Drainage Pump Station No. 5

After Hurricane Katrina, the United State Army Corps of Engineers (USACE) undertook a project to build a new drainage pump station to augment the existing pump station that was on the site. As part of the mechanical design, we designed and specified the fuel storage and distribution system, compressed air system, cooling water system that served the large diesel driven standby generators that were part of the new pump station. The design included installation of a 15,000-gallon aboveground fuel tank, a 3,000 gallon day tank and associated piping, pumps and controls for the diesel fuel oil supply to the generator. The design also included diesel driven and electric driven compressed air systems associated with the diesel engine “air-start” systems. This included compressors, controls, air receivers and associated piping. Remote air-cooled radiators were provided to cool the generator’s diesel engine along with aftercooler and jacket water piping. New potable water system was designed using a variable frequency driven booster pump to maintain required water pressure at the station. Exhaust piping was designed to serve the generator’s diesel engine. Upgrades were designed for the existing drainage pump station providing sump pumps to help “stormproof” the building and a new domestic water booster pump to serve the existing station’s water needs.

Bayou Segnette Pumping Station

This was an addition to the existing drainage pumping station. The plumbing design included all mechanical systems for the support of the diesel engine driven drainage pumps. Systems included a compressed air system for starting the main diesel engines that operate the drainage pumps, engine and gear cooling water systems, domestic water and sanitary systems, instrument air systems, vacuum pump priming system, pump bearing lubrication water system, a 30,000 gallon above ground diesel fuel storage and transfer system, waste oil system, and sump pumps to serve the station’s basement. The design also included the air distribution system required for the suction basin and discharge basin water level manometers and discharge tube vacuum breaker system.

Westminster Pumping Station Generator Building

The design included compressed air, fuel storage and distribution systems to support the 2.5 mega watt

generator. The design consisted of compressed air for engine starting, a 40,000-gallon fuel oil storage system with transfer pumps and distribution piping, engine exhaust piping, engine cooling system, instrument air, domestic water and well water (750 ft. well), and sewerage piping.

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 4

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 7

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1.	IMC has no prior or on-going litigation with Jefferson Parish.	
2.		
3.		
4.		

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

IMC Consulting Engineers, Inc. has enjoyed the opportunity to provide professional services for projects within Jefferson Parish since being established in 1988. IMC has provided extensive electrical and mechanical work for Jefferson Parish working both as a prime and sub-consultant, including mechanical and electrical designs for Drainage Pumping Stations within the Parish.

We hope the responses in the SOQ demonstrate IMC's recent and extensive experience providing mechanical and electrical engineering services for Drainage Pumping Stations. Many of the highlighted projects have been with, or directly for, Jefferson Parish. Some examples of recent Drainage projects within Jefferson Parish include electrical improvements at Hero Pump Station, the addition to Parish Line Pumping Station, engine replacements at Elmwood Pumping Station, and new booster pumping stations along Veterans Blvd. near the 17th St. Canal (not yet constructed). Outside of Jefferson Parish, IMC has designed mechanical and/or electrical systems for drainage projects at Marvin Braud Pumping Station in Ascension Parish, Ollie Pumping Station in Plaquemines Parish, and DPS-5 in Orleans Parish, to name a few.

We look forward to continuing to serve Jefferson Parish in this capacity.

Please see next page for additional information.

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

Signature:  Print Name: Paul S. Vlosich

Title: Principal and Director Of Municipal Projects Date: 8/21/2024

N. (continued) Use this space to provide any additional information or description of resources supporting firm's qualifications for the proposed project:

1. PROFESSIONAL TRAINING AND EXPERIENCE – DRAINAGE

IMC has performed mechanical and electrical designs and construction administration at Jefferson Parish Drainage Pump Stations for over 30 years.

While we hope that our responses demonstrate IMC's experience in the design of electrical and mechanical systems for drainage pump stations, as well as our experience providing professional services to Jefferson Parish, we also want to highlight our experience communicating with the Parish's preferred vendors, including PLC-based Pump Control and SCADA System provider, Prime Controls, whose PLC equipment we are familiar with, and Fluid Process and Pumps, whose equipment and controls we are also familiar with. IMC has a great working relationship with both vendors.

Our 35+ years of experience in designing drainage structures and pumping stations has afforded us the unique opportunity to speak with multiple station operators and gain knowledge on multiple drainage pumping approaches. Through our exposure to different station types and conversations with station operators we have learned a great deal of information that contributes to our ability to design mechanical and electrical systems that are easier to maintain and that are fault-tolerant.

IMC Consulting Engineer's experience Electrical staff includes Principals, Richard Nichols, P.E. (30+ years of experience) and Paul Vlosich, P.E. (25+ years of experience). IMC also employs two Electrical Designers:

- Daniel Walker (30+ years of experience)
- Garrett Fried (12+ years of experience)

IMC's experienced Mechanical staff includes Principals Eugene "Chip" Higbee, P.E. (30+ years of experience) and Matthew Wender, P.E. (15 years of experience). IMC also employs two additional registered Professional Mechanical Engineers, and two Mechanical Designers:

- Joseph Garon, P.E. (9+ years of experience)
- Matthew Garon, P.E. (9+ years of experience)
- Russell Troncoso (7+ years of experience)
- Quynh Nguyen (2+ years of experience)

Louis Pastor, CIPE/CPD (40+ years of experience) continues to provide IMC with design assistance on selected projects on a part-time basis. Louis specializes in plumbing engineering and is certified in that area. Louis has specialized experience in the design of compressed air systems and fuel storage and distribution systems.

