



Statement of Qualifications 24-021

**RESOLUTION NO. 144319  
ROUTINE ENGINEERING SERVICES FOR  
STREETS PROJECTS**

JULY 16, 2024

**Contact:**

Dishili Young, PE, PTOE  
*Project Manager*  
1340 Poydras Street, Suite 1950  
New Orleans, LA 70112  
504-875-4662  
[dishili.young@neel-schaffer.com](mailto:dishili.young@neel-schaffer.com)

July 16, 2024

Jefferson Parish Council  
General Government Building  
200 Derbigny Street, Suite 6700  
Gretna, Louisiana, 70053

RE: SOQ 24-021 Resolution No. 144319 Routine Engineering Services for Streets Projects

Neel-Schaffer, Inc. (NSI) is a large, multi-disciplined consulting engineering firm of almost 500 professional, technical and support staff operating business throughout the southern and southeastern United States with Louisiana offices in New Orleans, Mandeville, Baton Rouge, Lafayette, and Shreveport.

Neel-Schaffer has been recognized in the Engineering News Record "Top 500 Design Firms" listings since 1994 and ranked in the top 250. In addition, Neel-Schaffer has previously been named in the top 25 road and highway design firms in the nation by *Roads & Bridges* magazine.

NSI has been selected repeatedly by LADOTD for on-going retainer contracts over the past eighteen years. This is an excellent indication of our firm's performance ability on public contracts and NSI's reputation as a consultant of choice by public agencies.

Work under this contract will be performed in our New Orleans, LA office, located at 1340 Poydras Street, Suite 1950, New Orleans, LA 70112 with support provided by other Neel-Schaffer offices as required.

We look forward to the opportunity to be of service to Jefferson Parish.

Sincerely,



Nick Ferilto, Jr., PE, PTOE  
Senior Vice President

enclosure

## TEC Professional Services Questionnaire

**A. Project Name and Advertisement Resolution Number:**

**SOQ 24-021 Routine Engineering Services for Streets Projects Resolution No. 144319**

**B. Firm Name & Address:**



1340 Poydras Street, Suite 1950  
New Orleans, LA 70112

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

**Nick Ferlito, Jr., PE, PTOE Senior Vice President / Louisiana Area Manager**  
225.924.0235

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

**Dishili Young, PE, PTOE**  
225-614-2816  
Dishili.young@neel-schaffer.com

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

<u>6</u> Administrative ___ Architects (Licensed) ___ Chemical Engineers <u>24</u> Civil Engineers <u>2</u> Construction Inspectors ___ Ecologists ___ Electrical Engineers <u>4</u> Engineer Intern ___ Professional Land Surveyors	___ Estimators <u>1</u> Geologists ___ Geotechnical Engineers ___ Interior Designers ___ Landscape Architects ___ Land Surveyor ___ Mechanical Engineers ___ Environmental Engineers <u>8</u> Other (Planners, Tech Support)	___ Specification Writers <u>1</u> Structural Engineers ___ Graduate Engineers <u>1</u> Project Managers ___ Clerical ___ Grant/Funding Specialist ___ Sanitary Engineers <b><u>47</u> TOTAL</b>
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**F. Is this submittal by a JOINT-VENTURE? Please check: YES  NO**

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

## TEC Professional Services Questionnaire

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

1. N/A

2.

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

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. Eustis Engineering Services, L.L.C. 3011 28th Street Metairie, Louisiana, 70002	Geotechnical Engineering	Yes
2. BFM Corporation, LLC 1534 Veterans Memorial Kenner, LA 70062	Surveying	No

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

**44 (Prime) + 102 (subs) = 146 (Total)**

## TEC Professional Services Questionnaire

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

### PROFESSIONAL IN CHARGE OF PROJECT:

**Name & Title:**

Dishili Young, PE, PTOE *Senior Project Manager*

**Project Assignment:**

Project Manager

**Name of Firm with which associated:**



**Years' experience with this Firm:**

7 (21 Total)

**Education: Degree(s)/Year/Specialization:**

BS / 2002 / Civil Engineering  
MS / 2008 / Civil Engineering

**Active registration: Year first registered/discipline:**

2008 / Professional Engineer – Civil, LA 33723

**Other experience and qualifications relevant to the proposed Project:**

Ms. Young offers over 20 years of progressive experience which includes program management, engineering management, project management and engineering design. She has served as St. Charles Parish Program Manager for the department of Public Works and Wastewater and continues to provide services as a consultant to local municipal clients and States. Her experience includes interstate design-build projects, road design projects, environmental studies and feasibility Studies. She has assisted with the conceptual design development, public outreach, and sections of the environmental document for environmental assessments and environmental impact statements. She has experience in bridge scour analysis and drainage design, and cost estimating. She has experience working on FEMA projects which include activities such as cost-benefit analysis for Hazard Mitigation Grant Program grant applications, site evaluations for damages due to flooding, scope development and funding of flood damaged roadways, and culverts. In addition, she has assisted with similar FEMA work for bridges. Mrs. Young is experienced in HEC-RAS, Autodesk Storm and Sanitary Sewer, InRoads XM, MicroStation V8, Civil 3D 2012 and AutoCad 2012.

**RELATED EXPERIENCE**

**LA 73 Turn Lanes:** Ms. Young served as engineering design manager for this project which constructed turn lanes at multiple locations along LA 73 to improve safety. The design completed in accordance with LADOTD guidelines.

## TEC Professional Services Questionnaire

**Earhart Expressway Master Plan, Jefferson and Orleans Parishes:** Project Manager for reviewing past and existing projects, evaluating their impacts, cost and traffic. She is conducting meetings with stakeholders, helping to identify which projects will be retained and incorporated into the Earhart Expressway Master plan. She has managed the completion of layouts of the identified improvements on base maps, and is currently prioritizing the projects based on cost, benefits, and impacts. She will compile these findings in a report. These tasks are being completed with coordination and the input from LADOTD, the RPC and Jefferson Parish.

**US 190 Access Management Stage O and Traffic Study:** Design Manager for improvements to the safety and aesthetics along US 190 between Carondelet St. and Jackson Ave as well as to provide for smoother flow of traffic through the area.

**Juban Road Widening – Livingston Parish, LA:** Ms. Young served as the engineer of record and managed the completion of the design services for this project which widened LA 1026, constructed two multi-lane roundabouts and two new frontage access roadways. Project Manager.

**I-49 South (Raceland to Westbank Expressway), Jefferson, Lafourche, and St. Charles Parishes, LA:** This project involves the completion of a Line and Grade Study as well as a Supplemental Environmental Impact Statement (SEIS) for US 90 with LA 1/LA 308 Interchange in Lafourche Parish and extending to the elevated Westbank Expressway in Jefferson Parish. Similarly, to I-49 South (Ricohoc to Berwick), this project will upgrade the existing US 90 corridor to a control of access highway.

**Ham Reid at LA 3092 Intersection Improvements – Calcasieu Parish, LA:** Ms. Young served as engineer of record for this project which will construct a roundabout at the intersection of LA 3092 and Ham Reid Road. The roadway and drainage design were completed in accordance with LADOTD guidelines and includes signage. It is anticipated that NSI will provide the CE&I services for this project. Project Manager.

**Mandeville Bypass – Mandeville, LA:** This project will provide a new 3 Mile median divided roadway with integral bike path connecting LA 1088 near its interchange with I-12 and US 190 near Fontainebleau Park. It will construct five roundabouts and multiple entrances to Pelican Park. Ms. Young is managing the design services.

**US 90 & Prater Road Turn Lane Improvements:** This project involves the addition of turn lanes and an acceleration lane at the intersection of US 90 and Prater Road. Ms. Young managed the completion of the preliminary and final plan sheets, baselines, sequence of construction and striping and signage plans for this project.

**US 90 & Trousdale Road Turn Lane Improvements:** This project involves the addition of turn lanes and an acceleration lane at the intersection of US 90 and Trousdale Road. Ms. Young managed the completion of the preliminary and final plan sheets, baselines, sequence of construction and striping and signage plans for this project.

**US 108 & Trousdale Road Turn Lane Improvements:** This project involves the addition of turn lanes at the intersection of US 108 and Trousdale Road. Ms. Young managed the completion of the preliminary and final plan sheets, baselines, sequence of construction and striping and signage plans for this project.

**Stage 0 Feasibility Study and Environmental Inventory for LA 30 (Ashland Rd. to LA 44) - Ascension Parish, LA:** Ms. Young served as Project Manager and Project Engineer. She assisted in the completion of conceptual horizontal alignments for approximately 20 interchanges which were considered in the Tier 1 interchange analysis. Interchanges included DDI, Roundabouts, partial and full cloverleaf's, SPUI, directional interchanges and diamond interchanges. She has also assisted with the determination of design criteria.

