

**QUESTIONS AND COMMENTS MUST BE SUBMITTED NO LATER THAN 11:00 A.M.
(CT) September 24, 2021.**

REQUIRED SIGNATURE PAGE FOR SUBMITTALS

This page, signed by an authorized officer of your Company, must accompany your submittal as the cover page.

I, the undersigned, having carefully examined the Request for Qualifications, propose to furnish services in accordance therewith as set forth in the attached submittal.

I hereby certify that this submittal is genuine and not a sham or collusive submittal, or made in the interests or on behalf of any person not therein named; and I have not directly or indirectly induced or solicited any Submitter or supplier on the above work to put in a sham submittal or any person or corporation to refrain from submitting a submittal; and that I have not in any manner sought by collusion to secure to myself an advantage over any other Submitter(s) or person(s).

In order to induce the Sheriff to consider this submittal, the Submitter irrevocably waives any existing rights which it may have, by contract or otherwise, to require another person or corporation to refrain from submitting a submittal to or performing work or providing supplies to St. John the Baptist Parish Sheriff Office, and Submitter further promises that it will not in the future directly or indirectly induce or solicit any person or corporation to refrain from submitting a bid or submittal to or from performing work or providing supplies to St. John the Baptist Parish Sheriff Office.

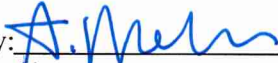
Please type or print legibly the information below.

Submitter hereby acknowledges receipt of the RFQ and agrees to Terms and Conditions set forth in this RFQ.

SUBMITTER INFORMATION

Firm Name: Pivotal Engineering, LLC
Address: 1515 Poydras St., Suite 1875 City/State/Zip: New Orleans, LA 70112
Phone No.: 504 799 3653 Fax No.: 504 799 3654

AUTHORIZATION TO SUBMIT (must be signed):

By:  9/27/2021 Avinash Mehta, PE
Signature Offer Date Printed

Primary Contact Person (If other than above):

Name: _____ Phone No: _____ Fax No: _____
Title: _____ Email Address: _____

If this submittal is being submitted on behalf of an agent/broker, please complete section below:

Submitted on behalf of: _____

Phone No: _____ Fax No: _____

E-mail Address: _____

Pivotal Engineering, LLC

St. John the Baptist Parish Sheriff's Office



EMERGENCY REQUEST FOR QUALIFICATIONS (RFQ) HURRICANE IDA DISASTER RECOVERY DAMAGE ASSESSMENT AND A/E SERVICES RFQ NO 2021.1

September 27, 2021
9:45 am

Pivotal Engineering, LLC
1515 Poydras St., Suite 1875
New Orleans, LA 70112
Office 504-799-3653
Fax 504-799-3654
Contact: Avinash Mehta
amehta@pivotaleng.com

pivotal
engineering



TABLE OF CONTENTS

PAGE

Section 1: Introduction & Organization Chart	1-1
Section 2: Key Personnel Qualifications & Experience	2-1
Section 3: Relevant Experiences & References	3-1
Section 4: Understanding of Project/Familiarity	4-1
Section 5: Agency Project Experience	5-1
Section 6: Current Workload	6-1

Attachments:

Attachment I: Past Criminal Convictions of Bidders Attestation Form
Attachment II: Non-Solicitation & Unemployment Affidavit
Attachment III: Certificate of Authority
Attachment IV: Certification Regarding Debarment
Attachment V: E-Verify Affidavit
Attachment VI: Sub Consultant BFM Corporation, LLC

Section 1 Introduction & Organization Chart

Pivotal Engineering, LLC is a full-service engineering firm based in New Orleans, Louisiana. Pivotal Engineering has established a reputation for delivering superior service to its clients and enjoys a reputation for quality work, delivered on time and on budget. Pivotal Engineering's principals and staff have in excess of 200 years of combined experience in civil engineering, mechanical engineering, electrical engineering, environmental engineering, disaster recovery, post-disaster facility assessments, construction management, inspection, data collection, data management, project management and program management for both public and private sector clients across the Gulf South Region. The current staff of Pivotal have extensive experience managing a variety of complex project type, from conception through construction or project completion.

Our Commitment to St. John the Baptist Parish Sheriff's Office

As a New Orleans-based engineering firm with pride in the River Parishes, Pivotal is committed to bringing St. John the Baptist Parish back online at full strength. Our staff will provide an optimized concurrent management / data collection / data analysis / damage assessment environment that will provide an opportunity to substantially maximize the appropriately high priority status of this project and minimize the overall project cost. Having a skilled, diverse team in-house will allow for continuous, internal, technical vetting of each phase of the project. Attention will be given to both quality of service and scheduling.

As guiding values, Pivotal strives for open communication and continual improvement. As this is a high-stakes / high-priority project, maximum attention will be given to each step of the project life-cycle. Each day, internal processes and methodologies will be revised to ensure that planning, implementation and decision-making conversations are facilitated with efficiency and effectiveness. **We are committed to providing comprehensive and high-quality damage assessment, FEMA project worksheet management, data collection and data management services to SJBP. We will prepare reports and datasets that can integrate seamlessly**

into existing city-owned databases (e.g., GIS), including photographs, geographic coordinates, asset ID and all other pertinent information.

Pivotal is committed to defining the project and setting expectations as our first step toward making this critical project a success. We are committed to applying various techniques for project estimation and cost control including:

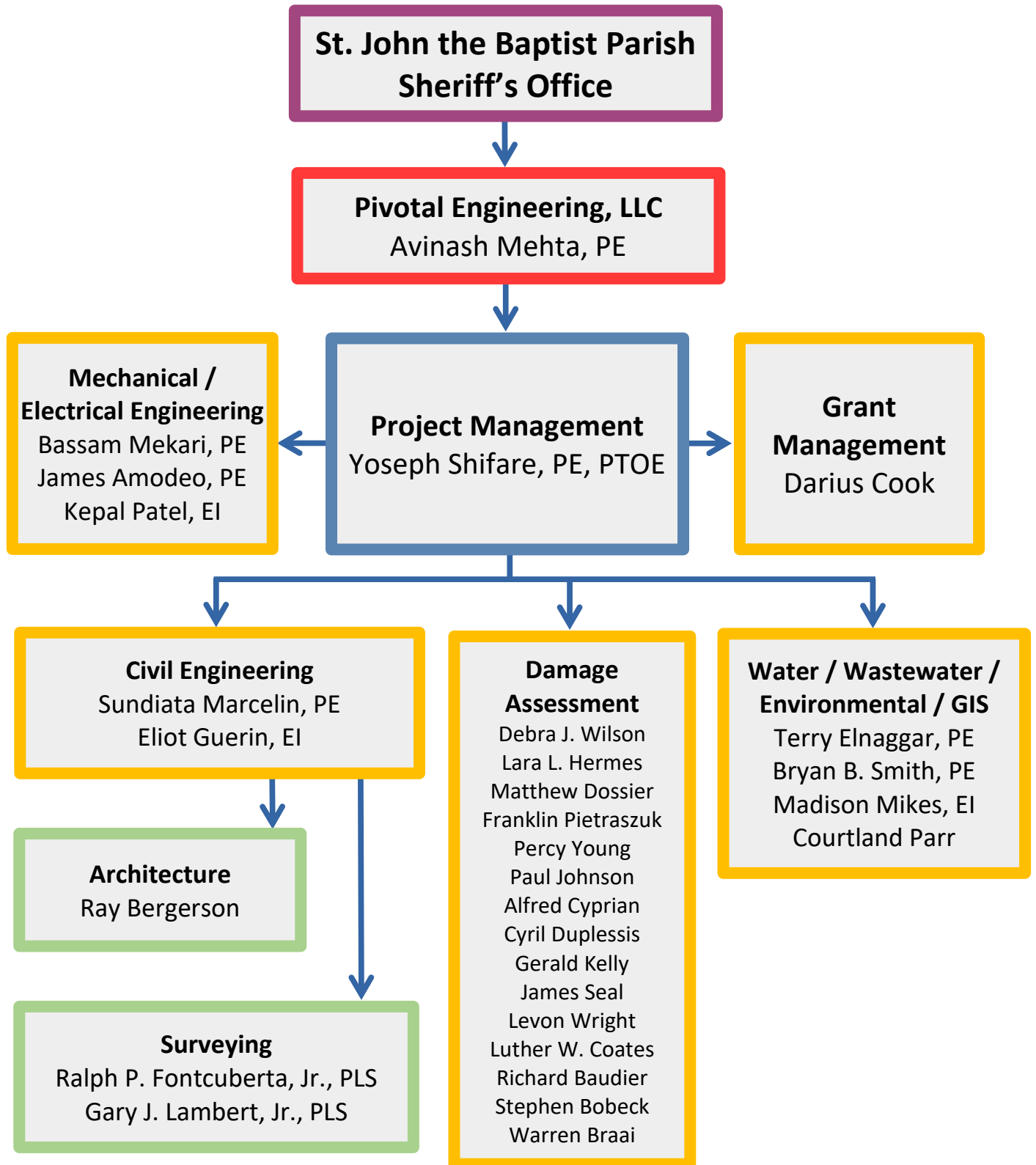
- Setting Expectations Early, Review Often
- Planning the Project Budget
- Calculating a life cycle cost benefit analysis
- Efficient data collection and management methodologies
- Keeping Track of Costs
- Establishing a Communication Plan
- Effective Time Management

Our Team

Our well-established team will provide efficient and technically-sound service through our mature internal working relationships and the comprehensive skill set. Each Pivotal staff bring a strong background in one or more of the following areas: in civil engineering, mechanical engineering, electrical engineering, environmental engineering, disaster recovery, post-disaster facility assessments, construction management, inspection, data collection, data management, project management and program management.

Please find our key staff listed in the Organizational Chart. Our key staff has strong technical and managerial skills. We have key staff who are well established in database management, geographic information systems (GIS), computer-aided design (CAD), damage assessments and FEMA project worksheets. Pivotal's capabilities will provide St. John the Baptist Parish Sheriff's Office with the most effective and efficient approach for parish-wide damage assessment and recovery.

Section 1.2 Organizational Chart



Section 2 Personnel Qualification

Pivotal's Key Personnel have proven excellence in managing projects from cradle to grave while providing value engineering, which saved our clients hundreds of thousands of dollars. Our staff was essential in helping metropolitan New Orleans in expediting its post Katrina recovery by handling and completing over 50 critical City, Parish and/or FEMA funded projects. The current staff of Pivotal has extensive experience managing a variety of complex projects from conception to construction.

Pivotal's staff have strong experience in engineering design, construction management, construction/resident inspection, grant management, disaster recovery, facilities assessment, data collection and data analysis. This diverse mixture of experiences gives Pivotal a unique advantage to eliminate unnecessary costs, expedites project schedules and improves project details. Our engineers, managers, inspectors and administrators have a great track records with helping our clients meet compressed deadlines while eliminating unnecessary expenses yet delivering better than the intended product. We have also proven to our clients our added "Value Engineering" on several projects, which resulted in direct savings of hundreds of thousands' dollars.

We ask that you note the resumes of key staff specialized experience under each category included herein.

Client Liasion / Point of Contact:

Avinash Mehta, PE
Principal- In Charge

Education

M.S. Civil Engineering, University of Central Florida, 2003

B.S. Civil Engineering, NMU – India, 2000

Professional Associations

LA PE # 35100

Experience

Mr. Mehta serves as a Principal of Pivotal Engineering. Mr. Mehta has over 18 years of experience managing civil and environmental engineering projects including project budget, schedule and scope, coordination of resources, business development and client liaison activities. His experience includes the project management for A&E projects, process and design, civil engineering, water and wastewater engineering, drainage design and permitting, wastewater system design, potable water system design, conceptual planning, and design for coastal restoration projects.

Project Management:

Yoseph Shifare, PE, PTOE
Project Director/ Senior Civil Engineer

Education

M.S. Civil Engineering, University of Louisville, Kentucky, 2014

B.S. Civil Engineering, University of Asmara, Eritrea, 2001

Professional Associations

LA PE # 42747

Experience

Mr. Shifare serves as a Project Director of Pivotal Engineering in charge of Civil/Transportation engineering projects. He has over 19 years engineering, project and construction management experience for public infrastructures, industrial, commercial and private facilities. As a project director he designs, lead and manage the day-to-day efforts of engineers on projects that include roadway, traffic, drainage/storm water management, water and wastewater, and landfills. He is responsible to client liaison, manage the strategic aspects of project engagement, review high-level project deliverables, provides leadership, project accounting and ensures the engineering practice meets or exceeds industry standard.

Grant Management:

Darius Cook **Construction Administrator**

Education

BS, Civil/Environmental Engineering in progress

Professional Associations

Louisiana Licensed: Asbestos Contractor, Asbestos Inspector and Lead Inspector

Experience

Mr. Cook is an experience FEMA disaster recovery professional. He has been a cornerstone of Pivotal Engineering projects in SJBP and is positioned to continue in a “pivotal” role. Additionally, he is experienced with overseeing the overall construction activities of the project; preparing daily diary reports of the construction activities; keeping daily, weekly and monthly quantities for the job cost tracking; meeting with contractor and owner’s representatives to discuss job progress, concerns, project milestone dates, and contract time and scope; and interacting with the client to make sure all concerns and needs are addressed.

Data Collection, Quality Control and Management:

Bryan Smith, PE **Data Collection Lead**

Education

BS / 2011 / Environmental Engineering

MS / 2014 / Civil and Environmental Engineering

Professional Associations

LA PE # 0043843/ 2019

Experience

Mr. Smith serves as a project engineer at Pivotal Engineering, LLC in support of civil and environmental engineering projects. His projects range from public to private sector and require effort in both the field and the office. He has experience in infrastructure design, project management, permitting, treatment plant design and permitting, water/wastewater master

planning, large-scale disaster recovery, data collection, data management, geographic information systems (GIS), construction cost estimation and Phase I, II, III environmental site assessments. He will serve as the data collection manager.

Courtland Parr **Data Analyst**

Education

BS / 2019 / Petroleum Engineering

Experience

Mr. Parr serves as a project manager at Pivotal Engineering. His experience includes preparing compliance reports, performing environmental sampling, and managing disaster recovery projects. His experience also includes working in AUTOCAD Civil 3d for volumetric and groundwater flow modeling. For this project, he will serve as a data analyst and QA/QC.

Madison Mikes, EI **Data Analyst**

Education

BS / 2018 / Environmental Engineering

MS / 2020 / Environmental Engineering

Professional Associations

LA EI # 0033878 / 2018

Experience

Ms. Mikes serves as project engineer at Pivotal Engineering. Her projects include compliance monitoring, reporting and designing of environmental systems. She has experience with compliance activities associated with air permitting, water discharge permitting and solid waste permitting. She has managed large datasets and will serve as data analyst and QA/QC for this project.

Damage Assessment:

John G. Scott Sr. Data Collection/Inspector

Education

Mississippi State University Certification for Lead Inspector/2012

Professional Associations

U.S. Army Corps of Engineers Certification for Construction Quality Management

Experience

Mr. Scott has the ability to read and interpret construction documents such as plans, specifications, submittals, and RFI's have enable me to work on a daily basis with project engineers, construction managers, general contractors, and sub-contractors as lead quality assurance inspector on federal, state government, public works, and commercial projects. His knowledge of construction inspection and quality control includes asphalt paving, compaction testing, concrete (foundations, roadway, sidewalk), backfilling, equipment inspection, grading, reinforcing steel inspection, site work preparation (clearing and grubbing), and utilities installation (drainage, sewer and water).

Kepal Patel, EI Damage Estimator

Education

B.S. Electrical Engineering/University of New Orleans

Professional Associations

LA EI # 34453 / Electrical Engineering

Experience

Mr. Patel serves as an electrical designer and cost estimator for Pivotal Engineering. He has experience in facility assessment, inspection reporting and cost estimation. Mr. Patel design experience includes CADD work, generally to show the pole location, laying out circuit design from the power source to individual poles, type of foundation used, type of fixture used and include its specifications. Currently, he is working on

several JP streetlight projects and his role requires Voltage Drop Calculations, Conduit sizes, Wire sizes, grounding and bonding etc. and thus determine what kind of electrical components would be required for the installations.

Stephen G. Bobeck Data Collection/Inspector

Education

Diploma, Pope John Paul II High School

Professional Associations

NJSAT – Asphalt Paving Construction Technologist

Experience

Mr. Bobeck has fifteen years of experience as a construction inspector for various projects that include cast- in-place structural concrete for bridge and building structures and numerous heavy asphalt paving jobs. As Field Technician Manager, Mr. Bobeck has overseen the installation and testing of various driven pile foundations including timber-concrete composite and precast pre-stressed concrete piles.