All of IMC Engineers and Designers provide field observation and inspection of projects under construction on a regular basis.

All of our Engineers and Designers are required to obtain a minimum of 15 hours of professional development training each year, eight of which must be associated with life safety training (NFPA 101, IBC, NFPA 72, NFPA 13, etc.), and at least one hour in professional ethics.

N. (continued) Use this space to provide any additional information or description of resources supporting firm's qualifications for the proposed project:

2. SIZE OF FIRM

IMC is an 18-person firm specializing in Mechanical and Electrical design services. Our firm has relatively low overhead and prides itself on productivity. Our engineers and designers are involved in all aspects of the project from design to final observation, decreasing the total impact that a single project has to company resources, and allowing our engineers to take ownership of the projects they have designed.

IMC is presently utilizing AutoCAD & Revit drafting software and custom- designed templates specifically tailored to electrical and mechanical system drafting. The original template was designed in 1988 and continues to be upgraded by IMC. IMC utilizes MS Word processing software for specifications and general correspondence and utilizes Microsoft Excel electronic spreadsheet for efficient calculations and tabulation of data.

3. CAPACITY FOR TIMELY COMPLETION OF NEWLY ASSIGNED WORK

Based upon our experience with past, similar contracts with Jefferson Parish, we project that this contract would constitute less than 5% of our revenue in a given fiscal year. As such, we believe that IMC's staff can support the design effort required for the awarded work. IMC has performed in a timely fashion on work such as this in the past, and we believe that our familiarity with the people, vendors, and type of work advertised in this SOQ will contribute to our efficiency in completing the work in a prompt manner. We hope that our past experience with Jefferson Parish has demonstrated that IMC has the capacity for timely completion of projects; we know of no instance where IMC was not able to deliver a project on time to Jefferson Parish.

4. PAST PERFORMANCE BY FIRM ON PROJECTS OF SIMILAR SIZE, SCOPE, AND SCALE

IMC has worked on numerous projects for Jefferson Parish in the past. In addition to those already mentioned, some examples of these projects include mechanical, electrical, plumbing design and construction administration services for the Kenner WWTP Generator Banking Project, Yenni Building Standby Generator Project, the Veterans Boulevard Decorative Lighting project, and the Causeway and West Esplanade Sewer Lift Station project, just to name a few. Our mechanical, electrical, and plumbing design experience for Jefferson Parish includes not only Drainage Pumping Stations, but also Sewer Lift Stations, Office Buildings, Courthouses, equipment replacements (mechanical and electrical), and other facilities/projects.

IMC has provided engineering services for many Jefferson Parish projects. All projects have been successfully completed, and we encourage review of our performance with other Jefferson Parish personnel, including Mr. Ben Lepine (Drainage Dept.), Mr. Ryan Babcock (Director of General Services), and Mr. Mark Drewes (Director of Public Works).

We have enjoyed our relationship with Jefferson Parish more than 35 years and sincerely believe that we have earned a good reputation with the Parish for delivering quality designs. We hope to continue to have the opportunity to work with Jefferson Parish in the upcoming years.

5. LOCATION OF PRINCIPAL OFFICE

IMC's only office is located in Jefferson Parish at 2714 Independence Street in Metairie and many of our employees reside in Jefferson Parish. IMC has been located in Metairie since 1993. All mechanical and electrical design work will be handled from this office by staff presently with IMC. **Of special note, the project site referenced in this RFQ is located less than two miles from IMC's office.**

N. (continued) Use this space to provide any additional information or description of resources supporting firm's qualifications for the proposed project:

6. ADVERSARIAL LEGAL PROCEEDINGS WITH JEFFERSON PARISH

IMC is not involved nor ever has been involved in litigation with Jefferson Parish.

7. PRIOR SUCCESSFUL COMPLETION OF PROJECTS OF THE TYPE AND NATURE OF SERVICES

IMC has successfully completed numerous projects of this type and nature for Jefferson Parish in the 35+ years that we have been in business. Specific to Jefferson Parish, IMC has completed projects as a Prime and as a Sub-Consultant at several Jefferson Parish, Drainage Stations, Sewer Lift Stations, and other Facilities, including the Yenni Building, First Parish Court, the East Bank Maintenance Building, the East Bank Library, the River Ridge Library, and the West Bank Government Complex. Specific to the projects of the type anticipated for this contract, IMC has recently and successfully designed, and/or administered the construction for, the mechanical and/or electrical systems for following recent Drainage Projects:

- New Booster Drainage Pump Station for Woodlake Estates subdivision (in design)
- Addition to Parish Line Pump Station (construction complete)
- Electrical Improvement at Hero Pump Station (construction complete)
- New Booster Drainage Pump Stations along Veterans, near 17th St. Canal (in construction)
- Engine Replacements at Elmwood Pumping Station (construction complete)
- Electrical Improvements and Bonnabel and Duncan Pump Stations (design complete)

IMC is a small business as identified by U.S. Federal Standards.

ECM Consultants, Inc.

1301 Clearview Parkway, Suite 200, Metairie, Louisiana 70001