**Stage 0 Feasibility Study and Environmental Inventory for LA 70 Bypass in Assumption Parish for LA DOTD:** This project considered the feasibility of constructing an emergency route as well as a permanent bypass for LA 70. This study also considered the relocation of utilities, analysis if the existing detour routes for conformance with design criteria. Ms. Young served as the Project Manager and Engineering Professional responsible for performing the Feasibility Study which included the determination of design criteria, establishment of typical sections, horizontal roadway alignment design, calculation of fill and cut quantities, construction, ROW, and utility relocation cost calculations, production of plan sheets and project coordination.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Nick Ferlito, Jr., P.E., PTOE Senior Vice President / Louisiana Manager
<b>Project Assignment:</b>
Project Principal
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
28 years
<b>Education: Degree(s)/Year/Specialization:</b>
BS / 1993 / Civil Engineering; MS/1996/Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
1998 / Professional Engineer – Civil, LA 28001
<p>Mr. Ferlito joined Neel-Schaffer in 1996. He is a Senior Vice President and serves as Louisiana Area Manager, overseeing all responsibilities for the state.</p> <p>An ITE-certified Professional Traffic Operations Engineer, he has more than 30 years of experience and manages a wide range of traffic and transportation projects. He has served as a project manager for many intersection/corridor signal timing studies, signal design projects, safety studies and other traffic engineering related projects for public and private projects.</p> <p>Mr. Ferlito is experienced with numerous traffic engineering software packages, including HCS, CORSIM, SYNCHRO, Tru-Traffic (TSPPDraft), and SIDRA. He also completed the Naztec TS1/TS2 Controller 2-Day training course. He has also completed the NEPA and Transportation Decision Making course (2004), the Highway Safety Manual Workshop (2011) as well as LADOTD's Traffic Engineering Process and Report (TEPR) training.</p>
<p><b>RELEVANT EXPERIENCE</b></p> <p><b>I-10 &amp; I-12 College Drive Flyover Ramp Design-Build, Baton Rouge, LA:</b> Project Manager for Interchange Modification Report, Transportation Management Plan (TMP) and ITR of MOT Plans for the proposed College Drive Ramp improvements. The IMR was prepared in accordance with DOTD's TEPR and FHWA Policy Points. The IMR analysis was performed using Vissim software. In addition, the TMP was prepared for the various maintenance of traffic phases. Analysis used in the TMP included HCS analysis for detour evaluations and Dynameq (Mesoscopic Modeling) for evaluating various MOT strategies. The project also includes signal modification plans at College Drive and the I-10 WB off ramp. (July 2020 – Present)</p> <p><b>US 80 Feasibility Study, Haughton, LA:</b> Stage 0/Traffic &amp; Safety Study (S.P. No. 44-10504, T.O. No. H.014044.1) Project Manager for the preparation of a Stage 0 Report in support of safety improvements along US 80 corridor, specifically in the vicinity of Bellevue Road and Mid South Loop Road. All analysis performed in HCS for this study. The traffic study was</p>

## TEC Professional Services Questionnaire

performed in accordance with DOTD's TEPR.

**Kansas Lane-Garrett Road Connector and I-20 Improvements, Monroe, LA:** (S.P. No. H.004774.5 & H.007300.6) Project Manager/Traffic Lead for the preparation of a Level 4 Transportation Management Plan, review of MOT plans, design of temporary and permanent traffic signals and design of the relocation of DOTD ITS fiber optic trunk line.

**I-49 South at Verot School Road, Lafayette, LA:** (S.P. No. H.011235.5) Traffic Lead that performed Traffic QA/QC on the preparation of a Transportation Management Plan and design of temporary and permanent traffic signals.

**MOVEBR Harding Boulevard at Interstate I-110:** Project Manager for traffic engineering for intersection improvements for Harding Boulevard at I-110 to analyze the existing and projected future No Build conditions for operational and safety issues, and developed Tier 1 design solutions that mitigate those issues.

**MOVEBR College Drive Enhancements:** Project Manager for a traffic study that addressed pedestrian mobility and transit accommodations. The overall project plan incorporated planned LADOTD improvement projects at Interstate 10 which include a Design-Build project to modify the westbound offramp and other ramp terminal improvements implemented by the I-10 widening CMAR project.

**MOVEBR N. Sherwood Forest Extension:** Project Manager for design report for the extension of the existing North Sherwood Forest Drive from its current northern terminus at Greenwell Springs Road to the intersection of Joor Road at Mickens Road.

**College Drive Enhancement Project (Perkins Road to I-10), Baton Rouge, LA (MOVEBR Project 19-EN-HC-0033):** Project Manager for the Traffic Study component for the study of the College Drive corridor. The Traffic Study is being prepared in accordance with DOTD' TEPR and includes performing all analysis in Vissim to evaluate various alternatives. In addition to corridor improvements, a tiered analysis will be performed to evaluate various interchange alternatives for I-10 at College Drive. Dynameq will also be used to evaluate off system and connectivity alternatives within the study area.

**LA 385 Feasibility Study, Lake Charles, LA:** Stage 0/Traffic & Safety Study (S.P. No. 44-4402, T.O. No. H.012685.1) Developed a Stage 0 Report in support of safety improvements along with the LA 385 (Ryan Street) corridor between LA 3186 south of I-10 to Eddy Street north of I-10, including the LA 385 interchange with I-10. Traffic Engineering Manager

**LA 6 Feasibility Study, Natchitoches, LA:** Stage 0 / Traffic & Safety Study (S.P. 44-4402, T.O. No. H.012307.1) Prepared and coordinated a formal Stage 0, including a comprehensive safety analysis and traffic study for the purpose of analyzing existing and future conditions along the LA 6 corridor between Parish Road 542 west of I-49 to LA 3278 east of I-49, including the LA 6 interchange with I-49 to determine feasible alternatives that will preserve and enhance mobility and safety. Traffic Engineering Manager

**District 05 Safety Investment Plan, DOTD District 05 (SPN 4400010504, Task No, H.014295.1).** Project Manager for this study. Coordinated the evaluation of crashes on the state and local highway networks using variations in crash statistics to identify possible roadway issues and potential low-cost safety improvements.

**IDIQ Contract for Safety Studies (44-10504) District 08 Safety Investment Plan:** Developed a District-wide Safety Investment Plan for low cost improvements for HPSI locations, abnormal intersections, roadway departure locations and local roads. Crash history was evaluated at over 70 locations, countermeasures were identified and B/C analysis was performed using CMFs and estimated construction cost for potential low cost improvements at each location.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Don Lancaster, PE <i>Engineering Manager</i>
<b>Project Assignment:</b>
Senior Project Engineer
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
24 years (41 total)
<b>Education: Degree(s)/Year/Specialization:</b>
BS / 1982 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
1987 / Professional Engineer - Civil, LA 22821
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Don has 41 years of experience in civil engineering and project management. He manages Neel-Schaffer's offices in Mandeville and New Orleans, LA, as well as overseeing some of the company's largest design, bid and construction administration projects.</p> <p>He has extensive experience in program and project management for large and small municipal and port related projects that include programming, design, bidding and construction administration. His civil background includes ports; roads and bridges; streetscapes; structural; and water and wastewater.</p> <p>Don has extensive experience in preparing contract documents for construction projects. He has coordinated and worked with many local, state and federal agencies, including the Sewerage and Water Board of New Orleans, United States Corps of Engineers, Louisiana Department of Transportation and Development, the New Orleans Levee District, the Port of Gulfport, the Coastal Protection and Restoration Authority and numerous cities, parishes and counties.</p>
<b>RELATED EXPERIENCE</b>
<p><b>Roads Program - West End Group G</b> - New Orleans, LA: Project Manager for the design and full reconstruction of six New Orleans residential blocks in the West End Neighborhood. The full reconstruction consists of replacement of the drainage network, water and sanitary sewer replacement, and full roadway restoration.</p> <p><b>Lower Ninth Ward, Northeast Group B</b> - New Orleans, LA: Project Manager for engineering services for the design, bidding, construction administration and resident inspection to reconstruct 24 blocks in the Lower Ninth Ward Neighborhood.</p>

## TEC Professional Services Questionnaire

**DeSaix Bridge** - New Orleans, LA: Project Manager for engineering services for the design, bidding and construction administration to replace this existing bridge over Bayou St. John.

**Lower Ninth Ward, Northeast Group A – New Orleans, LA:** Project Manager for the engineering services for the design, bidding, construction administration and resident inspection to repair and rehabilitate 82 blocks in the Lower Ninth Ward Neighborhood.

**Project Manager - Lower Ninth Ward – Quadrant 2** area that is bounded by Caffin Avenue, Florida Ave, the St. Bernard/Orleans Parish Boundary and North Claiborne Avenue. The basic services being performed by NSI's team are Scoping, Environmental Study, Preliminary Design, Final Design, Construction Administration/Resident Inspection for reconstruction of roadways.