Grady Geiger, Jr. Data Collection/Inspector

Education

Tulane University, Civil Engineering Program

Professional Associations

U.S. Army Corps of Engineers

Experience

Mr. Geiger has forty-seven years (47) of Construction Inspection Experience. William Grady Geiger, Jr. was employed by U.S. Army Corps of Engineers as a Senior Civil Engineering Technician for 35 years. He achieved GS-11 level. While there he performed government estimates of project components in electrical, architectural and various other engineering disciplines. Mr. Geiger will serve as a damage estimator.

Gerard Kelly
Data Collection/Inspector
Education

Delgado College – New Orleans, LA
Associates Degree Civil Engineering

Experience

Mr. Kelly has more than 30 years experience in the construction in industry as inspector for projects with installation and repair of underground utilities in and around the New Orleans area with emphasis on: Sewer, sewer force mains, water mains, drainage, electrical conduit and related structures, Asphalt, concrete roadways and related bases, Dirt work, Cast in place bridges and precast bridges, Deep work ie: lift stations, pipe and structures. He also has experience in Estimating, submitting proposals, monthly estimates, purchasing, change orders, quantity verifications, and cost control reporting and Field QC management. Mr. Kelly will serve as an inspector.

Debra Jacques Wilson
Damage Estimator

Education

High School Diploma, Picayune Memorial High School

Professional Associations

None

Experience

Ms. Wilson has more than twenty (20) years of experience with FEMA cost estimation, inspection and grant management. She brings a wealth of knowledge in methods and implementation of large-scale inspection projects. She has a proven track record for delivering high-quality products on time and under budget. She has extensive experience with FEMA cost estimation software.

Lara Hermes
Damage Estimator

Education

B.S. from University of Houston

Professional Associations

None

Experience

Ms. Hermes has over fifteen (15) years of experience in the areas of disaster recovery and facility assessments. She played a strong role in FEMA inspections, post-Hurricane Katrina. From there, her experience in the disaster recovery/damage assessment industry has strengthened through continual, progressive work experience. She has served on large projects as the lead disaster damage assessor.

Matthew Dorris
Education

High School Diploma

Professional Associations

None

Experience

Mr. Dorris has over eight (8) years of experience in disaster recovery, property assessment and construction management. He brings years of experience in environmental remediation, disaster recovery and facilities assessment.

Josef Franklin Pietraszuk
Damage Estimator

Education

Bachelors of Fine Arts

Experience

Mr. Pietraszuk has over twenty (20) years of experience in the areas of construction management, disaster recovery, site inspection (including reporting and photographic documentation) and FEMA requirements. He has worked extensively with FEMA for disaster recovery efforts and grant management work. He has provided inspection services for large-scale damage assessment programs.

Engineering Staff:

Electrical

Bassam Rossi Mekari, PE Project Manager – Electrical

Education

BS, Electrical Engineering, Louisiana State University 1987

MS in Electrical Engineering - 3 hours remaining

Professional Associations

LA PE # 31801, NFPA Member, ASHRAE Member, American Military Engineers

Experience

Mr. Mekari serves as a Principal of Pivotal Engineering and the Engineering Manager in charge of all of the electrical engineering projects. He has over 28 years of experience in designing and installing electrical distribution systems for public, commercial, and industrial facilities such as schools, fire stations, justice centers, police stations, street lights, lift stations, PLC automations and thermal reactors. He also designed/built electrical installations throughout the US and worldwide. Mr. Mekari has designed over 100 electrical systems and will be instrumental in the overall electrical design and project management.

John “Johnny” A. Mekari, P.E. Senior Electrical Engineer

Education

B.S. Electrical Engineering, 1987

Professional Associations

Louisiana, Electrical Engineering, 25415
Mississippi, Electrical Engineering, 14670
Texas, Electrical Engineering, 87303

Experience

Mr. Mekari serves as the Senior Electrical Engineer of Pivotal Engineering. He has 26 years Electrical Systems Design & Installations Mr.

Mekari serves as the Vice President of Pivotal Engineering for the Baton Rouge Operations. He has developed extensive experiences in designing and installing Electrical Distribution Systems and Control Systems for industrial, commercial and municipal facilities. The footprint of the projects designed by Mr. John Mekari extends to local, national and international levels.

Irish Jones Electrical Designer/Contractor

Education

5 years of college in Electrical Engineering – University of Texas at Arlington

Professional Associations

None

Experience

Mr. Jones serves as the senior electrical designer of Pivotal Engineering. He has over 40 years of experience in designing electrical installations (power distributions) for industrial and commercial applications of all magnitudes. He obtained his first Class A electrical license in 1967 in Georgia. Being an electrical contractor for over 40 years, Mr. Jones has developed an extensive experience in not only designing and laying out electrical designs, but also in supervising the installations in the construction phase. His expertise allows the team to provide the BEST and MOST ECONOMICAL Electrical Design for any facility. Due to his experience as an electrician and a contractor, Pivotal will not need to depend on the In-plant electrician while conducting the electrical components field investigations.

Mechanical

James Amodeo, PE Mechanical Engineer

Education

B.S. Mechanical Engineering, S.U.N.Y at Stony Brook, Stony Brook, New York

Professional Associations

Louisiana / Mechanical / 36489
Colorado / Mechanical / 36652

Experience

Mr. Amodeo serves as the Senior Mechanical Engineer for Pivotal Engineering. He has over 18 years of experience in designing and specifying mechanical and plumbing systems for municipal, industrial, commercial, process and manufacturing applications of all magnitudes. Mr. Amodeo is an ASHRAE Member, NSPE Member, and ASME Member.

Civil Engineering

Sundiata Marcelin, PE Civil Engineer

Education

BS, Civil Engineering

Professional Associations

LA PE # 38589

Experience

Mr. Marcelin serves as a Project Civil Engineer at Pivotal Engineering. He has over 10 years of experience in Civil & Structural Engineering & Construction Management. Mr. Marcelin is also experienced with FEA Analysis and Structural Analysis, Hazard Mitigation Design & Residential and Commercial Design & Permitting.

Eliot Guerin, EI Project Engineer

Education

B.S. / 2018 / Civil Engineering

Professional Associations

2018 E.I./Civil Engineering

Experience

Mr. Guerin serves as a civil designer, construction manager and cost estimator for Pivotal Engineering. He has two (2) years of experience at Pivotal Engineering, focusing on roadway, sanitary sewer, and storm drainage design. So far, he has done design in these areas for several projects which span municipal utilities to school

infrastructure. In addition, Mr. Guerin has 6 months of experience at Zachry Group over the course of two internships, one of which was at an active construction site, and contributed a significant amount of estimating work for new power plant.

Environmental / Water / Wastewater

Tarek Elnaggar, PE Environmental Engineer

Education

M.S. Civil Engineering, University of California, Berkley, 1988

B.S. Civil Engineering, Louisiana State University, 1985

Professional Associations

Louisiana/Civil/Environmental
Engineering/23832 Texas/Civil/Environmental
Engineering/85089

Mississippi/Civil/Environmental
Engineering/14839

Experience

Mr. Elnaggar serves as a Principal of Pivotal Engineering LLC. He is the lead Environmental Engineer for the company. His experience includes design and construction management for civil and environmental projects, which include municipal and industrial solid waste permitting, risk assessments, disaster recovery, large-scale multi-media clean-up, water permitting and compliance, air permitting and compliance, emission inventories and reporting, groundwater investigations, regulatory compliance, environmental process design, permitting, and waste treatment system design. He will serve as senior environmental technical support staff for this project.

Bryan Smith, PE **Environmental Engineer**

Education

BS / 2011 / Environmental Engineering
MS / 2014 / Civil and Environmental Engineering

Professional Associations

LA PE # 0043843/ 2019

Experience

Mr. Smith serves as a project engineer at Pivotal Engineering, LLC in support of civil and environmental engineering projects. His projects range from public to private sector and require effort in both the field and the office. He has experience in infrastructure design, project management, permitting, treatment plant design and permitting, water/wastewater master planning, large-scale disaster recovery, data collection, data management, geographic information systems (GIS), construction cost estimation and Phase I, II, III environmental site assessments. He will serve as the data collection manager.

Courtland Parr **Project Engineer**

Education

BS / 2019 / Petroleum Engineering

Experience

Mr. Parr serves as a project manager at Pivotal Engineering. His experience includes preparing compliance reports, performing environmental sampling, and managing disaster recovery projects. His experience also includes working in AUTOCAD Civil 3d for volumetric and groundwater flow modeling. For this project, he will serve as a data analyst and QA/QC.

Madison Mikes, EI **Project Engineer**

Education

BS / 2018 / Environmental Engineering
MS / 2020 / Environmental Engineering

Professional Associations

LA EI # 0033878 / 2018

Experience

Ms. Mikes serves as project engineer at Pivotal Engineering. Her projects include compliance monitoring, reporting and designing of environmental systems. She has experience with compliance activities associated with air permitting, water discharge permitting and solid waste permitting. She has managed large datasets and will serve as data analyst and QA/QC for this project.

Architecture

Ray Bergeron **Chief Architect**

Education

BS / 1963 / Architecture

Experience

Mr. Bergeron has over 40 years of professional experience, working on various projects across the Greater New Orleans and Baton Rouge Area for the state of Louisiana, and the Southeastern United States ranging in costs from \$100,000 to \$25,000,000. During his career, Mr. Bergeron was responsible for the design of numerous office buildings, hotels, restaurants, retail facilities, health and medical facilities, institutional, recreational, and interior designs, as well as single family and multi-family dwellings.

Surveying

Ralph P. Fontcuberta, Jr. PLS **Registered Professional Land Surveyor**

Education

BS / 1967 / Mathematics

Experience

Ralph P. Fontcuberta, Jr., PLS has better than half a century of experience in the field of surveying and has been a registered Professional Land Surveyor (PLS) since 1974. He co-founded BFM Corporation in 1982 after serving with another surveying firm for over 15 years and is currently a partial owner of the firm. Mr. Fontcuberta is thoroughly knowledgeable in all facets of surveying: boundary, hydrographic, topographic, and right-of-way surveying, as well as residential, plant, and industrial layout. Since the beginning of his career, his work has entailed computations, drafting, and field work for various industrial, commercial, municipal, and private clients.

Gary J. Lambert, Jr. PLS **Project Manager/Drafting Specialist**

Education

BS / 2018 / Geomatics

BS / 2014 / Construction Management

Experience

Mr. Lambert provides Project Management and Drafting Oversight for the firm. He has also provided Survey Crew Chief Services since joining BFM and offers a well-rounded experience overview for any project. Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523) and is a Registered Professional Land Surveyor in the State of Louisiana (No. 5929, 2021).

Section 3 Relevant Experience

Team Summary

Pivotal Engineering, LLC: Pivotal is a full-service engineering design firm based in New Orleans, Louisiana. Pivotal has established a reputation for providing superior service to its clients and delivering quality work on time and within budget. Pivotal's principals and staff have in excess of 200 years of combined experience in architecture, civil engineering, mechanical engineering, electrical engineering, structural engineering, environmental engineering, disaster recovery / facility assessments, construction management, construction inspection and program / project management for both public and private entities across the Gulf South Region.

Pivotal Engineering is currently providing these engineering, management and inspection services to many municipalities and state agencies in the region including: City of New Orleans, Jefferson Parish, City of Shreveport, City of Kenner and St. Charles Parish. These services have also been provided to private clients such as Entergy, Waste Management, and private developers. Pivotal Engineering has in depth understanding of both procedural and regulatory requirements for local, state, and federal governmental agencies.

Pivotal Engineering has a proven track record in the areas of disaster recovery, facility assessment and data management. Our many successful projects showcase our commitment to restoring our city and our diverse and precious communities. As highlight in Section 3: Technical Approach and Section 4: Key Personnel, Pivotal has the local experience, technical skill set and established relationships needed to provide top tier and efficient service to St. John the Baptist Parish Government. During this time of immediate need, Pivotal has the required staff available to mobilize quickly and consistently.

Pivotal is a certified Small Business Enterprise with both the Small Business Administration and the New Orleans Regional Transit Authority. Furthermore, Pivotal is a Disadvantaged Business Enterprise with City of New Orleans, Sewerage & Water Board of New Orleans, Louis Armstrong

New Orleans International Airport, Harrah's New Orleans Casino & Hotel, and the Housing Authority of New Orleans (HANO). Pivotal Engineering is also certified by the Louisiana Department of Economic Development as a Small Entrepreneurship SE (Hudson Initiative) firm.

Pivotal Engineering, LLC is conveniently located in the center of New Orleans. Since its inception, Pivotal's main office of operations has been at 1515 Poydras St. Suite 1875, New Orleans, LA. 100% of the work assigned to Pivotal will be performed from the main office.

BFM Corporation, LLC: To shore up our team with the most qualified professional land surveyors, Pivotal Engineering is proposing to use BFM to fully execute each and every surveying scope of work item. Established in 1982, BFM Corporation, LLC, Professional Land & Hydrographic Surveying, has provided services to public & private concerns throughout Louisiana and the Gulf South. The firm provides surveying services covering all facets of engineering, construction, and forensics; topographic, hydrographic, and high-definition laser scanning.

BFM offers Drone Surveying Services, featuring a DJI Matrice 600 Pro drone outfitted with a Sony A7R3 42-megapixel camera, Pixhawk Triggering System, VMAP PPK system, and an A3 Pro Flight Controller. The unit can fly with payload for 20 minutes and can capture 50 acres of land in that time (with a flight ceiling of 165 feet, pixel quality is 0.71 CM). This system allows BFM to quickly & accurately capture data and facilitates quicker field work to produce highly accurate and precise surveying information. Deliverables feature Clean Point Cloud, 3D Mesh, Orthomosaic, and AutoCAD DWG Topographic.

Experiences with similar projects

Pivotal Engineering team includes senior civil and environmental engineers and technicians with extensive experience and excellence in managing projects from cradle to grave while providing value engineering, which saved our clients hundreds of thousands of dollars. Our staff was essential in helping metropolitan New Orleans in expediting its post Katrina recovery by handling and completing over 50 critical City, Parish and/or FEMA funded projects. The current staff of Pivotal has extensive experience managing a variety of complex projects from conception to construction.

Proven with experience, Pivotal is routinely retained by Fortune 500 companies and government agencies to provide compliance solutions. The following is brief summary the team's experience.

Experience with Damage Assessment Projects

Pivotal's staff performed some of the largest emergency assessment projects in the State of Louisiana post-Hurricane Katrina both within the City of New Orleans and throughout the State of Louisiana. Pivotal employed close to 400 employees post-Katrina, most of whom focused on damage assessment projects. Below are some of the project descriptions:

(1) New Orleans Main Levee Inspections and Tree/Root Extractions – Pivotal's staff was assigned the critical task of inspection several large stretches of the New Orleans and Jefferson Parish levees for any damage due to tunneling or rotting tree roots embedded within. Those tasks were performed under the supervision of the New Orleans branch of the Army Corps of Engineers.

(2) House Damage Inspections and Evaluations (structural, electrical, mechanical and environmental assessments) – Pivotal's staff were essential in

helping FEMA assessing and inspecting damages caused to thousands of homes post-Hurricane Katrina. The majority of such homes were located in both the parishes of Orleans and Jefferson. Pivotal was essential in creating the damage inspection / assessment reports that FEMA used as a template throughout their efforts. We were also tasked to determine whether a structure can be salvaged, repaired or needed to be replaced. This decision was mainly based on the actual cost of the repairs versus total replacement cost.

(3) Asbestos Inspections and Assessments for Hurricane-Damaged Structures

– We were issued a large task to evaluate and assess the majority of the damaged structures for existing asbestos prior to any demolitions. We trained and employed over forty asbestos inspectors and created the assessment reports formats that FEMA had used. We were also the largest employer for asbestos inspectors in the country.

(4) Tree Limbs and Debris Assessment and Removal Evaluation

– We were tasked with evaluating all of the tree limbs and debris throughout Jefferson and Orleans parishes. We had over seventy employees to perform such task.

(5) Intercoastal Waterways and Canals Hydro Locks Assessment and Evaluation

– We were assigned by the task to evaluate the electrical and mechanical integrity of all of the locks post-Katrina. We also provided an opinion of probable cost for the damage while designing and highlighting the required repairs.

(6) USDA Debris Assessment in Rivers and Inland Waterways

– Pivotal was the main emergency contractor for the USDA post-Katrina to evaluate and assess debris and falling trees that caused restrictions to canals, rivers and waterways. These items were contributors to

localized flooding. We were assigned the clean up tasks.

(7) Flooded Structures Damage Assessment and Determination of Clean-Up Scope

– Pivotal was assigned by FEMA the scope to assess the flooded structures in the City of New Orleans while determining the extent of the clean up scope. Pivotal also performed the actual demolition to remove the flooded components from the structures and to spray anti-mold solution while prepping the structures for repair. We assessed most of the iconic buildings for the City of New Orleans, including police and fire stations.

(8) Damage Assessment of NORD Baseball Fields

– Pivotal was retained by the City of New Orleans to provide emergency assessment for over eighty (80) NORD baseball fields and playgrounds, in order to put them back into operation. We were also tasked to define the scope of the required repairs to lights and poles as well as to design bid packages for the actual repair work.

(9) NORD Swimming Pools Assessment and Implementation of the Virginia Graeme Baker Anti-Entrapment Act

– After Hurricane Katrina, Pivotal was assigned the task to evaluate and assess all of NORD-managed swimming pools for the Virginia Graeme Baker Act, which enforces anti-entrapment regulations for all pools in order to ensure that no kids can get entrapped onto the suction inlets. Post the assessment task, Pivotal was asked to re-engineer the piping systems for anti-entrapment mechanisms.

Experience with FEMA, HMGP and CDBG Program Projects

(1) Assessments across Orleans Parish, New Orleans, LA

Pivotal was retained by the U.S. Army Corps of Engineers/ Recovery Field to conduct Quality Assurance (QA) for Asbestos Surveys for houses slated for demolition from hurricanes Katrina and Rita. Team conducted over 3000 asbestos (QA) inspections and employed over 40 Louisiana certified asbestos inspectors.

Demolition required proper designation of debris and separation of regulated asbestos containing materials (RACM) and compliance National Emission Standards for Hazardous Air Pollutants. Developed a detailed Quality Assurance Project Plan (QAPP) and Contractor Safety Plan. After each survey, shipped bulk asbestos samples to the state certified laboratory for analysis. Upon receipt of the analytical results, inspectors prepared detailed reports for each structure documenting, the location, prime contractor's compliance the Asbestos NESHAP, summary of results, and proper designation of the structure. To assist in expediting report transmittal, a file transfer protocol (FTP) web site and database was established. Inspectors uploaded batches of report to the FTP site and notified the USACE by email.

Pivotal's staff has conducted similar projects under the FEMA guidelines post Katrina. One of such projects is the overall structural evaluation of the damaged structures throughout Orleans Parish where we had to create a data base to log in each property location with the evaluation report. We also created the inspection report which was approved by FEMA and made final recommendations whether to demolish or repair the property based on cost analysis. We also provided similar assessments for all of the NORD parks lightings throughout the City and made repair recommendations, cost estimates and final design documents that were approved by FEMA.

(2) St. John Parish Planning and Zoning Building Environmental and Damage Assessment (Isaac), St. John Parish, LA

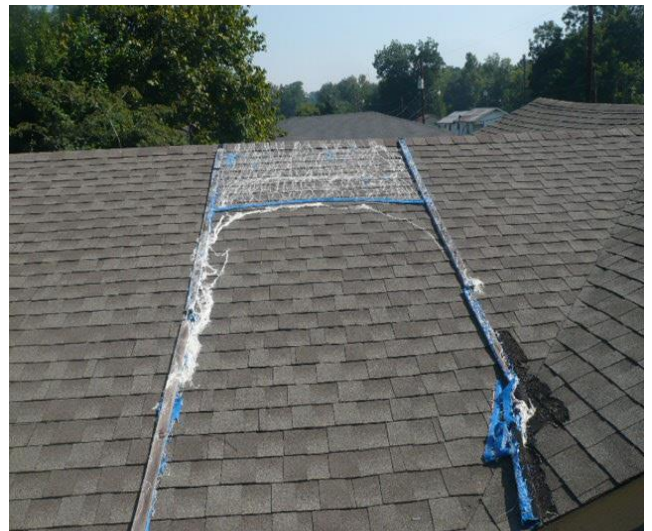
Pivotal's personnel provided an Asbestos/Mold inspection and damage assessment of the St. John Parish Planning and Zoning Building immediately after Hurricane Isaac. Pivotal's personnel were deployed within 24-hours of request by the Administration to assess storm damage and provide recommendations for re-occupancy. Pivotal's personnel conducted the physical inspection on 9/3/12 and submitted the final report 9/5/12. Pivotal personnel's commitment to the Parish and its employees allowed for timely occupation of the building.



(3) St. John Parish Minor Housing Repair Program (Gustav/Ike), St. John Parish, LA

Pivotal's personnel provided Project Management and Inspection services for repairs to residential properties throughout St. John Parish. Pivotal personnel deployed 6 inspectors (including 3 LDEQ Asbestos/Lead Inspectors) to conduct inspections on both the east and west bank of St. John Parish. Pivotal's personnel worked closely with the Grants Manager to modify the existing program. A review of the program's policies reflected charges by the program's contractors would exceed both the local and national averages for labor as shown by our RSMeans software. Pivotal's personnel proposed the implementation

of a system of competitive bidding between the contractors. The new system proved valuable. It allowed the Parish to be billed at fair-market rates resulting in the inclusion of more applicants and better allocation of funding. Pivotal's Project Manager provided real-time cost tracking as construction on properties commenced. Every week, the Grants Manager was provided a "Status Listing" which showed the status of each property inspected and under construction. This listing included the Applicant's Information, Program Eligibility, Project Manager's Opinion of Cost, Construction Cost and Inspection Notes. The listing also showed the program's overall funding available, budget projections and average construction cost of each property. These figures allowed the Grants Manager to be well aware of the program's standing upon request from the Parish President, Chief Administrative Officer and Council Members.



(4) Mimosa Park Elementary School Improvements and Inspections, St. Charles Parish, LA

Pivotal's personnel successfully scoped, designed, and managed the construction of a new 280 ton chilled-water 4-pipe HVAC system and electrical power distribution system for the existing 50,000 square foot campus. In the long term, the new system designed will provide a cost savings to the St. Charles School Board of approximately \$10,000 - \$15,000 per year. Pivotal personnel were also responsible for providing staff to

conduct baseline, daily, and clearance asbestos air monitoring during the removal of asbestos piping.

(5) St. Charles Parish School Board Transportation Facility, St. Charles Parish, LA

St. Charles Parish School Board's East Bank school bus maintenance facility was 50% over capacity of the existing facility, resulting in delays in service and maintenance and making training difficult. Pivotal was retained to develop the conceptual design for an expanded facility. The improved facility will provide additional service bays, parts storage, new training/meeting room, driver lockers, and offices for dispatch, maintenance and accounting. More efficient electrical and mechanical systems will be incorporated into the new facility. The design will also include new fueling facilities and expanded parking areas, as well as a state of the art bus wash station.

(6) City of New Orleans Mosquito Control Hangar Facility Hurricane Katrina Repairs and Renovations, New Orleans, LA

Pivotal's personnel provided a Comprehensive Damage Report to be reviewed by FEMA and the City of New Orleans for repairs or replacement of the existing facility. This report was critical in substantiating the City of New Orleans' claim for additional funding to repair the facility. Pivotal personnel included in the design an elevated chemical storage, V-Zone structural enhancements, and MEP upgrades. The end result of our diligent work allowed for a building to withstand wind load of up to 135 mph.



(7) City of New Orleans Fire Engine# 10 Hurricane Katrina Repairs and Renovations, New Orleans, LA

Pivotal personnel's persistence in providing supplemental documentation to FEMA as it related to required building code issues, health and safety issues, and usability of the facility justified the development of four additional revisions to the FEMA PW for this facility. Pivotal personnel were able to successfully substantiate the inclusion of approximately \$220,000 of additional work funded by FEMA.



This work included a new backup generator, new lighting fixtures, new plumbing fixtures, and new air handling units.

(8) FEMA HMGP Elevation Program, Washington Parish, LA

Pivotal Engineering is providing Project Management and Inspection services for repairs to residential properties throughout Washington Parish under the grant from FEMA HMGP elevation program.

- a. Pivotal provide current Flood Elevation Certificate for each property. Coordinated with each homeowner as needed for access.
- b. Pivotal reviewed each FEL to determine the minimum lift required to meet the current BFE plus allowable freeboard.
- c. Pivotal coordinated with each homeowner a date/time to inspect the property. This inspection shall determine the feasibility of the lift, elevation type, site suitability and structural deficiencies that may impose on the lift.
- d. Pivotal utilized data collected from the site inspection to produce the final design detailing the required scope of work for each property and a proposed cost of construction. The scope of work includes structural improvements needed for a successful lift.
- e. Pivotal provided bid packages for each property based on information contained within the inspection report. Pivotal notified pre-qualified contractors from the Parish's pool via email.
- f. Pivotal assisted the Parish in the collection and tally of bids at final submission and provide a written recommendation of award upon review
- g. Pivotal conducted two (2) milestone inspections; 50% and 100% construction completion, during the course of construction. Each milestone inspection report will be accompanied by a report and progress photos. The reports also identified any construction related issues, proposed change orders and homeowner concerns.
- h. Upon substantial completion, punch list inspections is conducted on an as-needed

basis and reported on the 100% construction inspection report.

Experience with Grant Application projects

Pivotal Engineering team includes senior engineers and administrators with extensive experience preparing grant writing proposals. Pivotal is routinely retained by Fortune 500 companies and government agencies to prepare proposals for various funding sources. The following is a brief summary of the team's experience.

(1) Louisiana Department of Natural Resources Revolving Loan Fund Application for the Causeway Boulevard (Veterans Overpass to 6th Street) Street Lighting Improvement project; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to complete the Louisiana Department of Natural Resources Revolving Loan Fund Application for the Causeway Boulevard (Veterans Overpass to 6th Street) Street Lighting Improvement project.

The scope consisted of providing preliminary and final design phase services for design and construction plan preparation of the Causeway Boulevard (Veterans Overpass to 6th Street) Street Lighting Improvement. The major scope of the improvement is removal and replacement of existing lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 4,800 ft (0.9 Mile) on parish owned roadway.
- b. Remove and replace existing street lights (see attached map for approx. locations)
- c. Recommended pole spacing 150 to 160 ft
- d. Recommended mounting height max. 40ft (recommended pole height 35 ft)
- e. Recommended LED lighting

- f. Recommended 3 to 4 feed points (120 – 240 volt)
- g. Recommended Helical street light foundation
- h. Wiring (directional bore conduit), E-boxes, Fixtures, and miscellaneous construction
- i. Supplemental Services: surveying

(2) the Louisiana Department of Natural Resources Revolving Loan Fund Application for the Green Acres Rd. Street (W. Metairie Ave. to Airline Dr) Lighting Improvement project; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to complete the Louisiana Department of Natural Resources Revolving Loan Fund Application for the Green Acres Rd. Street (W. Metairie Ave. to Airline Dr) Lighting Improvement project.

Scope consisted of providing preliminary and final design phase services for design and construction plan preparation of the Green Acres Rd. Street Lighting Improvement (W. Metairie Ave. to Airline Dr.). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

1. Length of project is approximately 2,700 ft (0.51 Mile) on parish owned roadway.
2. Recommended pole spacing 150 to 160 ft
3. Recommended mounting height 16ft
4. Recommended LED lighting
5. Recommended 2 feed points (120 – 240 volt)
6. Recommended Helical street light foundation
7. Wiring (directional bore conduit), E-boxes, Fixtures, and miscellaneous construction
8. Supplemental Services: surveying and Geotechnical investigation

(3) Louisiana Department of Natural Resources Revolving Loan Fund Application for the Metairie Rd. Street (Bonnabel Blvd. to Orpheum Ave) Lighting Improvement project; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to complete the Louisiana Department of Natural Resources Revolving Loan Fund Application for the Metairie Rd. Street (Bonnabel Blvd. to Orpheum Ave) Lighting Improvement project.

The scope consisted of providing preliminary and final design phase services for design and construction plan preparation of the Metairie Rd. Street Lighting Improvement (Bonnabel Blvd. to Orpheum Ave). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

1. Length of project is approximately 8,500 ft (1.6 Mile) on parish owned back of curb to property line right of way.
2. Removal of existing metal pole street lights.
3. Recommended pole spacing 150 to 160 ft
4. Recommended Dunwoody Aluminum Pole, mounting height 14ft/16ft with 20" base
5. Recommended 100W LED lighting
6. Recommended feed points (120 – 240 volt)
7. Recommended Helical street light foundation
8. Wiring (directional bore conduit), Fixtures, and miscellaneous construction
9. Requires Arborist service, tree protection, root pruning and trenching as necessary
10. Supplemental Services: surveying

(4) Louisiana Department of Natural Resources Revolving Loan Fund Application for the W. Metairie Ave. U-Turns Street (Roosevelt Blvd. to David Dr.) Lighting Improvement project; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to complete the Louisiana Department of Natural Resources Revolving Loan Fund Application for the W. Metairie Ave. U-Turns Street (Roosevelt Blvd. to David Dr.) Lighting Improvement project.

The scope consisted of providing preliminary and final design phase services for design and construction plan preparation of the W. Metairie Ave. U-Turns Street Lighting Improvement (Roosevelt Blvd. to David Dr.). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

1. Recommended pole spacing 150 to 160 ft
2. Recommended Dunwoody Aluminum Pole, mounting height 14ft/16ft with 20" base
3. Recommended 100W LED lighting
4. Recommended 1 feed points (120 – 240 volt) for each intersection
5. Recommended Helical street light foundation
6. Wiring (directional bore conduit), Fixtures, and miscellaneous construction
7. Median concrete removal, hydro seed grass, and new sidewalk, new ADA ramp
8. Supplemental Services: Development of Plan Sheets from Aerials and JP utility sheets in lieu of Survey

The following four W. Metairie Ave. intersections and U-turns are included in the scope.

- Intersection of W. Metairie Ave. and David Drive
- Intersection of W. Metairie Ave. and Lynnette Drive

- Intersection of W. Metairie Ave. and N. Bengal Road

U turn on W. Metairie Ave. between N. Lester Ave and N. Howard Ave

(5) Louisiana Department of Natural Resources Revolving Loan Fund Application for the Extension of Cousins Boulevard (Woodmere Boulevard to Lapalco Boulevard) project; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to complete the Louisiana Department of Natural Resources Revolving Loan Fund Application for the Extension of Cousins Boulevard (Woodmere Boulevard to Lapalco Boulevard) project.

(6) Louisiana Department of Natural Resources (LDNR) grant loan application; Ascension Parish, LA

Pivotal is retained by Ascension Parish to assist the parish with a professional service to fill and apply the Louisiana Department of Natural Resources (LDNR) grant loan application for the following projects:

1. Butch Gore Memorial Park (6 fields) – Estimated project cost \$385,000
2. Darrow Community Center Playground and Park (1 field) - Estimated project cost \$165,000.
3. Leo Stevens Park and Playground (7 Field) – Estimated project cost \$460,000
4. Jackie Robinson Park (1 Field) - Estimated project cost \$195,000
5. Modeste Park and Playground (1 Field) - Estimated project cost \$165,000

(7) Louisiana Department of Natural Resources (LDNR) grant loan application; Ascension Parish, LA

Pivotal is retained by Ascension Parish to assist the parish with a professional service to fill and apply the Louisiana Department of Natural Resources (LDNR) grant loan application for the following projects:

1. Paul Park and Playground (5 Fields) - Estimated project cost \$360,000
2. Prairieville Park and Playground (1 Field) - Estimated project cost \$215,000
3. St. Amant Recreation Park (3 Fields) - Estimated project cost \$485,000
4. South Louisiana Fairgrounds (LaLa) (4 Fields) - Estimated project cost \$430,000
5. Southwest Park and Playground (1 Field) - Estimated project cost \$165,000

(8) LDEQ WWTP Loan Application; Kenner, LA

Pivotal was retained by The City of Kenner to complete the LDEQ Loan Application for five priority collection system projects. The lift stations will be completely rehabilitated with new pumps, panels, valves/fittings, wetwell coating etc.

(9) LDNR Energy Efficiency Application for the Causeway & Green Acres Street Lighting Project; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to complete the LDNR Energy Efficiency Application for the Causeway & Green Acres Street Lighting Project.

The proposed project includes installation of energy efficient LED lighting, associated electrical and professional services on Causeway (between Veterans Overpass to 6th St); Green Acres (Airline to W. Metairie). The foot print of the project is 10000 linear feet by 3 feet along crucial thoroughfare on Causeway Blvd and Green Acres impacting school and major local businesses. It is expected that installation of

energy efficient lighting will reduce the energy consumption and associated emission of greenhouse gas (GHG) emission. Green Acres currently has no lightings and the Parish intends to install energy efficient lightings on this street which also provides access to St. Martin's Episcopal School. Installation of energy efficient lighting will typically save 50% on energy bills than conventional lighting and also lower the maintenance cost.

(10) Environmental Protection Agency Gulf of Mexico Program Cooperative Agreements 2018 Grant Application for the Bayou Pattasat and Fritchie Marsh Improvements projects; Slidell, LA

Pivotal was retained by The City of Slidell to complete the Environmental Protection Agency Gulf of Mexico Program Cooperative Agreements 2018 Grant Application for the Bayou Pattasat and Fritchie Marsh Improvements projects.

The scope for the projects consisted of the following:

Bayou Pattasat:

To widen and deepen the existing Bayou Pattasat to allow for more conveyance and storage within the bayou.