**Project Manager, Post Katrina Road Assessments for the Governor's Office of Homeland Security and Emergency Preparedness.** Project manager for team that conducted roadway damage assessments with FEMA and the Local Public Agencies. Assessments were made in New Orleans, Jefferson Parish, St. Tammany and St. Bernard. Work included site inspections of roads to survey damages that were included in project worksheets. Prepared field reports and provided FEMA with damage assessment reports for roads, sidewalks, driveways and culverts.

**Project Manager, City of Bay Saint Louis Post Katrina Infrastructure Repairs, Bay St. Louis MS.** Project Manager for the planning, design, bidding, and construction management of this program. Supervised the engineering and support staff responsible for design and construction administration of over \$70 million in water, sewer, gas distribution, roadway and sidewalk improvements.

**Project Manager, Water Supply Upgrade for Hancock County Utility Authority, Hancock County, MS.** Projects include three 500,000 gallon elevated storage tanks, three new water supply wells, associated transmission mains and a new water distribution system to service Bayside Park in Hancock County, Mississippi. Total estimated construction cost for the proposed facilities is \$21 million.

**Project Manager, Water Supply Upgrade for Hancock County Utility Authority, Hancock County, MS.** Projects include three 500,000 gallon elevated storage tanks, three new water supply wells, associated transmission mains and a new water distribution system to service Bayside Park in Hancock County, Mississippi. Total estimated construction cost for the proposed facilities is \$21 million.

**Project Manager, City of New Orleans Streetscape Improvements in the Lower Ninth Ward and Broad Street, New Orleans, LA.** Project Manager for road repairs, sidewalk improvements and streetscaping for Broad Street, Saint Claude Street and North Claiborne Avenue in New Orleans Louisiana.

**Project Manager, High Water Level Flood Protection Bridges, USACE New Orleans, LA.** Designed flood protection bridges for the Orleans Avenue Canal, which is part of the City of New Orleans Hurricane Flood Protection System. This project included three bridges across Orleans Canal: Robert E. Lee Boulevard, Filmore Avenue, and Harrison Avenue. Work included new bridges, floodwalls (I-walls and T-Walls), levees, and roadway

approaches. These new bridges tie into the Hurricane Levee Protection System and allow the roads to remain open during flood conditions. The three bridges and flood protection tying into these bridges performed as designed and did not fail during Hurricane Katrina.

**Design Engineer, USACE South Claiborne Avenue Manifold Canal, New Orleans, LA.** Large manifold canal that is part of the Southeastern Louisiana flood control. Designed the utility relocations, temporary and permanent traffic control measures, road reconstruction and prepared the front end and technical specifications.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Mai Nguyen, PE <i>Project Engineer</i>
<b>Project Assignment:</b>
Project Engineer
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
8 Years ( <i>15 Total</i> )
<b>Education: Degree(s)/Year/Specialization:</b>
BS / 2008 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2013 / Professional Engineer – Civil, LA 38189
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Ms. Nguyen has over 13 years of experience as a Roadway Design Engineer, including over six years working for LADOTD roadway design. She is proficient with developing roadway plans in accordance with LADOTD design guidelines. She has completed numerous roadway construction plans, including roadway alignments, typical sections, cross sections, geometric details, graphical grades, drainage design, construction sequencing, striping, signing layout, and cost estimates. She also has completed countless interchange geometric layouts, roundabouts, and unconventional intersections following AASHTO and LADOTD design guidelines. She is experienced with feasibility studies, stage 0 reports, roadway concept layouts for traffic studies, develop high level cost estimates for multiple District Safety Investment Plans, and working with Contractors and LADOTD Engineers to ensure the project is constructed according to plans. She is Certified as a Work Zone Traffic Control Supervisor, Technician and Flagger.</p>
<b>RELATED EXPERIENCE</b>
<p><b>Earhart Expressway Master Plan, Jefferson and Orleans Parishes:</b> Engineering support for reviewing and assembling projects and studies that have been completed or underway in improving mobility, operation and safety relative to the project.</p>
<p><b>Juban Road Widening, Livingston Parish, LA:</b> Projects involves conceptual studies and design for widening Juban Road (LA 1026) from two to four lane capacity, including design for three roundabout geometry intersections.</p>
<p><b>Mandeville Bypass – Mandeville, LA:</b> This project will provide a new three-mile median divided roadway with integral bike path connecting LA 1088 near its interchange with I-12 and US 190 near Fontainebleau Park. It will construct five roundabouts and multiple entrances to Pelican Park.</p>
<p><b>US 190 Access Management Stage O and Traffic Study:</b> Project Engineer for improvements to the safety and aesthetics along US 190 between Carondelet St. and Jackson Ave as well as to provide for smoother flow of traffic through the area.</p>

## TEC Professional Services Questionnaire

**I-10 New Orleans Master Plan, New Orleans, LA:** Development of horizontal and vertical alignments of roadways, and geometric layouts of traditional interchanges, with multiple bridges, alternative intersections, ramps, roundabouts, and HOV lanes to provide access to the Port of New Orleans. Engineering design support. Includes roundabout alternatives.

**Interstate and Corridor Studies, Tangipahoa, St. Tammany, Natchitoches, and Orleans Parishes, LA:** Responsible for developing roadway concepts for numerous traffic and environmental assessment studies. Tasks included creating horizontal and vertical alignments, construction cost estimating, constructability analysis and the completion of geometric layouts for traditional interchanges, alternative intersections and interchanges and roundabouts.

**Local Road Signing (Vermillion), Vermillion Parish, LA:** This project will provide low-cost safety improvements and is a local road safety project. This project provides safety improvements by replacement of signs that are not in compliance with current MUTCD standards, installation of new signs and enhanced pavement striping. Ms. Nguyen is responsible for developing plans, quantities and cost estimates. / *Project Engineer.*

**I-20 @ LA 544 Overpass Replacement, Lincoln Parish, LA:** This project will replace the existing LA 544 bridge crossing and interchange with a new bridge and roundabouts. This project includes four multilane roundabouts located in a tight project area with connections to ramps and service roads with adjacent businesses. Ms. Nguyen is responsible for developing roadway plans in accordance with LADOTD design guidelines. Her main tasks include geometric layouts and connections, 3-D roadway models, Autoturn, sequence of construction, estimated quantities and project cost estimates. / *Design Engineer.*

**I-49 South at Verot School Road, Lafayette Parish, LA:** Ms. Nguyen is responsible for developing construction plans for 2.4 miles of mainline freeway and interchange at the intersection of I-49 South/US 90 and Verot School Road. This project includes the design of a major bridge crossing at Verot Road and I-49 and a roundabout at the relocated intersection of Verot Road and South College Road. Part of this project also includes new interchange over multilane highway and railroad, converting at-grade railroad crossing to above grade crossing, and reconstruct four at-grade railroad crossings.

**LA 73 intersection improvements at Brown Road and Oakland Road:** Design engineer for preliminary and final design services for turn lanes and drainage along LA 73 at Brown Road and Oakland Road. Challenges include utilities conflicts and bridge constraints. Also, completed conceptual layouts, construction cost estimates and roundabout study for the traffic analysis as part of the conceptual analysis phase previously held.

**Move Ascension Turn Lane Projects @ LA 73, Ascension Parish, LA:** Ms. Nguyen was responsible for developing preliminary and final design services for turn lane improvements on LA 73 at Brown Road and Oakland Drive. Challenges included utilities conflicts and bridge constraints. She completed preliminary, final design and construction proposal. She also completed conceptual layouts, construction cost estimates for the traffic analysis as part of the conceptual analysis phase.

**LA 27 Turn Lane Improvements, Cameron and Calcasieu Parishes, LA:** Ms. Nguyen was responsible for developing roadway plans following LADOTD design guidelines at three turn lanes along LA 27 at Cameron LNG plant entrances. The project involved 9-barrel box culvert and cross-drain extension, pavement widening, overlay and guardrail. She also developed utility agreement packages, provided utility coordination services, and engineering support during construction

**Ham Reid Road at LA 3092 (Lake Street) Intersection Improvements in Calcasieu Parish, LA:** Provided QA/QC for design of roadway improvements, drainage design and development of plans. This project involved the design of a roundabout intersection and associated drainage.