Fritchie Marsh:

The construction of an approximately 12,000 foot long force main effluent pipeline along the general route of the W-14 canal from the Terrace Avenue WWTP. The effluent pump station at the Terrace Avenue WWTP would be improved to meet the required hydraulic conditions dictated by the new effluent pipeline.

Experience with roadway projects

Pivotal's engineers have with extensive experience and excellence in performing roadway and bike trail design including street vertical and horizontal geometry, drainage, water, sewer based on the requirements set in CNO, S&WB, LDOTD, AASHTO, FHWA and ADA requirements/specification and standards. In addition Pivotal Engineers have extensive experience in water and wastewater design, environmental site assessments, remediation, air, waste and water permitting and compliance, environmental Study services for a Categorical Exclusion ("CE"), Record of Environmental Considerations ("REC"), site-specific Environmental Assessment ("EA") in accordance to the National Environmental Policy Act ("NEPA"). Additional experience includes asbestos and lead inspections and the development of abatement plans.

We ask that you note the following projects that represent the specialized experience under the category of design engineering service:

(1) RR016 BW Cooper, Gert Town Dixon Group C, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs 9 blocks (3245 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase; and for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. The project was federally funded.

(2) RR017 BW Cooper, Gert Town Dixon Group D, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 12 blocks (4,015 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. This project was federally funded.

(3) RR018 BW Cooper, Gert Town Dixon Group E, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 15 blocks (6,075 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

(4) RR019 BW Cooper, Gert Town Dixon Group F, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 6 blocks (2,100 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

(5) RR076 Lake Vista Group D, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 5 blocks (1,750 ft) in the neighborhood of Lake Vista. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

(6) RR034 E. Carrollton Group C (Adams St.), New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 8 blocks (4,936 ft) in the neighborhood of Adams St. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.



(7) RR203 Gentilly Terrace South Group K, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway patch, mill and overlay reconstruction improvement). The project entails roadway rehabs to Gentilly Terrace neighborhood. This design of these streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included design of mill and overlay reconstruction, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

(8) RR138 Plum Orchard-West Lake Forest Group B, New Orleans, LA

Pivotal was retained by City of New Orleans for repaving the asphalt roadway from curb-to-curb, replacing damaged portions of concrete with new concrete, patching the roadway with asphalt, repairing damaged sidewalks and driveway aprons, installing ADA compliant curb ramps at intersections, and replacing/repairing damaged underground water, sewer and/or drainage lines.



(9) Wright Rd. Improvements, New Orleans, LA

Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

- Reviewed the required topographical survey of existing site conditions prior to start of design phase.
- Designed new drainage network for a 10 years return period.
- Designed new gravity sewer collection system to replace existing system that had been in service for more than 40 years.
- Designed new water main and located it on the median.

- Designed new street for tie-in to side streets.
- Coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The project was valued at \$9 million.



(10) Ramsey St. Improvements, New Orleans, LA

Pivotal personnel were retained to perform the design and construction supervision for the required improvements to Ramsey Street. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

Pivotal was also responsible for the following:

- Designing new drainage collection system that tied into an existing box culvert along adjacent intersection. This was necessary due to the re-occurrence of street flooding during any rain activity that takes place in this area.
- Designing new gravity sewer collection system to replace existing system that had been in service for more than 40 years.
- Designing new street for tie-in to major thoroughfare in the City of New Orleans.

- Coordinate all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.
- Construction Management of the overall construction of the above captioned work.

The project was valued at \$3,500,000.



(11) Pritchard Rd. Extension, Jefferson, LA

Pivotal Engineering is retained by Jefferson Parish to design roadway reconstruction and extension of Pritchard Road. The project scope includes the following:

1. Remove and replace existing 20 ft wide concrete roadway and replace with 26ft wide roadway and extend 130 ft to connect Pritchard Road to Sprig Street.
2. Remove and replace existing drainage piping. The design of drainage pipe networks is completed for a 10 years storm period using LADOTD drainage software.
3. Relocated existing street side ditch with a new ditch and box culvert. Drainage ditch, box culvert and junction box is designed for 10 years storm period.
4. Existing 10" and 18" SFM were required to be vertical and horizontal offset.



(12) Labarre Rd. Railroad Crossing Drainage Improvement, Jefferson, LA

Pivotal was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the Labarre Rd. Railroad Crossing Drainage Improvement. The major scope of the improvement includes:

1. The construction of a box at the south west corner of Labarre and the Norfolk railroad; construction of a box at the south east corner of Labarre and the Norfolk railroad; replacement of sidewalk access across the ditch adjacent to the tracks; and provide handicap ramps across the street from the crossing, due to the tight right of way at the corner. The designer makes sure that the handicap ramp is being built within Parish right of way.



2. The boxes are designed to accommodate all of the existing drain lines in the area in order to preserve current drainage patterns at the crossing.

3. Construction of the box on the east required removal and replacement of ½ of Labarre Road and of the rail road crossing arm.

4. Construction requires deep sheeting, due to proximity of tracks, possibly a coffer dam.

5. Full width of Labarre will be milled and overlaid.

(13) Clearview Airline Intersection Improvements, Jefferson, LA

Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.



(14) Southbound Westwood Dr. Rehabilitation, Jefferson, LA

Pivotal personnel were retained by Jefferson parish through Digital Engineering and Imaging, Inc. for the design of Southbound Westwood Drive from the Westbank Expressway to Lapalco Blvd. The project entails rehabilitation of existing Westwood Drive, which includes removal and replacement of existing PCCP roadway, installation of additional subsurface drainage and modification of existing subsurface drainage, and installation of new sidewalks, handicapped ramps, and driveways as needed.

(15) France Rd. North Paving & Drainage Improvements, New Orleans, LA

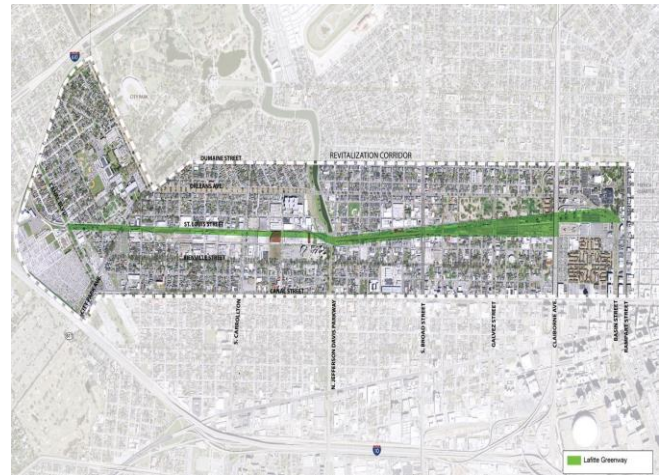
Pivotal performed design & construction administration services for France Rd. The project included 1.5 miles of full roadway reconstruction design. The scope of this project is to remove and replace roadway & drainage improvements.



(16) Lafitte Greenway, New Orleans, LA

Pivotal completed and delivered to the City of New Orleans Lafitte Green way project in teaming arrangements with Design Workshop and Dana Brown & Associates which consists of approximately 13,000 ft. of bike/pedestrian trail valued at \$6.5 million. The project included more than 5 acres of land in storm water management design and green infrastructure containing bioswale, rain gardens and detention basins, sidewalk and roadway improvements, drainage improvements, and lighting improvements.

Pivotal Engineering staff performed a drainage analysis to calculate 10-year discharge from the identified contributing areas, and incorporated the approved scope of work into the project which included Architectural, Civil, Structural, and Electrical Design.



(17) Bayou Road Streetscape, New Orleans, LA

Pivotal completed and delivered to the City of New Orleans Gentilly Boulevard and Bayou Road Streetscape. The project included landscape, sidewalk and roadway improvements, drainage improvements, and lighting improvements.

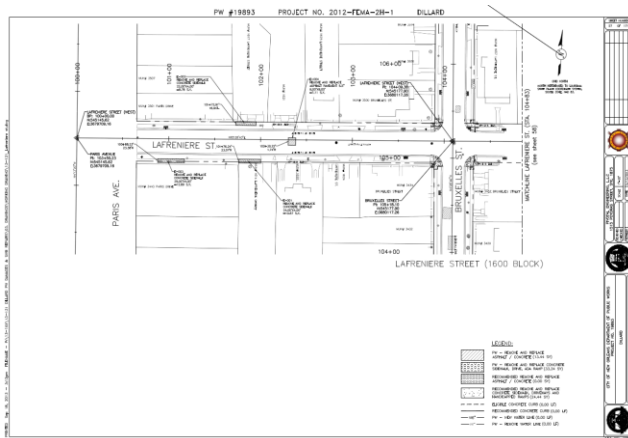


(18) Dillard Neighborhood Streets, New Orleans, LA

Pivotal personnel were retained by the City of New Orleans to provide A/E Design, and Construction Management services for Dillard Neighborhood Design Project.

The project entails the design of proposed roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal

personnel have also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.



Pivotal personnel were responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

Pivotal coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The total project is estimated at 1.5 million dollars.

(19) Napoleon Avenue Box Culvert, New Orleans, LA

Pivotal personnel were retained by the Sewerage & Water Board of New Orleans through Schrenk & Peterson Engineering to coordinate and design the utility relocation plans and specifications.

Pivotal personnel were also responsible for review and approval of required topographical survey of existing site conditions prior to start of design phase.

Pivotal personnel designed new reinforced concrete box culvert along Napoleon Avenue between Constance Street and Carondelet Street in New Orleans, LA, and also designed box culvert crossings at St. Charles Avenue/Napoleon Avenue intersection, which is one of the busiest intersection in the Metropolitan New Orleans area.



Pivotal personnel coordinated all efforts with various private & public utility companies, state & local agencies for the safe and expedient relocation of their existing facilities that conflicted with proposed construction. The project is valued at \$50,000,000.

(20) Morey, Centanni, and Salvadore Street Improvements, Kenner, LA

Pivotal personnel were retained by the City of Kenner Department of Public Works to perform the design and construction supervision for the required improvements of the above captioned street. The project entailed the design of proposed roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal personnel also provided public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

Pivotal personnel were responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

The design included a new drainage collection system that will tie into an existing drainage system along an adjacent intersection. This was necessary due to the re-occurrence of street flooding during rain activities in this area.

Pivotal personnel coordinated all efforts with various private & public utility companies, state

& local agencies, as well as civic & community organizations, and responsible for construction management of the overall construction of the above captioned work. The project is valued at \$1,200,000.

(21) Lower 9th Ward, Phase 1 Street and Sub Surface Design Improvements, New Orleans, LA

Pivotal personnel were retained by the City of New Orleans to provide A/E Design, and Construction Management services for the Lower 9th Ward, Phase 1 Street and Sub Surface Design Improvements Project.

The project entails roadway rehabs to 32 blocks in the Lower 9th Ward of New Orleans. Pivotal personnel were responsible for the rehabilitation design of multiple streets to meet the required rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB.

The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal personnel were responsible for administering the required topographical survey of existing site conditions prior to start of design phase and coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. The project was valued at \$4 million.

(22) Study of Safety Measures for Major East Bank Roadways, Jefferson Parish, LA

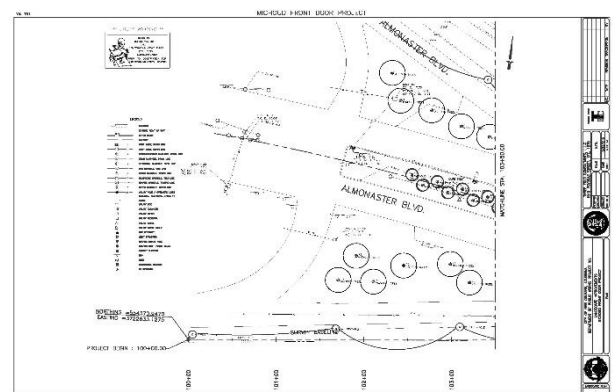
Pivotal Engineering was retained by Jefferson Parish to perform the Study of Safety Measures for Major East Bank Roadways Adjacent to Open Canals. The project entailed a detailed site investigation and documentation of each open canal section bank top width on plans with supporting photographs. Plans also show the recommended improvements as well as the location of accidents for all four segments. Drainage for analysis of the required open canal and box culvert section to accommodate a 10-year

design storm were performed. In addition, as a safety measure, the existing median side edge line striping was suggested to be removed and raised pavement markers be installed for all segments where new guard rails are recommended.



(23) Michoud Front Door Improvements, New Orleans, LA

Pivotal completed and delivered to the City of New Orleans Michoud Front Door Improvements in teaming arrangements with Stuart Consulting Group. The project included landscape, sidewalk, roadway, drainage and lighting improvements.



Experience with Street Lighting Projects

(1) Cousins Blvd Street Lighting Improvement, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Cousins Blvd. Lighting Improvement (Oakmere Dr. to Woodmere Blvd.). The major scope of the improvement is installation of new street lighting system. These facilities are increasingly becoming hard to maintain and are also energy in-efficient. The proposed project intends to replace these traditional fixtures with energy efficient LED lighting. With the energy efficiency measures proposed, it is expected to reduce the energy use in the range of 25-75% and extend the life of the light fixtures anywhere between 3-25 times their traditional counterparts. The general design requirement of work for this improvement includes but is not limited to the following:

- a.Length of project is approximately 2600 ft (0.5 Mile) on Parish owned roadway
- b.Recommended pole spacing 140-150 ft
- c.Recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Single Mast type installed on the south side of the roadway (canal side) , with 20-24” base
- d.Recommended LED lighting - ATB2 40BLEDE10 XXXXX R3 4K P7 PCLL in 4K color Temperature
- e.Recommended 2 feed points (240 volt)
- f. Underground junction box (handholds) is not required. Instead dual fuse holders shall be used.
- g.Recommended Helical street light foundation
- h.Wiring in directional bore conduit

(2) Jamie Blvd. & W. Tish Dr. Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Jamie Blvd. and W. Tish Dr. Lighting Improvement (US 90 to Cambay Dr.).

The major scope of the improvement is installation of new street lighting and retrofit existing street light system. These facilities are increasingly becoming hard to maintain and are also energy in-efficient. The proposed project intends to replace these traditional fixtures with energy efficient LED lighting. With the energy efficiency measures proposed, it is expected to reduce the energy use in the range of 25-75% and extend the life of the light fixtures anywhere between 3-25 times their traditional counterparts. The general design requirement of work for this improvement includes but is not limited to the following:

- a.The following two roadways are included in scope
Jamie Blvd. (US 90 to Cambay Dr.)
W. Tish Dr. (US 90 to Cambay Dr.)
- b.Length of project is approximately 2000 ft (0.4 Mile) each roadway on Parish owned roadway
- c.Recommended pole spacing 140-150 ft
- d.Jamie Blvd. recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Double Mast type installed on the median, with 20-24” base (Typ. 3 each)
- e.W. Tish Blvd. recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Single Mast type installed on the side of the road, with 20-24” base (Typ. 3 each)
- f. Both Jamie and W. Tish include retrofit existing street lighting by removing and replacing fixtures (Typ. 14 each).
- g.Recommended LED lighting fixture - ATB2 40BLEDE10 XXXXX R3 4K P7 PCLL in 4K color Temperature
- h.Recommended 1 feed points (120 – 240 volt) for each roadway
- i. Recommended Helical street light foundation
- j. Wiring in a directional bore conduit

(3) Metairie Road Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Metairie Rd. Street Lighting Improvement (Bonnable Blvd. to Orpheum Ave).

The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 8,500 ft (1.6 Mile) on parish owned back of curb to property line right of way.
- b. Removal of existing metal pole street lights.
- c. Recommended pole spacing 150 to 160 ft
- d. Recommended Dunwoody Aluminum Pole, mounting height 14ft/16ft with 20" base
- e. Recommended 100W LED lighting
- f. Recommended feed points (120 – 240 volt)
- g. Recommended Helical street light foundation
- h. Wiring (directional bore conduit), Fixtures, and miscellaneous construction
- i. Requires Arborist service, tree protection, root pruning and trenching as necessary

(4) West Metairie Road Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the W. Metairie Ave. U-Turns Street Lighting Improvement (Roosevelt Blvd. to David Dr.). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- j. The following four W. Metairie Ave. intersections and U-turns are included in the scope.
 - Intersection of W. Metairie Ave. and David Drive
 - Intersection of W. Metairie Ave. and Lynnette Drive
 - Intersection of W. Metairie Ave. and N. Bengal Road
 - U turn on W. Metairie Ave. between N. Lester Ave and N. Howard Ave
- k. Recommended pole spacing 150 to 160 ft
- l. Recommended Dunwoody Aluminum Pole, mounting height 14ft/16ft with 20" base
- m. Recommended 100W LED lighting

- n. Recommended 1 feed points (120 – 240 volt) for each intersection
- o. Recommended Helical street light foundation
- p. Wiring (directional bore conduit), Fixtures, and miscellaneous construction.
- q. Median concrete removal, hydro seed grass, and new sidewalk, new ADA ramp

(5) Causeway Boulevard Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Causeway Boulevard (Veterans Overpass to 6th Street) Street Lighting Improvement. The major scope of the improvement is removal and replacement of existing lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 4,800 ft (0.9 Mile) on parish owned roadway.
- b. Remove and replace existing street lights (see attached map for approx. locations)
- c. Recommended pole spacing 150 to 160 ft
- d. Recommended mounting height max. 40ft (recommended pole height 35 ft)
- e. Recommended LED lighting
- f. Recommended 3 to 4 feed points (120 – 240 volt)
- g. Recommended Helical street light foundation
- h. Wiring (directional bore conduit), E-boxes, Fixtures, and miscellaneous construction

(6) Green Acres Rd. Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Green Acres Rd. Street Lighting Improvement (W. Metairie Ave. to

Airline Dr.). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 2,700 ft (0.51 Mile) on parish owned roadway.
- b. Recommended pole spacing 150 to 160 ft
- c. Recommended mounting height 16ft
- d. Recommended LED lighting
- e. Recommended 2 feed points (120 – 240 volt)
- f. Recommended Helical street light foundation
- g. Wiring (directional bore conduit), E-boxes, Fixtures, and miscellaneous construction

(7) Live Oak Street Solar Lighting Improvements, Jefferson Parish, LA

Pivotal will provide preliminary and final design phase services for design and construction plan preparation of the Live Oak Street Lighting Project (US 90 to S. Kenner Rd). The major scope of the improvement is installation of new solar street lighting system. As per the evaluation phase report, the following general design requirements are established:

- a. Length of project is approximately 18,500 ft (3.5 Mile) on Parish owned roadway
- b. Design based on product of Cypress Lighting Technologies, LLC
- c. Pole spacing staggered at 200ft
- d. Pole shall be installed at minimum 6 feet from the edge of travel lane
- e. Single 8 feet long arm shall be used
- f. Fixture mounting height shall be minimum 25 feet
- g. Fixtures shall be all-in-one solar LED Street light (100W) with a minimum 12V 42Ah Lithium battery
- h. Fixture shall be programmable to operate at 30% (30W) when traveling vehicle is not-detected and 80% (80W) when traveling vehicle is detected

Fixture, solar panel and battery shall be warranted for 5 years.

Section 4 Understanding of Project/Familiarity

Our Approach:

As community members and neighbors to St. John the Baptist Parish (SJB), Pivotal Engineering stands prepared to restore this critical, regional community in the most compassionate and technically-sound manner.

Pivotal Engineering, LLC acknowledges that effective data management, quality damage assessments and thorough completion of FEMA project worksheets are vital to the overall success of this project.

For efficient execution of this project, Pivotal Engineering is proposing to execute the following components:

1. **Establish the damage assessment workplan by region and asset type.** Pivotal will divide the parish into designated geographic regions and sub-regions. This will allow us to maintain a comprehensively “bird’s eye view” of the project status and efficiently manage daily assessment efforts across the parish.
2. **Establish and maintain a cloud-based database file.** The data cloud methodology is a popular mechanism for data sharing and will allow SJB personnel to observe the daily activities.
3. **Generation of GIS maps.** The GIS maps will provide updated information regarding extents of activities required, performed and completed. These maps will allow decision-makers to plan ahead and to best coordinate with both contractors and community leaders. The GIS datafiles will contain all pertinent information (e.g., latitude/longitude coordinates, asset ID, asset address) and will enhance existing SJB datasets.

Dedicated Managers:

Pivotal Engineering has allocated a total of two (2) staff as primary and secondary managers for the full scope of the project (Yoseph Shifare, PE, PTOE as primary and Bryan B. Smith, PE as secondary). Throughout the project, both managers will be available to the identified SJB team leaders. Both the data collection and assessment teams will be led by senior-level staff. Additional technical support staff will be available for assistance throughout the lifespan of the project. These the senior staff will ensure comprehensive data collection, communication and conflict resolution. Staff will ensure that detailed data collection methodologies

are adhered and that properly trained crews and staff are onboard and accounted for.

Geographic Information Systems (GIS):

Pivotal Engineering has staff in-house who are available to produce daily output of GIS datasets. These maps will prove to be invaluable when discussing the daily workplan, assessing existing conditions and establishing the timeframe to completion. The GIS map will be available as PDF, PNG and/or ESRI Shapefile file formats.

Organizational Chart:

Our integrated team (see organization chart in Section 2) will provide an optimized concurrent environment that provides an opportunity to substantially reduce logistics and contractor cost. Benefits of our integrated team (with members of various skilled disciplines) enable a simultaneous contribution to an efficient workflow and decrease project cost.

Our management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable team members with exceptional technical skills, and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully, on time, and within budget and schedule. Our team is committed to defining the key metrics and setting expectations as our first step toward making this program a success. We as a team will apply various techniques for program execution and performance including:

- Developing data collection devices, such as forms and surveys
- Establishing baseline of contractor base, include contact information and geographic area of operation
- Developing and maintain data tools
- Keeping track of staff activities and costs
- Establishing a communication plan, including emergency contact information for all contractors, SJB staff and Pivotal staff
- Effective time management and scheduling

Approach and Resources for Successful Project Completion

Pivotal Engineering is well equipped to deliver effective and valuable project management services that satisfy all components planning, management, community engagement and environmental awareness. To achieve the expected outcomes, Pivotal Engineering focuses on the key aspects: logistics, administration, scope, budget, timeframe, technicality, social responsibility, and environmental awareness. These aspects are summarized below:

Approach to Agency Coordination:

Pivotal Engineering (Pivotal) will identify responsible agencies as early as practical. Pivotal will notify St. John the Baptist Parish and address any issues of concern regarding the project's scope, potential infrastructure, environmental, social, or economic impacts that could substantially delay any aspect of project administration. The team will assure that stakeholder agencies are fully engaged in the scoping of the project and the decisions regarding alternatives to be evaluated in detail in the technical approach. Management excellence will be achieved through full collaboration with all stakeholders, including utilities, resource agencies (FEMA, State of Louisiana, etc), local jurisdictions, communities, property owners and elected officials. We will keep the stakeholders informed through regular updates and face-to-face meetings to ensure their concerns are addressed. By setting expectations for all parties early in the program and resolving issues quickly, our approach will reflect the needs of the stakeholders.

Pivotal understands an agency's role in the development of the program and may include the following as they relate to areas of expertise:

- a. Provide meaningful and early input to address concerns and impacts.
- b. Identify issues that could substantially delay or prevent progress.
- c. Identify opportunities for collaboration, including participating in coordination meetings and joint field reviews, as appropriate.
- d. Provide timely compliance with review and comment on preliminary documents to reflect the views and concerns of their respective agencies, alternatives considered and anticipated impacts and mitigation.

Capacity to Create and Lead Multi-Disciplinary Team:

Pivotal Engineering's management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable team members with exceptional technical/managerial skills and supporting them with good QA/QC processes. Open lines of communication and weekly (hourly and daily, when needed) internal conference calls will ensure that the program is performing successfully, within budget and schedule.

The Team will prepare and submit all the required documents conforming with the City's format, content, and comments. All the drawings, programs, computer code and electronic files will be delivered in a format compatible with the SJBP GIS and software system requirement and have signature and (if applicable) stamp associated with Louisiana registered Civil Engineer.

Team's Ability to Meet Schedules and Deadlines:

Our team will carefully track and actively manage all schedules to ensure that it supports the critical paths of the program, at each phase. Good judgment will be exercised by including QA/QC, data collection/analysis methodologies and staff coordination. For the benefit of all stakeholders, we will provide a weekly look ahead schedule showing all components and areas of attention.

Advance notification of submissions will be provided to SJBP and others, as required. Regular meetings will be a key element of our approach to project management excellence. Managers will meet on a weekly basis to discuss the details of the components (GIS, dashboard, data forms, etc) and coordinate with other disciplines to advance the program. Progress meetings will include all key staff, critical discipline leaders, stakeholders and third parties as necessary to complete the work. All meetings will include agendas and meeting minutes including issue tracking / resolution, risk tracking / mitigation, stakeholder concerns / resolutions, data log / tracking and six-week look ahead schedules. These meetings will also be used as an opportunity to conduct over-the-shoulder reviews.

Pivotal Engineering has the required technical personnel to assure SJBP that all work will be performed in accordance with the contract scope of work and in strict conformance with the latest codes,

guidelines and standards. The team has the manpower, equipment, and expertise to execute every phase of this program.

Outreach methods used in the past projects:

Pivotal Engineering has worked closely other regional governments and agencies throughout the state of Louisiana to coordinate inputs from government agencies, stakeholders and community groups. The outreach was conducted through agencies collaboration meetings, workshops for stakeholders regarding design and management, and community meetings to disseminate the plan for community feedback. Pivotal Engineering understands that making this process as extensive as possible will help with community restoration and logistics. Pivotal Engineering acknowledges the meaningful role that a community has in project development and overall success and is committed to maintaining symbiotic relationships with communities throughout the year and beyond.

Experience with the challenges associated with delivering sustainable, regenerative, and resilient solutions in the Greater New Orleans / River Parishes areas

Pivotal Engineering has a standing record of delivering site-specific project solutions with adherence to unique conditions. Projects such as the Hurricane Laura Disaster Recovery Management project (August through December 2020) showcase the desire of Pivotal to bring solutions that are both technically feasible and efficient for data sharing. Pivotal is committed to mixing classical project management techniques, current best management practices and project-specific innovative concepts to manage the resources, contractors, funding-agencies associated with disaster recovery. Each phase will progress with considerations of both the bigger picture and the nuances unique to the program. Additionally, the program will incorporate concepts that will maximize the contractor base support and minimize redundant requirements thus allowing for both regenerative and resilient qualities to endure over time.

The River Parish Region is a wonderfully unique and diverse region. Not many places on the earth have this blend of conditions of topography, soil, rainfall, native vegetation and wildlife. For SJBP, special attention much be given to the approaches and guiding values of the solutions. Pivotal has completed many projects, within St. John the Baptist Parish, that have allowed adequate time for thorough and extensive investigation of the regional conditions.

Pivotal is committed to pushing the agenda of comprehensive damage assessment and associated tasks through technical and social consideration for local conditions, community engagement and effective information dissemination. Pivotal understands that solutions should build upon existing knowledge and industry standards not yet adopted in the parish as well as innovative ideas and approaches. The future is bright for St. John the Baptist Parish and Pivotal desires to remain a “pivotal” component to the development of our future infrastructure.

Quality Control & Quality Assurance Plan:

As outlined in this Statement of Qualifications, Pivotal Engineering not only presents the number of professional and support personnel available to perform these types of engineering tasks, but also demonstrates the breadth and diversity of the capabilities of the staff. Beyond this diversity of capabilities, the key personnel staff has combined experience of greater than 500 years of experience in all phases of project delivery.

Pivotal Engineering will provide a direct line of communication internally and to anyone who is a representative of St. John the Baptist Parish to the assigned project principal and managers. The team will provide cell phone lines as the primary mechanism of communication, followed by e-mail transmissions and office phone lines. Pivotal Engineering will not let calls or e-mails go unanswered more than 24-hours. Pivotal has had huge success as it relates to our client's reliance on us as their consultant of choice.

Our management team is comprised of experienced managers and task leaders with proven leadership who can thoughtfully bring together capable team members with exceptional technical skills, and support them with good QA/QC processes. Open lines of communication and weekly (daily as needed) internal conference calls will ensure that the program is managed successfully within budget and schedule.

Pivotal maintains a comprehensive program to ensure that our work bring the most value to our clients and are of high quality. Each initiative has a comprehensive QA/QC plan to make sure our procedures and documentation conform to both our corporate policies and our client's requirements. QA/QC is much more than providing reviews and checking computations. Quality is a mindset that is shared by every member of the Pivotal team. It starts by clearly understanding expectations and making a commitment to meet them every day and with every deliverable. Each project review also includes some elements of internal value engineering. Our senior staff focuses not only on accuracy and completeness, but on value, optimization, simplicity, operations, maintenance, power cost, and feasibility.

Our principals and staff have gained this experience not only through many years of providing services to this variety of clients on a very diverse portfolio of projects, but also through focused continuing education. Pivotal's principals and staff have all been given accolades on their technical competence and

knowledge of administering the contract plans and specifications per agency policy and procedure.

Pivotal believes that quality products and services result from having sound business practices, retaining talented staff, and focusing on being responsive to our client's needs. Our clients respect us for our philosophy of "doing the right things for the right reasons."

Quality is integrated into Pivotal's day-to-day business activities through our Quality Management System (QMS). The programs, policies, and business processes that comprise the QMS have four key elements:

- a. Focus – Management actively promotes quality in our business activities and defines responsibilities for maintaining a quality focus.
- b. Service – Staff members are trained, available, and committed to providing quality services.
- c. Delivery – Processes and procedures are in place that promotes quality in the delivery of our products and services.
- d. Improvement – Continual improvement is achieved through performance measurement and identification of areas for improvement.

Pivotal's senior management demonstrates its commitment to quality through establishing responsibilities for quality at all levels of the company, from company principals to members of management to each team. Responsibilities are documented in Pivotal's QA/QC Program procedures. These procedures define how Pivotal delivers products and services to our clients.

Section 5 Agency Coordination Project Experience

Past Performance with Public Agencies

Pivotal Engineering is currently providing engineering and management services to many municipalities and state agencies in the region including State of Louisiana, City of New Orleans, Jefferson Parish, City of Shreveport, City of Kenner and St. Charles Parish. In testimony to our performance history, we offer the following specific references:

- I. Nguyen Phan, P.E., Chief Engineer City of New Orleans DPW. (504) 658-8000
- II. Khalid L. Saleh, Ph.D, Senior Design Engineer, City Of New Orleans DPW, (504) 658-8208
- III. Neil Schneider, CCM, P.E. Director of Capital Projects, Jefferson Parish Department of Capital Projects (504) 736-6833
- IV. Mike Lockwood, Director of Sewerage, Jefferson Parish Department of Sewer (504) 736-6661
- V. Mitchell Theriot, P.E. Director of Drainage, Jefferson Parish Department of Drainage (504) 736-6753
- VI. Mark Drewes, PE; Director of Public Works, Jefferson parish, Department of Public Works, (504) 736-6783
- VII. Angela DeSoto, PE; Director of Engineering; Jefferson Parish, Department of Engineering, (504) 736-6500
- VIII. Myra Alexis-Valentine, Grants Administer, St. John the Baptist Parish, (985) 652-9569

Architectural and Engineering Services are also provided to private clients such as Entergy, Waste Management, and private developers.

Pivotal Engineering has in depth understanding of local, state, and federal governmental agencies

procedures and regulations. As described above on Section 5, Pivotal's past performance more than satisfies the required criteria.

Approach and Resources for Successful Project Completion

Pivotal Engineering is well equipped to deliver projects that satisfy all components of design, construction, community engagement and environmental awareness. To achieve the expected outcomes, Pivotal Engineering focuses on the key aspects: logistics, administration, scope, budget, timeframe, technicality, social responsibility, and environmental awareness. These aspects are summarized below:

Approach to Agency Coordination:

The Team will identify responsible agencies as early as practical. The Team will notify St. John the Baptist Parish and address technically any issues of concern regarding the project's scope, potential infrastructure, environmental, social, or economic impacts that could substantially delay or prevent an agency from granting a permit or other approval that is needed for the project. The team will assure that stakeholder agencies are fully engaged in the scoping of the project and the decisions regarding alternatives to be evaluated in detail in the design.

The Team understands an agency's role in the development of the project and may include the following as they relate to areas of expertise:

- a. Provide meaningful and early input to address concerns and impacts.
- b. Identify issues that could substantially delay or prevent granting of permits/approvals.
- c. Identify opportunities for collaboration, including participating in coordination meetings and joint field reviews, as appropriate.
- d. Provide timely compliance with review and comment on preliminary documents to reflect the views and concerns of their

respective agencies, alternatives considered and anticipated impacts and mitigation.

Capacity to Create and Lead Multi-Disciplinary Team:

Pivotal Engineering's management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable Team members with exceptional technical skills and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully, within budget and schedule. Our team has the ability to assist in St. John the Baptist Parish throughout the damage assessment and FEMA reimbursement process.

Personnel assigned to this project have an extensive experience in damage assessment as well as FEMA processing, data management, engineering analysis and project management. Extensive design experience and a full range of technical and engineering capabilities reinforce the team to successfully complete any related projects as needed by St. John the Baptist Parish. Pivotal has the capability to be in charge of all phases of the referenced project from cradle to grave.

The team will prepare and submit all the required documents conforming with the Parish's format, content, and comments. All the drawings and electronic files will be delivered in a format compatible with the City's GIS and software system requirement and have signature and stamp associated with Louisiana registered Civil Engineer.

Furthermore, the Team has a comprehensive knowledge in drainage asset cleaning, CCTV, sewer and storm-water pipes repair and rehabilitation, water-flow design, and survey. Any modifications, improvements, renewal and repair of the infrastructures can be fulfilled by Pivotal with great precision.