**LA 22 (Dalwill to Rodger Storm) Corridor Study (Contract No. 4400004064):** LA 22 Corridor Study Includes analysis of six roundabout geometry intersections. Project Engineer responsible for line and grade geometric alternatives and cost estimates supporting the study. / *Design Engineer*

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Jacob Thiaville, EI <i>Project Engineer</i>
<b>Project Assignment:</b>
Project Engineer
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
1 Year
<b>Education: Degree(s)/Year/Specialization:</b>
BS / 2022 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2023 / Engineer Intern - LA 35368
<p><b>Other experience and qualifications relevant to the proposed Project:</b>            Jacob recently joined our New Orleans office as an Engineer Intern working in our Transportation Department. Jacob was an intern in the Baton Rouge office from May 2022 through December 2022. After graduating in December from Louisiana State University with a Bachelor of Science in Civil Engineering, Jacob joined the firm on a full-time basis.</p>
<p><b>Related Experience</b></p> <p><b>East West Corridor Winfield Rd Ext.:</b> Created Concept Typical Sections, Created Templates to Run Model, Created Corridor and Surface, Set up Limits of Construction and Req'd ROW, Created Concept Plan/Profile Sheets and Cut Sheets, Created Traffic Graphics for ADT and Queue Lengths. TOOLS: Inroads SS2 Modeler (Create Template and Roadway Designer), Inroads Surface, Copying 1300x400' Clipping boundary and Trimming</p> <p><b>Iberia Parish Signing and Striping, Iberia Parish, LA:</b> Created CL Alignment, Completed all Regulatory Signing and Quantities Located all existing regulatory signs and determined if they needed to be relocated, removed or replaced. Determined Type and Size of Sign from MUTCD, Quantified all Regulatory Signs for Urban and Rural Areas. Tools: InRoads alignment tracking, Excel, MicroStation, MUTCD, Google Earth, LA Tax Assessor</p> <p><b>Downtown Connector-BR Sidewalk, Greenway, LA:</b> Quantities and Basic Drafting. Completed all quantities and summary sheets. Tools: InRoads alignment tracking, Excel, Google Earth</p> <p><b>LSU Lab School SRTS Sidewalk Project:</b> Quantities and Basic Drafting. Completed all quantities and summary sheets. Tools: InRoads alignment tracking, Excel, Google Earth</p>

## TEC Professional Services Questionnaire

**E Milton Ave Roundabout @ Chemin Metairie Rd, Youngsville, LA:** Inlet Spacing and Pipe System, Proposal RAB Layout (Transition Lengths), Utility Coordination, PP Drafting. Creating Drainage Areas in Cut and Fill, Finding Runoff Coefficients using the Rational method, designing pipe networks to accommodate constraints, Laid out a RAB to help with man hour estimate, created utility conflict matrix spreadsheet and proposed utility layout (plan) to show what utilities need to be relocated. Tools: InRoads ss10, RAB Layout Guide Sheet, AASHTO, DOTD Roadside Design Manual, HYDRWIN, Excel, Hydraulics Manual, Rational Method Spreadsheet.

**W Broussard Roundabout @ Duhon Rd, Lafayette, LA:** Inlet Spacing and Pipe System (1st Time), Basic Plan/Profile Drafting Including (focus on Inlet Spacing): CB-06, CB-08, low points, Stations, Drainage Areas, Same experience as E Milton Tools: InRoads ss10, HYDRWIN, Excel, Hydraulics Manual, Rational Method Spreadsheet

**Eden Isles Roadway, HWY 11 and Lakeview Dr:** Assisted with Proposal Design Alternatives. Assisted drafting 3 Alternative Designs with U Turn Bulb outs for PC and WB67 vehicles, Annotating the sheets for stage 0. Tools: InRoads ss2, DOTD Roadside Design Manual, AASHTO

**Chemin Metairie Pkwy @ Guillot Rd (Roundabout):** Basic Drafting, Sequence of Construction Temporary Signing and AutoTURN. Using MUTCD and standard plans to come up with temporary signing layout for construction phases, running AutoTURN with WB67 design vehicle through all the phases of construction. Tools: InRoads ss2 alignment tracking, MUTCD, LaDOTD Standard Plans, AutoTURN

**I-49 at Verot School Rd Interchange Design:** Completed Concrete Joint Layout for interstate ramps and turnouts, Used OpenRoads Sign CAD to create interstate guide signs. Tools: Openroads SignCAD, MUTCD, DOTD Sign Manual, SignCAD user guide, google earth, excel, La DOTD Standard plans

**LA 544 and I20 (Overpass Replacement 4 RAB):** Signing Quantities and Basic Drafting. Checking Sign Quantities and Basic Mark Ups, Project was near completion when I arrived Tools: InRoads ss2 alignment tracking, Excel, MicroStation, MUTCD

State of Louisiana

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Charles Adams, P.E., PTOE Senior Traffic Engineer
<b>Project Assignment:</b>
Senior Traffic Engineer
<b>Name of Firm with which associated:</b>
 <b>NEEL-SCHAFFER</b> <i>Solutions you can build upon</i>
<b>Years' experience with this Firm:</b>
18 Years (32 Total)
<b>Education: Degree(s)/Year/Specialization:</b>
BS / 1992 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
1997 / Professional Engineer – Civil, LA 27440
<p><b>Other experience and qualifications relevant to the proposed Project:</b></p> <p>Mr. Adams joined Neel-Schaffer in 2006 and has 30 years of experience in the areas of Traffic Operations, Traffic Safety, Traffic Signal Design, Construction Sequencing, ITS and Transportation Engineering.</p> <p>He manages a wide range of local and regional projects that vary in complexity from developing temporary traffic control plans for major construction projects and traffic signal timing plans to performing safety studies and traffic impact studies for both public and private clients.</p> <p>Prior to joining Neel-Schaffer, Mr. Adams was employed by the Louisiana Department of Transportation and Development (LaDOTD), where he served as the State Traffic Engineer. Mr. Adams has extensive experience with managing and developing plans for traffic signals and temporary traffic controls as well as performing corridor analyses and Stage 0 Traffic Studies. In addition, Mr. Adams has a very good working knowledge of the MUTCD and LaDOTD's policies and procedures.</p> <p>In addition, Mr. Adams has served as a technical member of the National Committee on Uniform Traffic Control Devices since 2002. As a member of the Temporary Traffic Control's technical committee, Mr. Adams helped develop traffic control plans used by the US Border Patrol for their interstate check points.</p> <p><b>RELATED EXPERIENCE</b></p> <p><b>Southcity Parkway Extension, Lafayette, LA:</b> This project will construct a new 1.7-mile, four-lane median divided corridor between US 167 (Johnston Street) with Kaliste Saloom Road. The roadway and drainage design is being completed in conformance with LADOTD guidelines. Includes five multi-lane roundabouts. Mr. Adams is providing the Traffic Control Plans.</p>

## TEC Professional Services Questionnaire

**US 71 Corridor Study, Bossier City, LA:** Senior Project Engineer. Neel-Schaffer performed a traffic study of the US 71 corridor from Barksdale Blvd to Curtis Sligo Road to evaluate existing conditions and make recommendations on median and drive-way closures in regards to the use of J-turns (7/13 – 9/15).

**US 165 Pedestrian Crossing, Richwood, LA:** Senior Project Engineer. Neel-Schaffer performed a pedestrian study along US 165 between the Ollie Burns Library and the Richwood High School. In addition to observing the corridor and documenting pedestrian counts, NS also analyzed the surrounding area to determine the most reasonable crossing location and explored several types of crossings.

**Intersection Safety Analysis, Monroe, LA:** Senior Project Engineer. Neel-Schaffer performed safety studies at several intersections throughout the City of Monroe. In addition to performing safety analysis, NSI also recommended geometric improvements and intersection control modifications.

**French Branch Bridge, W. Pearl River Bridge, Slidell, LA:** Senior Project Engineer. Neel-Schaffer developed temporary traffic control plans and modified sequence of construction plans for the I-10/I-12/I-59 interchange re-construction project.

**I-10 New Orleans Master Plan: Port Access Improvements, New Orleans, LA:** Senior Project Engineer. Neel-Schaffer performed a traffic study evaluating the truck access to and from the Port of New Orleans' uptown river terminal. This study not only analyzed existing port traffic, but also developed analyses and preliminary drawings to accommodate growth at the port to 1 million TEUs.

**Transportation Management Plan and Signal Design for the Walter O. Bigby Carriageway, Bossier City, LA:** Senior Project Engineer. Neel-Schaffer developed traffic signal plans for two intersections and created a Transportation Management Plan (TMP) for the extension of the Bossier Parkway.

**Tarbutton Road Interchange, Ruston, LA:** Senior Project Manager. Neel-Schaffer performed all necessary analyses for the proposed I-20 Interchange with Tarbutton Road for the City of Ruston, LA.

**LA 33 Roundabout Study, Ruston, LA:** Senior Project Manager. Neel-Schaffer provided a completed Traffic Study related to the proposed roundabouts at LA 33 and I-20 WB off-ramp and I-20 at the I-20 EB off-ramp.

## TEC Professional Services Questionnaire

<b>L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.</b>		
<b>PROJECT NO. 1</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Lower Ninth Ward, Northeast Group A</b> New Orleans, LA</p> <p>City of New Orleans Josh Hartley jwhartley@nola.gov 504.658.8000</p>	<p>Neel-Schaffer provided engineering services for the design, bidding, construction administration and resident inspection to repair and rehabilitate 82 blocks in the Lower Ninth Ward Neighborhood. This street rehabilitation project was part of the wave one Joint Infrastructure Recovery Roads program which is a comprehensive recovery strategy to repair Hurricane Katrina related damages on and beneath city managed streets throughout New Orleans. As the design consultant for the Department of Public Works, NSI coordinated with both the Sewerage and Water Board and FEMA throughout the scoping and design process. Neel-Schaffer's DBE subconsultants provided scoping, field reconnaissance and construction management services. The scoping phase of this project included determining FEMA eligible damages as a result from Hurricane Katrina. This street rehabilitation project included concrete pavement restoration, milling and overlaying asphalt streets, drainage structure improvements, water line leak detection and point repairs, handicap ramp improvements, and sidewalk and driveway improvements.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019	\$941	65%

<b>PROJECT NO. 2</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>East Mandeville Bypass</b> Mandeville LA</p> <p>St. Tammany Parish Laura B. Gatlin (985) 898-2557 lcbeach@stpgov.org</p>	<p>Neel-Schaffer is leading the environmental planning for the project which includes analysis of potential wetlands and potential impacts to a Threatened and Endangered species, the Red Cockaded Woodpecker as well as permitting as may be required.</p> <p>Neel-Schaffer is also managing the public involvement, developing traffic forecasts, providing traffic analysis and providing design services for concept routes and final design and construction services, all in partnership with another firm. The project includes roundabout intersections at connecting state routes as well as a pedestrian and bicycle path integral with the route design.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2022	\$28,000,000	50%

## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility</b>	
<p><b>LA 1026 (Juban Rd) Widening (I-12 to US 190)</b> Livingston Parish, LA</p> <p>Livingston Parish/DOTD Peggy Paine, P.E. 225-379-1065 peggy.paine@LA.GOV</p>	<p>Neel-Schaffer completed the preliminary and final design for this project. The project will widen the existing LA 1026 (Juban Road) from an existing two-lane road with ditches to a four-lane median divided roadway with storm sewer drainage system and 10-foot-wide side paths on both sides of the corridor and include two frontage roadways. Three roundabouts are proposed as part of this project. One multi-lane roundabout at the intersection of La 1026 (Juban Road)/US 190 (Florida Blvd), one at the intersection of LA 1026 (Juban Road) and the new frontage roadways, and one near the Juban Crossing Development. This project begins north of the LA 1026 (Juban Road) and the I-12 interchange and ends near the intersection of Juban Road and Florida Blvd. The various Tasks to performed under this Stage 3 Design Contract are as follows:</p> <p>Part I: Surveying Services                      Part II: R/W Acquisition and Utility Relocation Part III: Preliminary Plans                      Part IV: Final Plans Part VI: Inspection Services                      Part VII: Construction Proposal</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019	\$25,000,000	100%

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>DeSaix Bridge</b> New Orleans, LA</p> <p>City of New Orleans, Department of Public Works Josh Scott, P.E. 504-658-8000 Josh.scott@nola.gov</p>	<p>NSI is providing engineering services for the design, bidding and construction administration to replace this existing bridge over Bayou St. John. NSI is providing a pre-stressed slab span bridge providing a wider bridge with increased clearance and longer spans than the typical bridges. Precast fascia panels are being designed to provide arches like the existing bridge and decorative lighting is included at the request of the Park and neighborhood association.</p> <p>In addition to design, bid phase services and construction administration, this project includes topographic survey and geotechnical engineering. The project also includes the relocation of S&amp;WB high voltage feeder lines that serve drainage pumping stations. This work is being closely coordinated with the S&amp;WB's Electrical Engineering Department to assure no interruptions in power supply. Contract documents include the City of New Orleans Department of Public Works Standard specification along with technical sections from the Louisiana Standard Specifications for Roads and Bridges for the specialty items related to bridge construction.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2021	\$150,000	100%

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Lower Ninth Ward, Northeast Group B</b> New Orleans, LA</p> <p>City of New Orleans Josh Hartley jwhartley@nola.gov 504.658.8000</p>	<p>Neel-Schaffer is providing engineering services for the design, bidding, construction administration and resident inspection to reconstruct 24 blocks in the Lower Ninth Ward Neighborhood. This full reconstruction project is part of the Joint Infrastructure Recovery Roads program and is a comprehensive recovery strategy to repair Hurricane Katrina related damages on and beneath city managed streets throughout New Orleans. As the design consultant for the Department of Public Works, NSI coordinated with both the Sewerage and Water Board and their consultant throughout the design process and construction. This full reconstruction includes full depth roadway construction, drainage replacement and improvements, water line replacement, sewer line repairs, handicap ramp improvements, sidewalk and driveway improvements, and drain line inspection and cleaning. The contract documents included the City of New Orleans Department of Public Works General Specifications for Street Paving along with the Sewerage and Water Boards General Specifications.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
Ongoing	\$674,000	65%

<b>PROJECT NO. 6</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>LA 1088 Corridor Study</b> ST Tammany Parish, LA</p> <p>LADOTD Jody Colvin, P.E. 225-242-4635 jody.colvin@la.gov</p>	<p>Neel-Schaffer performed a corridor study along LA 1088 from LA 59 to the I-12 westbound ramps, a distance of approximately 3.5 miles. The study included a development of various geometric alternatives within the LA 1088 corridor under study to improve corridor mobility and safety. Both roundabout and traditional signalized intersections were studied. The alternatives also provided sidewalks or shared-use path throughout the corridor.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2015	\$200,000 (fee)	100%

## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>LA 49 (Williams Blvd) Feasibility Study</b> Kenner, LA</p> <p>LADOTD/New Orleans RPC April Renard 225.379.1919 April.renard@la.gov</p>	<p><b>Neel-Schaffer</b> was tasked with developing a feasibility report for safety improvements along LA 49 (Williams Blvd.) between Airline Dr. and 32<sup>nd</sup> St., just north of I-10 in Kenner. The study considered the existing five lane geometry, existing bike and pedestrian flows, and the existing vehicle traffic flows.</p> <p>The Scope included: existing / future traffic analysis, existing / future safety analysis, development of alternative concepts / cost estimates, benefit / cost analysis, and a Stage 0 Report.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2015	\$431,000 (fee)	100%

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>US 190 Access Management Stage O and Traffic Study</b> Mandeville, LA</p> <p>City of Mandeville Keith LaGrange klagrang@cityofmandeville.com 985-626-3144</p>	<p>The scope of the subject project is to improve the safety and aesthetics along US 190 between Carondelet St. and Jackson Ave as well as to provide for smoother flow of traffic through the area. NSI will prepare a Stage O Feasibility Study in accordance with the LADOTD Guidelines. This study will identify any safety and /or operational issues along 1.45 miles of US 190 (East Causeway Approach to Clausel) in St. Tammany Parish in existing and future conditions and will evaluate reasonable alternatives to enhance safety and mobility. The Stage O Feasibility Study shall examine concepts that will improve the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management and complete streets. Alternative concepts shall be developed in sufficient detail to determine geometric feasibility of the proposed improvements and anticipated right-of-way needs.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2023	\$400,000	100%

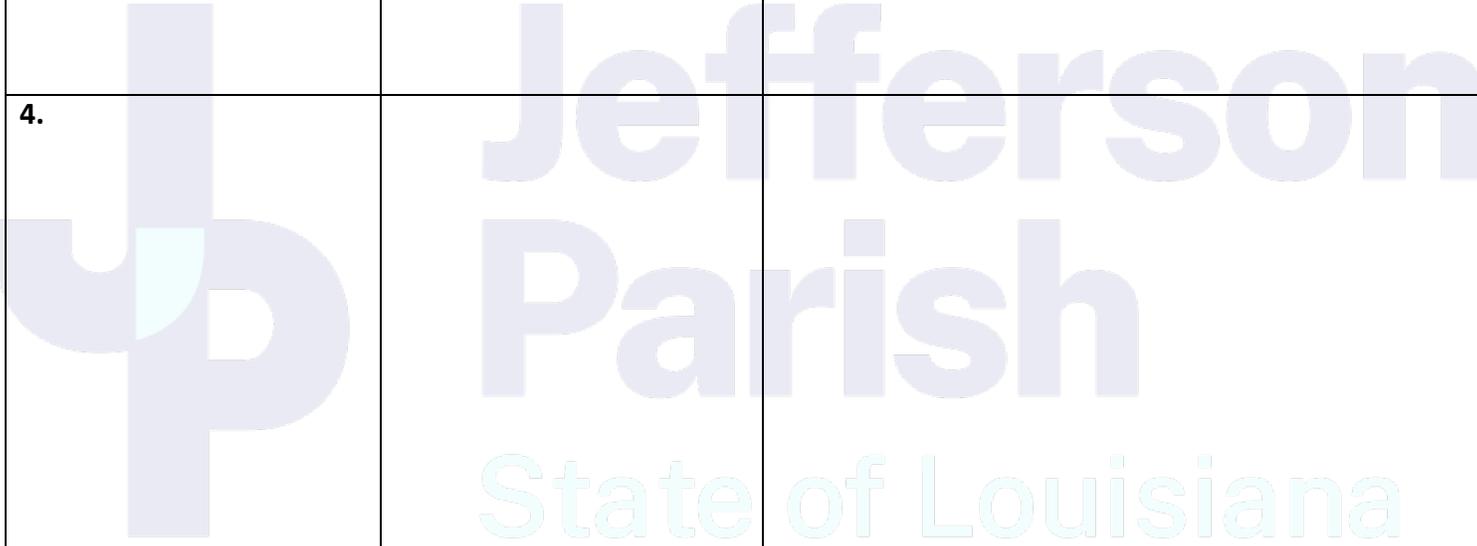
## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Roads Program - West End Group G</b> New Orleans, LA  City of New Orleans, Department of Public Works Mohanad Abdelfattah 504-658-8037 Mohanad.Abdelfattah@nola.gov	This restoration project includes the design and full reconstruction of six New Orleans residential blocks in the West End Neighborhood. The full reconstruction consists of replacement of the drainage network, water and sanitary sewer replacement, and full roadway restoration. Neel-Schaffer serves as the prime consultant where we lead several sub-consultants during the surveying and design phases of the project. Design services involved using computer-aided design (CAD) software to layout the proposed roadway restoration and subsurface utilities. Drainage calculations were performed to model the project area during a 10-yr storm and subsurface drainage features were then designed to improve drainage. Pedestrian accessibility was also a focus during design where connective sidewalks and handicap (ADA) ramps were added throughout the project.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2023	3,250,000	100%