Team's Ability to Meet Schedules and Deadlines:

The Team has the required technical personnel to assure St. John the Baptist Parish that all work will be performed in accordance to the contract scope of work and in strict conformance with the latest codes, guidelines and standards. The Team has the manpower, equipment, and expertise to execute any given project within a reasonable time frame. The Team is comprised of Companies that have a reputation of project delivery both on time and within budget.

Outreach Methods used in the past projects:

Pivotal Engineering has worked closely with St. John the Baptist Parish and other agencies throughout the state of Louisiana coordinating inputs from government agencies, stakeholders and community groups. The outreach was conducted through agencies collaboration meetings, workshops for stakeholders regarding design and management, and community meetings to disseminate the plan for community feedback. The Team understands making this process as extensive as possible will help with community buy-in for green infrastructure implementation and make the implementation of regulations for the betterment of the environment. Pivotal Engineering acknowledges the meaningful role that a community has in project development and overall success and is committed to maintaining symbiotic relationships with communities throughout project life and beyond.

Quality Control & Quality Assurance Plan:

As outlined in this Statement of Qualifications, the Team not only presents the number of professional and support personnel available to perform these types of engineering tasks, but also demonstrates the breadth and diversity of the capabilities of the staff. Beyond this diversity of capabilities, the Team's key personnel staff has combined experience of greater than 500 years of experience in all phases of project delivery, including Survey, Architectural, Civil, Geotechnical, Mechanical, Electrical, Structural, Environmental Engineering, Construction Management, Construction Inspection and

Program/Project Management. These professional qualifications include city, state, and federal certifications in safety, management, and a list of other certifications.

The integrated Team will provide a direct line of communication internally and to anyone who is a representative of St. John the Baptist Parish to the assigned Project Principal and Manager. The integrated Team will provide cell lines as the first line of communication, followed by e-mail transmissions and office lines as last resorts. The Team will not let calls or e-mails go unanswered more than 24-hours. Pivotal has had huge success as it relates to our client's reliance on us as their consultant of choice.

Our management Team is comprised of experienced managers and task leaders with proven leadership who can thoughtfully bring together capable Team members with exceptional technical skills, and support them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully within budget and schedule.

Pivotal maintains a comprehensive program to ensure that our projects bring the most value to our clients and are of high quality. Each Pivotal project has a comprehensive QA/QC plan to make sure our procedures and documentation conforms to our corporate policies and our client's requirements. QA/QC is much more than providing reviews and checking computations. Quality is a mindset that is shared by every member of the Pivotal Team. It starts by clearly understanding expectations and making a commitment to meet them every day and with every deliverable. Each project review also includes some elements of internal value engineering. Our senior staff focuses not only on accuracy and completeness, but on value, optimization, simplicity, operations, maintenance, power cost, and constructability.

Our principals and staff have gained this experience not only through many years of providing services to this variety of clients on a very diverse portfolio of projects, but also through focused continuing education. Pivotal

Engineering's principals and staff have all been given accolades on their technical competence and knowledge of administering the contract plans and specifications per agency policy and procedure.

Pivotal believes that quality products and services result from having sound business practices, retaining talented staff, and focusing on being responsive to our client's needs. Our clients respect us for our philosophy of "doing the right things for the right reasons."

Quality is integrated into Pivotal's day-to-day business activities through our Quality Management System (QMS). The programs, policies, and business processes that comprise the QMS have four key elements:

- a. Focus - Management actively promotes quality in our business activities and defines responsibilities for maintaining a quality focus.
- b. Service - Staff members are trained, available, and committed to providing quality services.
- c. Delivery - Processes and procedures are in place that promotes quality in the delivery of our products and services.
- d. Improvement - Continual improvement is achieved through performance measurement and identification of areas for improvement.

Pivotal's senior management demonstrates its commitment to quality through establishing responsibilities for quality at all levels of the company, from company principals to members of management to the project team. Responsibilities are documented in Pivotal's QA/QC Program procedures. These procedures define how Pivotal delivers products and services to our clients.

Experience in creating and working with multi-disciplinary project delivery team:

Pivotal Engineering's management Team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable Team members with exceptional technical skills, and supporting them with good QA/QC processes. Open lines of

communication and weekly internal conference calls will ensure that the project is managed successfully, within budget and schedule.

The Pivotal's approach to the assigned project includes integrated and comprehensive engineering services that include facility inventories, development of design criteria, assessment of major engineering components, preparation of specifications, and plans and associated construction cost.

Approach to Coordinating Project Delivery Tasks:

The Team will use an Integrated Project Delivery (IPD) approach that integrates staff, systems, team company's structures, and professional practices into a process that collaboratively harnesses the talents and insights of all participants to optimize project results, increase value to the owner and the community, reduces waste, and maximize efficiency through all phases of design, bid, and construction.

The Integrated Project Delivery is assembling a team that is committed to collaborative processes and is capable of working together effectively. In order to accomplish this, the Principal Project Manager will:

- a. Identify the Team's roles that are most important to the project.
- b. Consider interests and seek involvement of select additional parties, such as agency official(s), local utility companies, and other stakeholders.
- c. Define (in a mutually understandable fashion) the values, goals, interests and objectives of the project to the larger program goals.
- e. Identify the Team's organizational and business structure best suited to IPD that is consistent with the Team's capacity and constraints. The choice should not be rigidly bound to traditional project delivery methods but should be flexibly adapted to the project.
- f. Develop project agreement(s) to define the roles and accountability of the Team members. The project agreements should be synchronized

to assure that company's roles and responsibilities are defined identically in all agreements and are consistent with the agreed Team organizational and business models. Key provisions regarding compensation, obligation, and risk allocation will be clearly defined and should encourage open communication and collaboration.

Section 6 Team's Current Workload

The Team has the needed technical, administrative and managerial personnel to assure St. John the Baptist Parish Sheriff's Office that all work will be performed in accordance to the contract scope of work and in strict conformance with the latest Codes, guidelines and standards. The Team has the manpower, equipment, and expertise to execute any given project within a reasonable time frame. Pivotal Engineering is comprised of engineers, managers, designers, data analysts, inspectors and administrators with a collective reputation of project delivery both on time and within budget.

Our current workload will allow for quick assignment of technical resources to the project at hand. In addition, the team has the required management and field personnel readily available to begin the necessary services upon written notification. Further, the integrated team will provide a direct line of communication internally and to anyone who is a representative of St. John the Baptist Parish Sheriff's Office to the assigned Pivotal project principal and managers. The integrated team will provide cell lines as the first line of communication, followed by e-mail transmissions and office lines as last resorts. The team will not let calls or e-mails go unanswered more than 24-hours and with this have seen huge success as it relates to our client's reliance on us as their consultant of choice.

As this is a critical project for SJBP, Pivotal Engineering stands ready to lift the heavy load and perform the full scope of services with the highest level of priority.

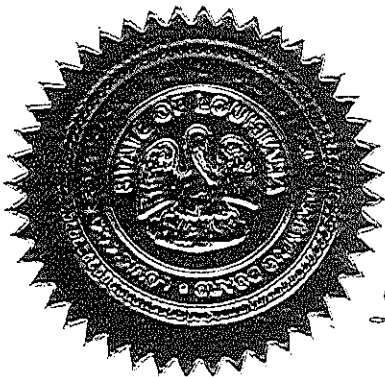
Louisiana Professional Engineering and Land Surveying Board

Hereby Certifies that

Pivotal Engineering LLC

*has complied with the regulation of this Board and is authorized
to provide or to offer to provide engineering services in the State of
Louisiana contingent upon payment of the annual renewal fee.*

Baton Rouge, Louisiana · 12/20/2012



License Number 5213

Michael J. Davis

Jane E. Bawie *Chairman*

Secretary

Attachment 1

Past Criminal Convictions of Bidders Attestation

**PAST CRIMINAL CONVICTIONS OF BIDDERS ATTESTATION (LA. R.S.
38:2227)**

STATE OF LOUISIANA

PARISH OF Orleans

BEFORE ME, the undersigned Notary Public PERSONALLY CAME AND APPEARED,

I, Avinash Mehta, PE, (Appeared) the owner/authorized representative of

Pivotal Engineering, LLC
Submitter/ Individual / Legal Entity Name

Appeared, as a Bidder on the herein named Project, does hereby attest that:

A. No sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named herein, including any silent or dormant owner or manager, has been convicted of, or has entered a plea of guilty or nolo contendere to, any of the following state crimes or equivalent federal crimes:

- | | |
|---------------------------------------|------------------------------------|
| (a) Public bribery (R.S. 14:118) | (c) Extortion (R.S. 14:66) |
| (b) Corrupt influencing (R.S. 14:120) | (d) Money laundering (R.S. 14:230) |

B. For five years prior to the project bid date, no sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named herein, including any silent or dormant owner or manager, has been convicted of, or has entered a plea of guilty or nolo contendere to any of the following state crimes or equivalent federal crimes, during the solicitation or execution of a contract or bid awarded pursuant to the provisions of Chapter 10 of Title 38 of the Louisiana Revised Statutes:


- | | |
|--|---|
| (a) Theft (R.S. 14:67) | (f) Bank fraud (R.S. 14:71.1) |
| (b) Identity Theft (R.S. 14:67.16) | (g) Forgery (R.S. 14:72) |
| (c) Theft of business record (R.S. 14:67.20) | (h) Issuing worthless checks (R.S. 14:71) |
| (d) False accounting (R.S. 14:70) | (i) Malfeasance in office (R.S. 14:134) |
| (e) Submitter's misapplication of payments (R.S. 14:202) | |

Pivotal Engineering, LLC
Name of Bidder
EMERGENCY REQUEST FOR QUALIFICATIONS (RFQ)
Hurricane Ida Disaster Recovery Damage Assessment and A/E
Services RFQ 2021.1
Project Name/Number


Signature of Authorized Signatory of Bidder
Principal In Charge
Title of Authorized Signatory

SUBSCRIBED AND SWORN BEFORE ME ON THIS 24th DAY

OF September, 2021.


Notary Signature

Printed Notary

Name: Gary A. Cotogno

Notary/Bar Roll Number: 04432

My Commission is For/Expires: at death

Attachment 2

Non Solicitation & Unemployment Affidavit

**ST. JOHN THE BAPTIST PARISH
NON-SOLICITATION AND UNEMPLOYMENT
AFFIDAVIT**

(Pursuant to La. R.S. 38:2224 and La. R.S. 23:1726(B))

STATE OF Louisiana

PARISH/COUNTY OF Orleans

Before me, the undersigned authority, came and appeared,

I, Avinash Mehta, PE, the owner/authorized representative of


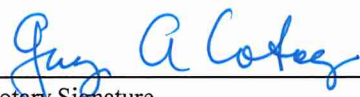
Pivotal Engineering, LLC

Company/Individual/Legal Entity Name

who, being first duly sworn, deposed and state that I personally and as an authorized representative of the above identified legal person executes this continuing affidavit stating that neither the above named Submitter nor a person acting on its behalf, either directly or indirectly, employed, paid, nor promised any gift, consideration or commission to any person or legal entity to procure or assist in procuring this public contract, other than persons regularly employed by Submitter whose services were in the regular course of their duties for Submitter in connection with the construction, alteration or demolition of a public building or project.

The above-named Submitter, if awarded, continually affirms that no part of the contract price received by Submitter was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the affiant whose services were in the regular course of their duties for Submitter.

The above-named Submitter hereby attests and certifies that it does not have any unpaid assessment or penalty levied against it regarding unemployment compensation and currently does and will continue to properly classify each employee.

<div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div>Signature of Authorized Signatory</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Avinash Mehta</div> <div>Printed Name of Signatory</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div>Principal In Charge</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div>Title of Authorized Signatory</div> <div><small>EMERGENCY REQUEST FOR QUALIFICATIONS (RFQ) Hurricane Ida Disaster Recovery Damage Assessment and A/E Services RFQ 2021.1</small></div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div>Project Name/Number</div>	<div>SUBSCRIBED AND SWORN BEFORE ME ON THIS</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">24 DAY OF September 2021.</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;"></div> <div>Notary Signature</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">Gary A. Cotogno</div> <div>Printed Notary Name:</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">04432</div> <div>Notary Bar Roll Number</div> <div style="border-bottom: 1px solid black; margin-bottom: 5px;">at death</div> <div>My Commission is for/expires on:</div>
---	--

Submitter verifies that Submitter will collect an affidavit in this form from any approved sub-contractor and forward a copy to: Saint John the Baptist Parish, 1811 West Airline Hwy, LaPlace, Louisiana 70068, no later than five business days after contracting with its sub-contractor; however, in no instance shall the affidavit be received after commencement of work by the sub-contractor.

Attachment 3
Certificate of Authority



Certification Regarding
Debarment, Suspension, and Other Responsibility
Matters Primary Covered Transactions

CERTIFICATE OF AUTHORITY

(For LLC's Only)

I attest that I am the sole member and manager of Pivotal Engineering, LLC and
Proposer Name

that in my capacity as manager, I Avinash Mehta, PE am authorized
Authorized Representative

under the state of Louisiana to conduct all negotiations, bidding, concerns and transactions with **St. John the Baptist Parish Council** or any of its agencies, departments, employees or agents, including but not limited to the execution of all bids, proposals, papers, documents, affidavits, bonds, sureties, contracts, purchase orders, and notices issued pursuant to the provision of any such bid or contracts for said company.



Domicile Address:

1515 Poydras Street,

Suite 1875,

New Orleans, LA 70112

Phone No: (504)799-3653

 _____ Signature of Authorized Signatory <u>Avinash Mehta, PE</u> _____ Printed Name of Signatory <u>Principal In Charge</u> _____ Title of Authorized Signatory _____	SUBSCRIBED AND SWORN BEFORE ME ON THIS <u>24th</u> DAY OF <u>September</u> <u>2020</u> .  _____ Notary Signature Printed Notary Name: <u>Gary A. Cotugno</u> Notary/Bar Roll Number: <u>04432</u> My Commission is for/expires on: _____ at death
--	--

Attachment 4

Certification Regarding Debarment, Suspension, and other Responsibility Matters



**Certification Regarding
Debarment, Suspension, and Other Responsibility Matters
Primary Covered Transactions**

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 13 CFR Part 145. The regulations were published as Part VII of the May 26, 1988 *Federal Register* (pages 19160-19211). Copies of the regulations are available from local offices of the U. S. Small Business Administration.

- (1) The prospective primary participant certifies to the best of its knowledge and belief that it and its principals:
 - (a) Are not presently debarred, suspended, proposed for disbarment, declared ineligible, or Voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this application had one or more public transactions (Federal, State, or local) Terminated for cause of default.
- (2) Where the Prospective primary participant is unable to certify to any of the statements in this Certification, such prospective primary participant shall attach an explanation to this submittal

Business Name: - Pivotal Engineering, LLC

Date 9/24/2021

By Avinash Mehta, PE Principal In Charge

Name and Title of Authorized Representative

Signature of Authorized Representative

Attachment 5
E-Verify Affidavit

E-VERIFY AFFIDAVIT

STATE OF LOUISIANA

PARISH OF Orleans

BEFORE ME, the undersigned Notary Public PERSONALLY CAME AND APPEARED,

I, Avinash Mehta, PE, the owner/authorized representative of

Pivotal Engineering, LLC

Company/Individual/Legal
Entity Name

who hereby personally and as the authorized representative of the above identified legal person executes this affidavit, as the undersigned Company verification of its current and future compliance with L.S.A. R.S. 38:2212.10, stating affirmatively that it and each individual, firm or corporation associated with it and engaged in the physical performance of services in the State of Louisiana, under a contract with St. John the Baptist Parish Sheriff Office has registered with, is participating in, and shall continue to participate in a federal work authorization program designated as such under the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, as amended, which is operated by the United States Department of Homeland Security, known as the "E-Verify" program. The Company hereby verifies the legal status of all existing and new employees in the State of Louisiana by attesting herein that each is a citizen of the United States or legal aliens as defined by now effective immigration laws of the United States of America.

Company shall not assign this Contract or any monies due or to become due here under, or subcontract any part of the Work without the prior written consent of St. John the Baptist Parish Sheriff's Office.

Company verifies that the Company will collect an affidavit in this form from any approved subcontractor and forward a copy to: St. John the Baptist Parish Sheriff Office, 1801 West Airline Hwy, LaPlace, Louisiana 70068, no later than five business days of contracting with its subcontractor; however, in no instance shall the affidavit be received after commencement of work by the subcontractor.

A. Mehta
Signature of Authorized Signatory

Avinash Mehta, PE
Printed Name of Signatory

Principal In Charge
Title of Authorized Signatory

08/01/2013
Date E-Verify ID Assigned

698349
E-Verify ID

SUBSCRIBED AND SWORN BEFORE ME ON THIS THE 24th DAY OF September, 2021.