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Earhart Expressway Master Plan</b> Jefferson and Orleans Parishes  LADOTD Hong Zhang, PE, PTOE, PhD 225-379-1421 Hong.zhang@la.gov	This project is in Jefferson and Orleans Parishes between the New Orleans International Airport and the CBD. Neel-Schaffer is reviewing past and existing projects, evaluating their impacts, cost and traffic. Based on this evaluation, Neel-Schaffer, Inc. has identified which projects will be retained and incorporated into the Earhart Expressway Masterplan. Neel-Schaffer, Inc. has completed layouts of the identified improvements on base maps, and is currently prioritizing the projects based on cost, benefits, and impacts. The findings of this project will be presented in a report. These tasks are being completed with coordination and the input from LADOTD, the RPC and Jefferson Parish.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2022	\$60,000	100%

**TEC Professional Services Questionnaire**

<b>M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.</b>		
<b>Parties:</b>		<b>Status/Result of Case:</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
<b>1.</b> <b>NONE</b>		
<b>2.</b>		
<b>3.</b>		
<b>4.</b>		



## TEC Professional Services Questionnaire

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



37 Offices | 9 States



Neel-Schaffer is a multi-disciplined engineering and planning firm that was founded in 1983 and today is one of the largest private, employee-owned firms in the South, with nearly 500 employees working out of 37 offices across nine states. A multi-disciplined engineering and planning firm, it encompasses a group of specialized companies with offices in Louisiana, Mississippi, Alabama, Florida, Georgia, Kentucky, Tennessee, and Texas. We provide engineering, emergency management, landscape architecture, environmental, surveying, geotechnical, strategic planning, and community development services to clients throughout the Southeast and Southwest.

Engineering News-Record has listed Neel-Schaffer among the Top 500 Design Firms in the United States annually since 1994, ranking 202 in 2024. Our corporate structure emphasizes local service, with a regional touch. It allows our engineers, geologists, biologists, technicians, and project managers to maintain deeply local connections with clients in the many communities we serve, while having the resources of a much larger regional firm at their disposal. This allows us to provide a full-service approach to program development, design, and construction management for your project.

### PROFESSIONAL TRAINING AND EXPERIENCE

Neel-Schaffer provides comprehensive flood plain management, hydraulic and hydrologic engineering and modeling, coastal, flood protection, and drainage planning and engineering services throughout Southeastern United States. We are nationally recognized for excellence in water resources engineering, flood control, planning, and environmental analysis. Our combined multi-disciplinary capabilities enable us to analyze and categorize floodplain and coastal problems, suggest and evaluate alternative solutions, engage with the public and all project stakeholders to ensure the desired results, determine environmental and socioeconomic effects, recommend a course of action which best meets the needs of both the natural and human environments, and ultimately design, administer and monitor solutions to the problems.

Our water resources staff includes engineers, planners, environmental specialists, economists, scientists, and GIS specialists who effectively solve floodplain challenges for a variety of federal, state, municipal and private clients.

With a strong local presence, represented by Louisiana offices in Mandeville, Baton Rouge, New Orleans, and Lafayette our firm knows the local market and the expectations of the community for which we live and work.

Neel-Schaffer is proficient and experienced in a variety of water resources projects. Our firm has provided local, state and federal agencies with the expertise and experience in flood plain management, flood control, storm water management/modeling studies, hydrologic and hydraulic (H&H) analyses, and Flood Insurance study updates and map revisions. In the last 30 years, we've built on this experience by investing heavily in talented professionals who are well-versed in H&H modeling, analyses, engineering and design. All of this allows us to deliver innovative studies and plans that reflect state-of-the-art practices and meet the needs of the communities we serve.

## TEC Professional Services Questionnaire

*Stormwater management carries complex planning and funding challenges for municipalities. Our experts are very familiar with various storm water funding sources and grant mechanisms. Neel-Schaffer has developed and utilized unique approaches for gaining public and political support for storm water initiatives such as user fee implementation and use of low impact and green infrastructure practices for new and significant redevelopment.*

### KEY PERSONNEL

- **Dishili Young, PE, PTOE** offers over 20 years of progressive experience which includes program management, engineering management, project management and engineering design. She has served as St. Charles Parish Program Manager for the department of Public Works and Wastewater and continues to provide services as a consultant to local municipal clients and States. Her experience includes interstate design-build projects, road design projects, environmental studies, and feasibility Studies. She has assisted with the conceptual design development, public outreach, and sections of the environmental document for environmental assessments and environmental impact statements. She has experience in bridge scour analysis and drainage design, and cost estimating. She has experience working on FEMA projects which include activities such as cost-benefit analysis for Hazard Mitigation Grant Program grant applications, site evaluations for damages due to flooding, scope development and funding of flood damaged roadways, and culverts. In addition, she has assisted with similar FEMA work for bridges. Mrs. Young is experienced in HEC-RAS, Autodesk Storm and Sanitary Sewer, InRoads XM, MicroStation V8, Civil 3D 2012 and AutoCad 2012.
- **Nick Ferlito, Jr, PE, PTOE** Mr. Ferlito has over 25 years of consulting experience in the areas of traffic and transportation engineering. Mr. Ferlito serves as a project manager for local and regional traffic impact studies, intersection studies, corridor studies, signal timing studies, warrants analysis, traffic signal inventories, signal design projects and other traffic engineering projects, as well as Environmental Assessment studies, Stage 0 studies, safety studies and related projects for both public and private projects. He is experienced with numerous traffic engineering software packages include HCS, CORSIM, SYNCHRO, Tru-Traffic (TSPPDraft), and SIDRA. Mr. Ferlito is a certified Professional Traffic Operations Engineer (PTOE) and has completed the NEPA and Transportation Decision Making course as well as the Highway Safety Manual Workshop.
- **Don Lancaster, P.E.**, is the Civil Design Manager for Neel-Schaffer's Louisiana. He has over nearly 40 years of experience in civil engineering and project management and has coordinated with many Louisiana agencies including the Sewerage and Water Board of New Orleans, the USACE New Orleans District, the Louisiana Department of Transportation and Development, the New Orleans Levee District and several cities and parishes providing roadway assessments, roadway and sidewalk repairs and improvements, flood protection, sewer system rehabilitation, permit application, and drainage improvements. Mr. Lancaster offers his clients a wide range of design and project management experience leading to improved quality in the overall project.
- **Charles Adams, P.E., PTOE** has 30 years of experience. Prior to joining Neel-Schaffer, Inc. in 2006, Mr. Adams was employed by the Louisiana Department of Transportation and Development (LADOTD) where he served as the State Traffic Engineer. While at DOTD, he designed numerous solutions for abnormal accident locations, oversaw the development of the Department's Signal Design Manual, re-designed the Department's Temporary Traffic Control Details, oversaw the re-design of the Department's Traffic Signal and Installation Details and assisted in the development of the Department's training course for the Proper use of Work Zones.

### CAPACITY FOR TIMELY COMPLETION

Neel-Schaffer has a current monthly billing capacity in excess of \$5 million. As the following chart indicates, we can easily assimilate additional projects into our current workload.

## **TEC Professional Services Questionnaire**

### **PAST PERFORMANCE**

In its performance rating of Neel-Schaffer, the US Army Corps of Engineers, Vicksburg District, concluded that we “consistently produced well organized, well-engineered, professional work.” The rating also noted “their engineers and managers were a pleasure to work with. Their spirit of cooperation was a major asset to the contract. They not only met the specifics of their work orders but also were anxious to meet any reasonable desires of the Government representatives. This was especially noteworthy in maintaining milestone dates when government-furnished data was not available when specified and by beating several of their submission dates. Neel-Schaffer, Inc. is highly recommended for future work...”

In addition, NSI has been selected repeatedly by LADOTD for on-going retainer contracts over the past 12 years. We think this is an excellent indication of our performance ability on public contracts and our reputation as a consultant of choice by public agencies. We are currently working under three active retainer contracts with LADOTD. We also hold a retainer contract with the City of New Orleans Department of Public Works, The Sewerage and Water Board of New Orleans, the CPRA to provide Engineering Services for Coastal Restoration Projects, the Lafayette MPO to provide Roundabout Feasibility Studies, and Ascension Parish in support of their MOVE Ascension transportation program.

To continue improving our services, Neel-Schaffer recently surveyed our clients. We received over 100 responses to our survey involving mostly public clients and were pleased to find that the vast majority are satisfied with our commitment and performance and will more than likely retain our company again. Below is a summary:

- 92% are “likely” or “very likely” to recommend Neel-Schaffer
- 94% rated Neel-Schaffer as “easy” or “very easy” to do business with
- 95% are “satisfied” or “very satisfied” that Neel-Schaffer’s deliverables meet your needs
- 96% are “satisfied” or “very satisfied” with Neel-Schaffer’s project management capabilities
- 91% rated the overall value you receive from Neel-Schaffer as “good” or “very good”

### **LOCATION OF PRINCIPLE OFFICE**

Our New Orleans LA office, located at 1340 Poydras Street, Suite 1950 will undertake the design for required improvements with support provided by other Neel-Schaffer offices as required.

### **ANALYSIS OF WORK RESULTING IN LITIGATION**

Neel-Schaffer has not previously worked for Jefferson Parish; and we have never entered litigation with Jefferson Parish or other public sector clients.

### **PRIOR SUCCESSFUL COMPLETION OF PROJECTS**

NSI employs a highly qualified team of professionals skilled in a variety of coastal science and coastal engineering disciplines. This multi-disciplinary approach allows for a more holistic blend of experience and services to meet every client’s coastal needs.

Our local presence ensures our work is informed and coordinated with the issues, governance, and opportunities unique to that region. As a result, we have been able to form effective partnerships with government agencies, non-profits, and other private companies, administering coastal initiatives to meet their needs and those of communities.

Neel-Schaffer routinely provides services on an *on-call* basis for our clients. We currently are providing services to CPRA for a three-year multiple task order award contract. We also hold four on-call contracts with LADOTD to provide various services. Our St. Tammany Coastal Master Plan is performed as a Task Order contract and most of our work on Corps of Engineers projects has been performed under task order contracts.

**TEC Professional Services Questionnaire**

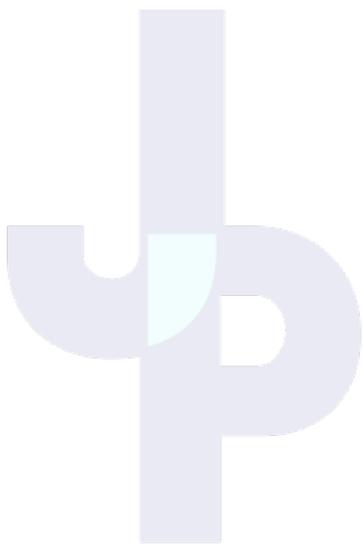
1. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: 

Print Name: Nick Ferlito, Jr, PE, PTOE

Title: Senior Vice President / Louisiana Area Manager

Date: July 16, 2024



Jefferson  
Parish  
State of Louisiana

## TEC Professional Services Questionnaire

**A. Project Name and Advertisement Resolution Number:**

Provision of Routine Engineering Services for  
**Streets Projects in Jefferson Parish**  
 SOQ **24-021** | Resolution No. **144319**

**B. Firm Name & Address:**



**BFM Corporation, LLC**  
 15 Veterans Memorial Boulevard | Kenner LA 70062

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

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

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

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

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

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

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

**If marked “no”, skip to Section I. If marked “yes”, complete Sections G-H.**

## TEC Professional Services Questionnaire

<b>G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.</b>		
1. <span style="margin-left: 40px;">N/A</span>		
2.		
<b>H. Has this JOINT-VENTURE previously worked together? Please check:</b> YES _____ NO _____ N/A		
<b>I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.</b>		
Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. <span style="margin-left: 40px;">N/A</span>		
2.		
3.		
<b>J. Please specify the total number of support personnel that may assist in the completion of the Project:</b> <span style="margin-left: 40px;"><u>26</u> (all personnel will be available for assignment to the project)</span>		



## TEC Professional Services Questionnaire

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

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

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

- West Esplanade Avenue U-Turn at Bonnabel Canal, Metairie, Jefferson Parish, LA
- Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA
- Lapalco Boulevard Survey Update, Jefferson Parish, LA
- West Napoleon Avenue Extension (Highway Park Subdivision), Jefferson Parish, LA
- Bonnabel Boulevard Bike Path, Metairie, Jefferson Parish, LA
- Lapalco Boulevard Bridge at Harvey Canal, Jefferson Parish, LA
- Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA
- Baratavia Boulevard Right Turn Lane, Jefferson Parish, LA
- Hollygrove Group E (RR065) Route Topographic Survey, Jefferson Parish, LA
- Veterans Memorial Boulevard Route Topographic Survey, Jefferson Parish, LA
- Medical Center Boulevard Lighting, Marrero, Jefferson Parish, LA
- Jefferson Highway to Charlotte Drive Route Topographic Survey, River Ridge, Jefferson Parish, LA
- Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA
- Soniat Canal Timber Bulkhead Replacement Route Topographic Survey, Jefferson Parish, LA
- Highway 90 Route Topographic Survey, Jefferson Parish, LA
- Bissonet Plaza Drainage Improvements (Phase 1, Elmwood & Craig Ave), Jefferson Parish, LA
- Transcontinental Drive (North Bound; W. Metairie to Veterans), Metairie, Jefferson Parish, LA
- Earhart Expressway - Proposed Lead Street On/Off Ramps, Jefferson Parish, LA
- Latigue Road Extension, Supplemental Services, Jefferson Parish, LA
- Destrehan Avenue Bike Path (Patriot Street to Chadwood Drive), Harvey, Jefferson Parish, LA
- Metairie Road Smart Growth: Causeway Boulevard and Metairie Road, Metairie, Jefferson Parish, LA
- Ames Boulevard Rehabilitation, Jefferson Parish, LA
- Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA
- Power Boulevard at Vintage Drive, Kenner, Jefferson Parish, LA
- L&A Road Revision Survey, Jefferson Parish, LA
- Green Acres Road, Metairie, Jefferson Parish, LA
- Veterans Memorial Boulevard - Westbound, Jefferson Parish, LA

## TEC Professional Services Questionnaire

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

- Manhattan Boulevard Widening, Harvey, Jefferson Parish, LA
- Hector Avenue Route Topographic Survey, Gretna, Jefferson Parish, LA
- Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA
- Little Farms Avenue, Jefferson Parish, LA
- David Drive Corridor Project, Metairie, Jefferson Parish, LA
- Latigue Road Extension, Jefferson Parish, LA
- Bissonet Plaza Project Surveying, Metairie, Jefferson Parish, LA
- 11th Street Rehabilitation, Harvey, Jefferson Parish, LA
- Harvey Canal Subdivision Drainage Project, Harvey, Jefferson Parish, LA
- Lapalco Boulevard Turn Lane (Lapalco Boulevard at Barataria Boulevard), Jefferson Parish, LA
- Lift Station No. 6 Improvements, City of Harahan, Jefferson Parish, LA
- Barataria Boulevard Turn Lane Project, Marrero, Jefferson Parish, LA
- Kenner Marketplace Survey Update, City of Kenner, LA
- South Jamie Boulevard, Avondale, Jefferson Parish, LA
- Route Topographic Surveying for Multiple Streets (VFW Area), City of Harahan, Jefferson Parish, LA
- David Drive Corridor, Jefferson Parish, LA
- Mounes Street Subsurface Drainage (Phase IV, Dickory to Elmwood Park), Jefferson Parish, LA
- Metairie Road & Johnson Street, Route Topographic Survey, Jefferson Parish, LA
- Cleary Avenue Survey Checks, Metairie, Jefferson Parish, LA
- Walter Road at Melrose Avenue, River Ridge, Jefferson Parish, LA
- 25th Street & Adjacent Canal, Gretna, Jefferson Parish, LA
- Causeway Boulevard Overpass at Airline Highway (Phase 5), Metairie, Jefferson Parish, LA
- Lapalco Boulevard Survey Update, Jefferson Parish, LA
- Earhart Expressway Roadway Light Improvements, Jefferson Parish, LA
- Labarre Road Railroad Crossing, Metairie, Jefferson Parish, LA
- Citrus Road Project, Route Topographic Survey, River Ridge, Jefferson Parish, LA
- DOTD H.008068, Peters Road Bridge and Extension Project (Phase 2), Jefferson Parish, LA
- Veterans Memorial Boulevard/Power Boulevard at the Soniat Canal, Jefferson Parish, LA
- Veterans Boulevard RTA Multi-Use Trail, Jefferson Parish, LA
- Airline Overpass Rehabilitation, Phase 2, Jefferson Parish, LA
- Citrus Boulevard Improvements (Dickory Ave to Elmwood Park Blvd), Metairie, Jefferson Parish, LA
- Severn Avenue (Veterans Boulevard to West Esplanade), Metairie, Jefferson Parish, LA
- Airline Drive at Clearview Parkway/Zinnia Ave. to Houma Blvd., Jefferson Parish, LA
- Franklin Avenue (Gretna) Right-of-Way Boundary Survey, Gretna, Jefferson Parish, LA