Gary A. Cotozno
Notary Signature

Printed Notary Name: Gary A. Cotozno

Notary/Bar Roll Number: 04432

My Commission is For/Expires: at death

Attachment 6
Sub-Consultant
BFM Corporation, LLC

BFM CORPORATION, LLC

Professional Land & Hydrographic Surveying

OVERVIEW & CAPABILITIES/SERVICES

Established in 1982, **BFM Corporation, LLC, Professional Land & Hydrographic Surveying**, has provided services to public & private concerns throughout Louisiana and the Gulf South. The firm provides surveying services covering all facets of engineering, construction, and forensics; topographic, hydrographic, and high definition laser scanning.

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

Our capabilities include the following and more:

- **Topographic Surveying** (determine relative positions & elevations of natural & man-made features)
- **Drone Surveying** (detailed multi-acre data-capturing surveying)
- **Bathymetric / Hydrographic Surveys** (determine shoreline and depths of bodies of water)
- **Property, Boundary, and Right-of-Way Surveys** (preparation of Legal Descriptions, property, and ROW maps to define project boundaries and for acquisition of property)
- **Maps, Cross-Sections, and Data Sets** (provision of plan drawings, maps, diagrams, and data sets)
- **3D Laser Scanning** (unify raw data & model)
- **Benchmarks** (establishment of permanent, temporary, and construction benchmarks)
- **Construction-Related Surveying** (all types)
- **Builder's Package** (includes Boundary Survey & Construction Benchmark, Form Board Certificate, Top of Slab Certificate, & Final FEMA Elevation Certificate)
- **ALTA Surveys** (American Land Title Association-compliant surveys)

BFM offers **Drone Surveying Services**, featuring a **DJI Matrice 600 Pro drone** outfitted with a Sony A7R3 42 megapixel camera, Pixhawk Triggering System, VMAP PPK system, and an A3 Pro Flight Controller. The unit can fly with payload for 20 minutes and **can capture 50 acres of land in that time (with a flight ceiling of 165 feet, pixel quality is 0.71 CM)**. This system allows BFM to quickly & accurately capture data and facilitates quicker field work to produce highly accurate and precise surveying information. Deliverables feature Clean Point Cloud, 3D Mesh, Orthomosaic, and AutoCAD DWG Topographic.

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

Project work (property, utilities, rights-of-way, etc.) routinely involves extensive records & related research as an element of successful completion, as well as coordination with the client, agency or department. BFM has personnel in place to make sure this is done correctly and expeditiously.

PERSONNEL

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

BFM's **Chad M. Poché, P.E.** has nearly **three decades of experience** to assist in completing projects on time and within budget. He has been a **consulting geotechnical engineer for nearly 30 years in South Louisiana** and has been the geotechnical engineer of record for thousands of projects throughout his career.

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

PROFESSIONAL REPUTATION & REFERENCE

Since 1982, BFM has worked with virtually every municipality in the region. We enjoy a high repeat-business rate with all our municipal & private clients and offer the following specific references for contact:

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

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

Neil Schneider, CCM, P.E., Director, Capital Projects, Jefferson Parish Public Works Department

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

Tom Schreiner, Deputy CAO, City of Kenner Public Works & Capital Projects

(504-468-7515 | tschreiner@kenner.la.us)

Angela DeSoto, P.E., Director, Jefferson Parish Engineering Department

(504-736-6511 | ADeSoto@jeffparish.net)

Sid Trouard, P.E., Program Manager, Jefferson Parish Sewerage Capital Improvement Program

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

Greg Cromer, Mayor, City of Slidell

(985-646-4333 | gcromer@cityofslidell.org)

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

INSURANCE

BFM Corporation, LLC, along with our sister company, Gulf South Engineering and Testing, Inc., are included as named insureds on a single professional liability policy providing coverage limits of \$2,000,000 each claim and aggregate. This policy is issued by the Berkley Insurance Company.

Representative Project Work

Almonaster Avenue Bridge Rehabilitation Project (DOTD H.014530), New Orleans, LA

Hardesty & Hanover (Metairie LA); Babak Naghavi, 504-962-9212; bnaghavi@hardestyhanover.com

The existing Almonaster Avenue Bridge over the Inner Harbor – Navigation Canal (IH-NC) is a movable Strauss-heel trunnion bridge built circa 1920 and is owned and operated by the Board of Commissioners of the Port of New Orleans. The bridge carries two railroad tracks owned by CSX Transportation, Inc., and one vehicular lane in each direction; however, the vehicular lanes are closed. The Board, in conjunction with the Louisiana Department of Transportation and Development (LADOTD) and the City of New Orleans, wishes to modify the bridge and approach roadways. BFM was contracted to provide surveying services for multiple phases of the overall project, including topographic surveying, GPS static control, and survey line. Drone surveying is a key element. (\$46,550 (fee); ongoing)

Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA

AIMS Group, Inc. (Metairie LA); Lowell Pitré, P.E., 504-887-7045; ljp@aimsgroupinc.com

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

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA

Hardesty & Hanover (Metairie LA); Babak Naghavi, 504-962-9212; bnaghavi@hardestyhanover.com

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

DOTD H.971941.1, Severn Avenue Corridor, Metairie, Jefferson Parish, LA

Jefferson Parish Department of Engineering; Mark Drewes, Director, 504-736-6505; JPEngineering@jeffparish.net

BFM provided surveying services to locate potholes (SUE (subsurface utility engineering) potholing) in the corridor, which extended from Veterans Boulevard (north curb line) eastbound to West Esplanade Avenue (westbound south curb line). (\$13,500 (fee); 2017)

Hanson City Task II Force Main, Kenner, LA

Hartman Engineering, Inc. (Kenner LA); Bryan Joseph, 504-466-5667

BFM provided Subsurface Utility Engineering (SUE) surveying services for the project. The SUE process includes non-destructive surface geophysical methods which determine the presence of subsurface utilities and to mark their horizontal position on the ground surface. Vacuum excavation techniques are used to expose & record the precise horizontal and vertical position of the assets. A conflict matrix is also created to evaluate and compare collected utility information with project plans, identify conflicts and propose solutions. (\$33,500 (fee); 2019)

Reno Hills Sewer Force Main Extension Project, St. Tammany Parish, LA

Pinnacle Engineering LLC (Covington LA); Tom Schreiner, P.E., 985-893-0075; tom@pin-eng.com

BFM provided all surveying services as requested by the project engineer. This included right-of-way/property lines and adjacent owner surveys, grid and cross section elevations in all directions, and complete topographic surveying including drainage, utilities, above-ground improvements, location of buildings). Further drainage features, both surface and subsurface, were located within the R/W of all adjacent streets in the project area. Ponds, swales, and ditches were surveyed (cross-sections) as encountered. Flood zone classifications & base flood elevation were also provided. (\$38,500 (fee); 2014)

Coventry Drainage Pump Stations, Jefferson Parish, LA

ECM Consultants, Inc. (Metairie LA); Sunina Shrestha, 504-885-4080; SShrestha@ecmconsultants.com

BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge. (\$89,780 (fee); 2020)

Sena Drive Subsurface Drainage Improvements, Jefferson Parish, LA

Hartman Engineering Inc. (Baton Rouge LA); James Wilson, 225-387-6222

BFM provided topographic surveying services for the Sena Drive Subsurface Drainage Improvements project, which extended along Sena Drive from West Esplanade Avenue (Canal No. 2) to Nero Street. (\$13,364 (fee); 2010)

London Avenue Canal Floodwall & Levee Breaches, New Orleans, LA

URS Corporation (Metairie LA); John Grebar, 504-837-6326

BFM established cross sections at various locations of the London Avenue Canal for floodwall breach repairs. A U.S. Army Corps of Engineers project. BFM also performed hydrographic surveys at various points. (\$62,200 (fee); 2006)

Broadmoor/Freret Transmission Line Replacement, New Orleans, LA

Meyer Engineers Ltd. (Metairie LA); Jitendra Shah, P.E.; 504-885-9892

BFM's scope of services included a Route Topographic Survey for the project area, which included South Claiborne Avenue, Eden Street, and Magnolia Street. A later element included South Claiborne Avenue from the westerly property line of Tulane University to the westerly right-of-way for Jefferson Avenue. (\$75,140 (fee); 2021)

Parish-Wide Safe House Program, Jefferson Parish, LA

Multiple Area Engineering Clients

BFM provided surveying services associated with elevated safe houses at multiple locations throughout Jefferson Parish; this was part of a Parish-wide project to establish safe houses for pumping stations at multiple locations which will allow pump operators to safely remain at their station, ensuring the pumps continue to operate, during a hurricane event. (\$112,490 (fee); 2005 - 2007)

Multiple Post-Katrina FEMA Trailer Site Surveys throughout the Metro Area

Multiple Area Engineering Clients

BFM provided topographic surveying for multiple FEMA trailer sites (Coca-Cola Plant, Perry Street Wharf, UNO-SUNO, etc.) as requested. (2005/2006)

Medical Center Boulevard Lighting, Marrero, Jefferson Parish, LA

Buchart-Horn, Inc. (Baton Rouge LA); Alan Krouse, 225-755-2120; akrouse@bucharthorn.com

BFM executed a Route Topographic Survey for the proposed lighting project; the survey extended from apparent R/W (right-of-way) to apparent R/W along Medical Center Boulevard from Wichers Drive to the West Bank Expressway (approximately 2,200 linear feet), with spot elevations taken at 50 foot intervals. The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$26,410 (fee); 2020)

Water System Transmission Main Connection Project, City of Slidell, St. Tammany Parish, LA

Digital Engineering (Kenner LA); Laney Rivera, P.E., 504-468-6129

BFM provided a Route Topographic Survey for a portion of the Tammany Trace (undeveloped) right-of-way near N. Carnation Street and Camp Villere Road. The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$53,640 (fee); 2018)

Expansion of the Port of New Orleans Cold Storage Facility, Port of New Orleans, LA

N-Y Associates, Inc. (Metairie LA); James E. Simmons, 504-885-0500; jsimmons@n-yassociates.com

BFM provided surveying services for the Cold Storage Facility Expansion Project, located at 3411 Jordan Road, for the Port of New Orleans, Louisiana. The scope of services included a topographic survey; this included establishing three temporary benchmarks (TBMs) and location of improvements & utilities. Spot elevations were taken at 25 foot intervals and at grade breaks within the limits of survey. (\$29,710 (fee); 2020)

Monticello Canal at Airline – Utilities Location, Jefferson Parish, LA

Hartman Engineering, Inc. (Prairieville LA); Jared Monceaux, P.E., 225-313-4617; jmonceaux@harteng.com

BFM provided utility location surveying – with an emphasis on natural gas lines – for the project, which involved the Monticello Canal at Airline Highway. (\$860 (fee); 2017)

Sunset Drainage District Levee, St. Charles Parish, LA

Greenup Industries, LLC (Kenner LA); Rodney Greenup, Jr., 225-283-4843; rodney@greenupind.com

BFM's scope of services included the execution of a Route Topographic Survey of the project area, located in Paradis and Bayou Gauche in St. Charles Parish. In a Route Topographic Survey, the full scope plan & profile includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$76,460 (fee); 2020)



Ralph P. Fontcuberta, Jr., PLS

Executive Vice President; Registered Professional Land Surveyor

Louisiana, Professional Land Surveyor, No. 4329, 1974

Mississippi, Professional Land Surveyor, No. 1633, 1974

2 years, Building Trade Curriculum, Delgado, New Orleans

2 years, Mathematics, University of New Orleans

Years with this Firm: 39 (1982)

Total Years Experience: 54 (1967)

Ralph P. Fontcuberta, Jr., PLS has better than half a century of experience in the field of surveying and has been a registered Professional Land Surveyor (PLS) since 1974. He co-founded BFM Corporation in 1982 after serving with another surveying firm for over 15 years and is currently a partial owner of the firm. Mr. Fontcuberta is thoroughly knowledgeable in all facets of surveying: boundary, hydrographic, topographic, and right-of-way surveying, as well as residential, plant, and industrial layout. Since the beginning of his career, his work has entailed computations, drafting, and field work for various industrial, commercial, municipal, and private clients.

Project work has included topographic surveying needed for a wide variety of engineering, architectural, and related endeavors. This work has included projects for numerous branches of the Jefferson Parish Government, the Louisiana Dept. of Transportation & Development (LADOTD), the Louisiana Dept. of Natural Resources (LADNR), the U.S. Army Corps of Engineers (USACE), the Mississippi Dept. of Transportation (MDOT), the Dept. of the Navy, Entergy, BellSouth, and various other municipalities and public/private entities.

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

Almonaster Avenue Bridge Rehabilitation Project (DOTD H.014530), New Orleans, LA. The existing Almonaster Avenue Bridge over the Inner Harbor – Navigation Canal (IH-NC) is a movable Strauss-heel trunnion bridge built circa 1920 and is owned and operated by the Board of Commissioners of the Port of New Orleans. The bridge carries two railroad tracks owned by CSX Transportation, Inc., and one vehicular lane in each direction; however, the vehicular lanes are closed. The Board, in conjunction with the Louisiana Department of Transportation and Development (LADOTD) and the City of New Orleans, wishes to modify the bridge and approach roadways. BFM was contracted to provide surveying services for multiple phases of the overall project, including topographic surveying, GPS static control, and survey line. Drone surveying is a key element. (\$46,550 (fee); ongoing)

Hanson City Task II Force Main, Kenner, LA. BFM provided Subsurface Utility Engineering (SUE) surveying services for the project. The SUE process includes non-destructive surface geophysical methods which determine the presence of subsurface utilities and to mark their horizontal position on the ground surface. Vacuum excavation techniques are used to expose & record the precise horizontal and vertical position of the assets. A conflict matrix is also created to evaluate and compare collected utility information with project plans, identify conflicts and propose solutions. (\$33,500 (fee); 2019)

Labarre Road Railroad Crossing, Metairie, Jefferson Parish, LA. BFM executed a topographic survey with SUE (subsurface utility engineering) for the project. (\$7,556 (fee); 2017)

continues

continued

Ralph P. Fontcuberta, Jr., PLS

Executive Vice President; Registered Professional Land Surveyor

Inner Harbor Navigation Canal Levee & Floodwall Breaches, New Orleans, LA. BFM provided cross section at various locations of the Inner Harbor Navigation Canal for levee and floodwall breach repairs. A U.S. Army Corps of Engineers project. (\$30,000 (fee); 2006)

Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone Surveying services were also included. (\$68,090 (fee); 2020)

Undesignated Canal Survey, Norco, St. John the Baptist Parish, LA. BFM provided topographic surveying services for an undesignated canal, in Norco, Louisiana, adjacent to the Shell Refinery and intersecting with the established Engineer's Canal. (\$11,580 (fee); 2017)

Parish-Wide Safe House Program, Jefferson Parish, LA. BFM provided surveying services associated with elevated safe houses at multiple locations throughout Jefferson Parish; this was part of a Parish-wide project to establish safe houses for pumping stations at multiple locations which will allow pump operators to safely remain at their station, ensuring the pumps continue to operate, during a hurricane event. (\$112,490 (fee); 2005 - 2007)

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

Coventry Drainage Pump Stations, Jefferson Parish, LA. BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge. (\$89,780 (fee); 2020)

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

FEMA New Orleans Streets Program/Submerged Roads Program (Recovery Roads Program), City of New Orleans, LA. BFM Corporation provided surveying services for the FEMA New Orleans Streets Program (Recovery Roads Program; approximately three dozen separate contracts); this work involved the preparation of a Route Topographic Survey (FEMA) for each project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Project involved coordination with Prime Firm schedule and the City, as well as extensive records research. (\$8.9 M (cumulative fee); 2013 – 2018)



Chad M. Poché, P.E.

Executive Vice President; Engineering Liaison

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

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

Transportation Work Identification Card (TWIC)

Years with this Firm: 4 (2017)
Total Years Experience: 28 (1993)

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

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

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

River Road Estates Construction Layout, Hahnville, St. Charles Parish, LA. BFM provided surveying services for the construction layout of River Road Estates. The project featured drone-based surveying services. (\$17,445 (fee); 2018)

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

Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone Surveying services were also included. (\$68,090 (fee); 2020)

continued **Chad M. Poché, P.E.**
Executive Vice President; Engineering Liaison

Almonaster Avenue Bridge Rehabilitation Project (DOTD H.014530), New Orleans, LA. The existing Almonaster Avenue Bridge over the Inner Harbor – Navigation Canal (IH-NC) is a movable Strauss-heel trunnion bridge built circa 1920 and is owned and operated by the Board of Commissioners of the Port of New Orleans. The bridge carries two railroad tracks owned by CSX Transportation, Inc., and one vehicular lane in each direction; however, the vehicular lanes are closed. The Board, in conjunction with the Louisiana Department of Transportation and Development (LADOTD) and the City of New Orleans, wishes to modify the bridge and approach roadways. BFM was contracted to provide surveying services for multiple phases of the overall project, including topographic surveying, GPS static control, and survey line. Drone surveying is a key element. (\$46,550 (fee); ongoing)

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

Sunset Drainage District Levee, St. Charles Parish, LA. BFM's scope of services included the execution of a Route Topographic Survey of the project area, located in Paradis and Bayou Gauche in St. Charles Parish. In a Route Topographic Survey, the full scope plan & profile includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$76,460 (fee); 2020)

CGB Marine Facility, LaPlace, St. John the Baptist Parish, LA. Scope of services executed by BFM involved a topographic with hydrographic survey. This involved a Single Profile commencing at protected side toe of Mississippi River Levee (and extending perpendicular to the river). The hydrographic survey extended approximately 400 ft. from the water's edge (approx. 1,475 LF). (\$5,000 (fee); 2019)

Fish Bayou Site (Servitude Survey, Sect 28, T8S, R2E), Ascension Parish, LA. BFM's scope of services included location of topography within the proposed servitude, property corners to verify the boundaries affected by said servitude, and the existing levee trail for the creation of a servitude for EAD and USGS servitude. Services under Task 1 also included staking, mapping, and legal documentation of drainage servitudes and fee title property concerning the Ascension Parish DPW EA Drainage District No. 1. (\$12,890 (fee); 2019)

Bayou St. John Seawall Erosion Control Project (Reaches 2D and 3A), Bayou St. John, Orleans Parish, LA. BFM's scope of services involved all required topographic and hydrographic surveying services for this element of the Bayou St. John Seawall Erosion Control Project. Elevations and two TBMs were tied in to baselines from previous BFM project work for Reaches 2D and 3A after recovery & verification of horizontal & vertical control. Scope included location of visible above-ground utilities and underground utilities with visible surface evidence; where available, BFM obtained record drawings from relevant agencies to further plot utilities. Improvements (within the limits of the survey scope) were located, including existing flood wall and footer, existing concrete revetments at the toe of the levee, the tops & toes of the levee, and rip-rap; also included were bridge joints, barrier top, and exterior bridge deck. Elevation shots were taken and shown on aerial imagery. Deliverables included hardcopy, PDF, and AutoCAD DWG formats. (\$17,385 (fee); 2019)

Mid City Apartments Phase II, New Orleans, LA. BFM provided comprehensive surveying services associated with Phase II of the Mid City Apartments project in New Orleans. This phase involved the construction layout survey of the Apartment Building and Parking Garage, which consisted of shooting existing elevations, provision of corners, and staking piles. After project completion, an As-Built Survey was executed for both buildings. (\$54,000 (fee); 2019)



John Philip Thayer

Field Operations Supervisor

Professional Land Surveyor Registration in process, State of Louisiana

Certificate, 2015, Land Surveying Services

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

Years with this Firm: 13 (2008)

Total Years Experience: 14 (2007)

Mr. Thayer is a Field Operations Supervisor with considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types. He has provided field surveying and project supervision on hundreds of roadway projects with BFM Corporation.

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

River Road Estates Construction Layout, Hahnville, St. Charles Parish, LA. BFM provided surveying services for the construction layout of River Road Estates. The project featured drone-based surveying services. (\$17,445 (fee); 2018)

FEMA New Orleans Streets Program/Submerged Roads Program (Recovery Roads Program), City of New Orleans, LA. BFM Corporation provided surveying services for the FEMA New Orleans Streets Program (Recovery Roads Program; approximately three dozen separate contracts); this work involved the preparation of a Route Topographic Survey (FEMA) for each project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Project involved coordination with Prime Firm schedule and the City, as well as extensive records research. (\$8.9 M (cumulative fee); 2013 – 2018)

Coventry Drainage Pump Stations, Jefferson Parish, LA. BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge. (\$89,780 (fee); 2020)

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

continued **John Philip Thayer**
Field Operations Supervisor

Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone Surveying services were also included. (\$68,090 (fee); 2020)

Mid City Apartments Phase II, New Orleans, LA. BFM provided comprehensive surveying services associated with Phase II of the Mid City Apartments project in New Orleans. This phase involved the construction layout survey of the Apartment Building and Parking Garage, which consisted of shooting existing elevations, provision of corners, and staking piles. After project completion, an As-Built Survey was executed for both buildings. (\$54,000 (fee); 2019)

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

New North Terminal, Louis Armstrong New Orleans International Airport, Kenner, LA. BFM provided all required surveying services (topographic, boundary, etc.) as required for this \$800 million project which consists of the construction of a new terminal facility including a new 800,000 square foot building, vehicle ramps, parking garage & lots, and other airport appurtenances. Changes to the scope occurred due to project area expansion and additional service needs by the Prime, all of which were handled by BFM. (\$208,541 (fee); 2014)

Lafitte Housing Surveys, Housing Authority of New Orleans (HANO), LA. BFM provided surveying services for the Lafitte Housing project in New Orleans. Specifically, BFM's tasks included ALTA survey, as-built survey, and construction elevations/final elevations. (\$120,715 (fee); 2011)

New Veterans Administration Hospital, First District, Orleans Parish, LA. BFM provided surveying services for the project. This included the general area around the building, South Galvez between Canal Street & Tulane Avenue, and a general survey of the existing infrastructure within the project limits. (\$88,944 (fee); 2010)

Ernest N. Morial Convention Center Neighborhood Site Infrastructure, New Orleans, LA. BFM provided boundary & topographic surveying services for the project site (900 Convention Center Boulevard in New Orleans) for the Convention Center Development District. The project executed was adherent to the client-provided AIA document (dated August 20, 2015). (\$86,720 (fee); 2015)

SLFPA-E Levee Certification Phase 2 Survey - 40 Arpent & Maxent Levees, Orleans & St. Bernard Levee Systems, Orleans Parish, LA. BFM surveyed the centerline of the 40 Arpent "Back" Levee (in excess of 124,000 lf on a 100 ft grid). Control points were established utilizing RTK GPS. In addition, each pump station was surveyed and all grade breaks/roads were obtained along the centerline of the levee. The old shrimp building at Violet Canal was also located as part of the survey. Surveys included utility locations (based on field evidence, investigation, and available utility records) as well as foundation of above-ground utility poles, wet wells, and pipeline crossings. Bathymetry information was incorporated into cross-section point file and combined with ground survey; this information was further converted to the same elevations as the levee profile work. Additional cross sections were surveyed to support detailed geotechnical analysis; locations were coordinated with the geotechnical engineer of record for the project. These cross sections extended 100 ft from the toe of the levee in both directions and included bathymetry of the lake, wetland, or canal, depending on location, and extended until depth of the body was determined. (\$46,505 (fee); 2013)



Gary J. Lambert, Jr., PLS

Project Manager/Drafting Supervisor

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

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

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

Basic OSHA Training - Completed

Gulf Coast Safety Council, 08SSV, ID429523

Years with this Firm: 3 (2018)

Total Years Experience: 3 (2018)

Mr. Lambert provides Project Management and Drafting Oversight for the firm. He has also provided Survey Crew Chief Services since joining BFM and offers a well-rounded experience overview for any project. Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523) and is a Registered Professional Land Surveyor in the State of Louisiana (No. 5929, 2021).

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

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

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

Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone services were also included. (\$68,090 (fee); 2020)

Coventry Drainage Pump Stations, Jefferson Parish, LA. BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge. (\$89,780 (fee); 2020)

Broadmoor/Freret Transmission Line Replacement, New Orleans, LA. BFM's scope of services included a Route Topographic Survey for the project area, which included South Claiborne Avenue, Eden Street, and Magnolia Street. A later element included South Claiborne Avenue from the westerly property line of Tulane University to the westerly right-of-way for Jefferson Avenue. (\$75,140 (fee); 2021)

St. Claude Group G (RR172) Route Topographic Survey, City of New Orleans, LA. BFM's Route Topographic Surveying services for this group encompassed multiple routes: Congress Street, Independence Street, Alvar Street, Bartholomew Street, and Mazant Street, with various segments totaling 8,425 linear feet. In a Route Topographic Survey, the full scope plan & profile includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$58,975 (fee); 2020)

Expansion of the Port of New Orleans Cold Storage Facility, Port of New Orleans, LA. BFM provided surveying services for the Cold Storage Facility Expansion Project, located at 3411 Jordan Road, for the Port of New Orleans, Louisiana. The scope of services included a topographic survey; this included establishing three temporary benchmarks (TBMs) and location of improvements & utilities. Spot elevations were taken at 25 foot intervals and at grade breaks within the limits of survey. (\$29,710 (fee); 2020)

Brewster Road Subsurface Drainage Improvements and Proposed Detention Pond, St. Tammany Parish, LA. BFM provided multiple surveying services (including Route Topographic, Right-of-Way, Drainage Study, Property Acquisition) for the Brewster Road Subsurface Drainage Improvements and Proposed Detention Pond in St. Tammany Parish. The Limits of Survey included the area of Brewster Road between LA HWY 1077 and LA HWY 21; BFM provided Temporary Benchmarks, location of all improvements (natural and man-made) and utilities (including drainage, sewer, and water structures), and coordination with State and Local agencies. BFM took cross-sections at 100 ft. intervals and property corners along the route to determine rights-of-way. (\$203,320 (fee); 2020)

John Hopkins Force Main, City of Kenner, LA. BFM provided Route Topographic and right-of-way surveying services for the project which was located along a portion of Ole Miss Drive in Kenner. (\$12,510 (fee); 2020)

Gentilly Terrace South Group (RR203) Surveying Services (Lavender Street), New Orleans, LA. BFM provided Route Topographic Surveying services for the RR203 Gentilly Terrace South Group (Lavender Street, from Lotus Street to Iris Street), consisting of approximately 1,620 linear feet. For the RTS, the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$4,250 (fee); 2020)

Medical Center Boulevard Lighting, Marrero, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the proposed lighting project; the survey extended from apparent R/W (right-of-way) to apparent R/W along Medical Center Boulevard from Wichers Drive to the West Bank Expressway (approximately 2,200 linear feet), with spot elevations taken at 50 foot intervals. The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$26,410 (fee); 2020)

Hollygrove Group E (RR065) Route Topographic Survey, Jefferson Parish, LA. BFM executed a Route Topographic Survey of Hollygrove Group E (RR065); this involved Forshey Street, Hollygrove Street, Hamilton Street, Edinburgh Street, and Mistletoe Street (a total of 4,950 linear feet). The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$34,650 (fee); 2020)



Christopher Lemley

Quality Control Supervisor / Survey Crew Chief

American Traffic Safety Service Assn. – Traffic Flagger

Years with this Firm: 7 (2014)

Total Years Experience: 15 (2006)

Christopher Lemley's surveying experience includes over 7 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station. Notable past project work has included the New Orleans Museum of Art, Jackson Barracks Restoration, US Highway 11, NASA Michoud Cells 3 & 4, the St. Bernard Lot Next Door Program, and multiple Orleans Parish School Recovery project (including L.B. Landry, George Washington Carver, and Alice M. Harte schools). Further, Mr. Lemley serves as BFM's Quality Control Supervisor.

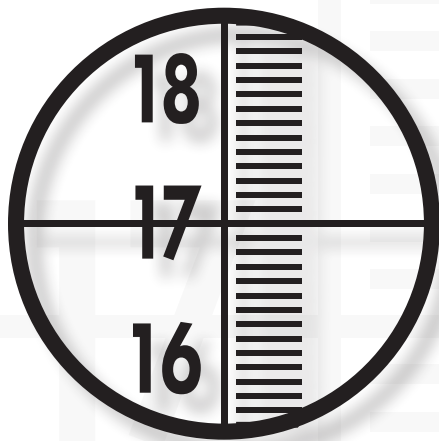
Coventry Drainage Pump Stations, Jefferson Parish, LA. BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge. (\$89,780 (fee); 2020)

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

Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone services were also included. (\$68,090 (fee); 2020)



Anthony Watson

CADD Technician

Coursework - CAD, Avatech Solutions, Los Colinas, TX

Years with this Firm: 8 (2011)

Total Years Experience: 28 (1991)

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

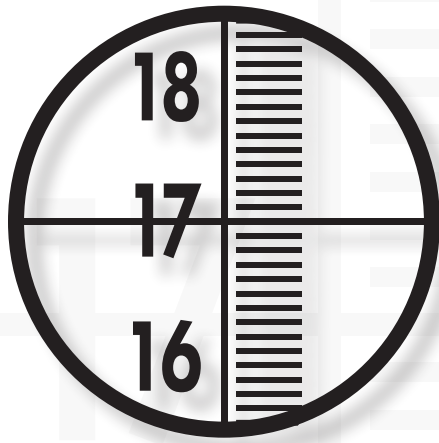
Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control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

FEMA New Orleans Streets Program/Submerged Roads Program (Recovery Roads Program), City of New Orleans, LA. BFM Corporation provided surveying services for the FEMA New Orleans Streets Program (Recovery Roads Program; approximately three dozen separate contracts); this work involved the preparation of a Route Topographic Survey (FEMA) for each project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Project involved coordination with Prime Firm schedule and the City, as well as extensive records research. (\$8.9 M (cumulative fee); 2013 – 2018)

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

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

Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone services were also included. (\$68,090 (fee); 2020)



Curtis "Jay" Barrios

Survey Crew Chief

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

Years with this Firm: 31 (1990)
Total Years Experience: 31 (1990)

Mr. Barrios' surveying experience includes boundary, hydrographic, and topographic. He has worked on location and performed topographic surveys for a number of large capital projects. Further, Mr. Barrios has been involved on major transmission projects for Entergy and South Central Bell (AT&T). He is American Traffic Safety Service Association certified as a Traffic Flagger, and is Transportation Work Identification Card (TWIC) certified.

Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone services were also included. (\$68,090 (fee); 2020)

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

High Water Mark/Inundation Data Surveys, Various Parishes throughout Southern Louisiana. In the wake of Hurricanes Katrina and Rita, BFM provided surveying for high water marks/inundation data as noted by URS technicians in various Parishes throughout Southern Louisiana, including the Parishes of Livingston, Coupee, Rapides, Calcasieu, Allen, Beauregard, Vernon, Avoyelles, and St. Landry. (\$27,300 (fee); 2006)

Levee Breaches at the Inner Harbor Navigational Canal Reaches for Levee & Floodwall Reconstruction, New Orleans, LA. BFM provided topographic surveying for various Levee Breaches at the Inner Harbor Navigational Canal Reaches for Levee & Floodwall Reconstruction. A U.S. Army Corps of Engineers project. (\$115,300 (fee); 2006)

London Avenue Canal Floodwall & Levee Breaches, New Orleans, LA. BFM established cross sections at various locations of the London Avenue Canal for floodwall breach repairs. A U.S. Army Corps of Engineers project. BFM also performed hydrographic surveys at various points. (\$62,200 (fee); 2006)

Bonnabel Pump Station Safe House, JPPW 2003-022-PS, Jefferson Parish, LA. BFM provided surveying services associated with an elevated safe house; part of a Parish-wide project to establish safe houses for pumping stations at multiple locations which will allow pump operators to safely remain at their station, ensuring the pumps continue to operate, during a hurricane event. (\$6,815 (fee); 2005)

Multiple Post-Katrina FEMA Trailer Site Surveys throughout the Metro Area. BFM provided topographic surveying for multiple FEMA trailer sites (Coca-Cola Plant, Perry Street Wharf, UNO-SUNO, etc.) as requested. (2005/2006)



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

Lookup Detail View

Contact

Name	Public Address
BFM Corporation, LLC	BFM Corporation, LLC Ms. Dale L. Holley 15 Veterans Memorial Boulevard Kenner, LA 70062

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000008	Active	09/11/1984	09/30/2021	Mr. Ralph P. Fontcuberta Jr. # PLS.0004329 - Active

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**LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)**

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

Mr. Ralph P. Fontcuberta Jr.

License/Certificate Type - Number	Expiration Date
PLS.0004329	09/30/2022

Status: **Active**



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ENGINEERING & LAND SURVEYING BOARD
(LAPELS)**

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Baton Rouge, LA 70809
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Mr. Chad Mitchell Poche

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

Status: **Active**



**LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)**

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

Mr. Gary James Lambert Jr.

License/Certificate Type - Number	Expiration Date
PLS.0005259	03/31/2023

Status: **Active**



Division of Small and Emerging Business Development
SEBD CERTIFICATION

BFM CORPORATION, LLC

is hereby certified as a Small and Emerging Business Enterprise.

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

Issued at Baton Rouge, Louisiana 7/19/2019

This certification expires on: 7/19/2029

Certification No. 9551

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



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

BFM CORPORATION, LLC

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

This certification is valid from 7/14/2020 to 7/14/2021.

Certification No. 9551

Stephanie Hartman,
Director, Entrepreneurial Services

NOTE: BFM Corporation, LLC, has been certified as a Small Entrepreneurship since first applying in 2011. Due to unforeseen circumstances, we have not received our renewal certificate for 2021-2022.