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<p><b>Chad M. Poché, P.E.</b>                  Executive Vice President / Registered Professional Geotechnical Engineer</p>	
<b>Project Assignment:</b>	
Engineering Liaison	
<b>Name of Firm with which associated:</b>	
	
<b>Years' experience with this Firm:</b>	
7 years (became partial owner of BFM in 2017); 31 years total (1993)	<i>BFM Corporation, LLC   2017 to present</i> <i>Gulf South Engineering and Testing, Inc.   2011 to present</i> <i>Ardaman and Associates, Inc.   2007 to 2011</i> <i>Eustis Engineering   1996 to 2001</i> <i>Soil Testing Engineers, Inc.   1993 to 1996</i>
<b>Education: Degree(s)/Year/Specialization:</b>	
M.S., 1998, Civil Engineering, University of New Orleans B.S., 1993, Civil Engineering, Louisiana State University	
<b>Active Registration: Year first registered/discipline:</b>	
1998, Civil Engineer (Louisiana No. 27667) 2002, Civil Engineer (Mississippi No. 15405)	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Chad M. Poché, P.E. is an Executive Vice President with (and partial owner of) BFM Corporation, LLC, and a co-founder of BFM's sister company, Gulf South Engineering and Testing, Inc. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.</p> <p>Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility permitting; managing personnel and office operations, and; serving as an Expert Witness. Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.</p>	

## TEC Professional Services Questionnaire

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

**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 & hydrographic 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. (\$478,744 (fee); 2020)

**West Esplanade Avenue U-Turn at Bonnabel Canal, Metairie, Jefferson Parish, LA.** BFM provided topographic and right-of-way (R/W) surveying services for the project. Scope included establishing a baseline, two Temporary Benchmarks (TBM), and spot elevations. BFM also located property corners to establish the rights-of-way and property ownership. The survey located existing improvements, utilities, and pipes (drainage, water, sewerage). Project deliverables included physical & digital files as well as a Three-Point Tie Worksheet. (\$11,310 (fee); 2024)

**Mounes Drive (Dickory to Elmwood Park), Jefferson Parish, LA.** BFM provided a topographic survey for the Mounes Drive project, extending from Dickory to Elmwood Park Boulevard. The scope of services included establishing baseline, temporary benchmarks, and elevations, as well as boundary corners. Plotting of improvements and utility elements (sewer, water, drainage, etc.) was also included. (\$88,930 (fee); 2017)

**Ames Boulevard Rehabilitation, Jefferson Parish, LA.** BFM executed a Route Topographic Survey (RTS); the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area included Ames Boulevard from the apparent right-of-way (R/W) at Lapalco Boulevard to the apparent R/W north of Happy Street; approximately 4,800 linear feet. (\$82,500 (fee); 2019)

**Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA.** BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years. (\$77,733 (fee); 2018)

**Transcontinental Drive (North Bound; W. Metairie Avenue to Veterans Boulevard), Metairie, Jefferson Parish, LA.** BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$59,630 (fee); 2020)

**Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA.** BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<p><b>Gary J. Lambert, Jr., PLS</b>                  Vice President / Registered Professional Land Surveyor</p>	
<b>Project Assignment:</b>	
Project Manager/Drafting Supervisor	
<b>Name of Firm with which associated:</b>	
	
<b>Years' experience with this Firm:</b>	
6 years (joined BFM in 2018); 13 years total (2011)	<i>BFM Corporation, LLC   2018 to present</i> <i>Riverlands Surveying   2016 to 2018</i> <i>Bertucci Contracting   2011 to 2016</i>
<b>Education: Degree(s)/Year/Specialization:</b>	
B.S., 2018, Geomatics, Nicholls State University B.S., 2014, Construction Management, Louisiana State University	
<b>Active Registration: Year first registered/discipline:</b>	
2021, Professional Land Surveyor (Louisiana No. 5929)	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Gary J. Lambert, Jr., is a registered Professional Land Surveyor in Louisiana and provides Project Management and Drafting Oversight for BFM Corporation. He is the first point of contact for clients on technical matters, scheduling, and deliverables for project work, and conducts meetings with engineering, architectural, and government officials to discuss various project needs. His project work has encompassed all manner of surveying services, from basic home lots to 100+ acre tract boundary surveys.</p> <p>In the field, Mr. Lambert has provided services as a Survey Crew Chief, using both traditional and robotic surveying methods, since the start of his professional career, and has experience with Leica, Hypack, AutoCAD, AutoCAD 3D, Trimble, and RTK surveying technologies. He further trains employees in the use of an aerial drone, laser scanner, and remote-controlled hydrographic survey boat. This survey experience includes topographic, boundary, ALTA/NSPS, FEMA, and various construction surveying. Mr. Lambert has also conducted hydrographic surveys in the Mississippi River and various other bodies of water throughout the Gulf Coast area.</p> <p>Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).</p>	

## TEC Professional Services Questionnaire

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

**West Esplanade Avenue U-Turn at Bonnabel Canal, Metairie, Jefferson Parish, LA.** BFM provided topographic and right-of-way (R/W) surveying services for the project located in Metairie. The scope of services included establishing a baseline, two Temporary Benchmarks (TBM), and spot elevations. BFM also located property corners to establish the rights-of-way and property ownership. The survey located existing improvements, utilities, and pipes (drainage, water, sewerage). Project deliverables included physical & digital files as well as a Three-Point Tie Worksheet. (\$11,310 (fee); 2024)

**Lapalco Boulevard Survey Update, Jefferson Parish, LA.** BFM prepared a Site Specific Update Survey for the Lapalco Boulevard project, which built on previous BFM surveys for the location. The field survey recovered and verified the horizontal and vertical control (from previous BFM projects noted). Spot elevations were taken; existing improvements within the designated Limits of Survey were noted. The survey also located utilities, pipes (drainage, water, sewerage), and trees. For the update, BFM specifically located newly-installed steel power poles and steel transmission towers, as well as the structures fronting along Lapalco Boulevard. Project deliverables included comprehensive/updated physical and digital files combining all new & previous survey data. (\$20,480 (fee); 2021)

**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)

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

**Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA.** BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)

**David Drive Corridor Project, Metairie, Jefferson Parish, LA.** BFM executed a right-of-way service for this phase of the David Drive Corridor project. BFM has also provided surveying for other elements of the project, including a Route Topographic Survey. (\$3,971 (fee); 2018)

## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

**Name & Title:**

**Christopher Lemley**  
Field Operations Manager/Survey Crew Chief

**Project Assignment:**

Field Operations Manager/Survey Crew Chief

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years' experience with this Firm:**

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

**Education: Degree(s)/Year/Specialization:**

*High School Diploma*

**Active Registration: Year first registered/discipline:**

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

**Other experience and qualifications relevant to the proposed Project:**

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

**Citrus Boulevard Improvements, Jefferson Parish, LA.** The project involved an Additional Route Topographic Survey; BFM provided surveying services for the Citrus Boulevard Improvements project, which extended from Dickory Avenue to Elmwood Park Boulevard. (\$7,085 (fee); 2017)

**Causeway Boulevard Overpass at Airline Highway (Phase 5), Metairie, Jefferson Parish, LA.** BFM's surveying services involved the preparation of a Route Topographic Survey (FEMA) for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$41,135 (fee); 2017)

## TEC Professional Services Questionnaire

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

**Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA.** BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)

**Manhattan Boulevard Widening, Harvey, Jefferson Parish, LA.** BFM executed boundary and Right-of-Way takings surveying services for Manhattan Boulevard's southbound lanes, from the West Bank Expressway to Gretna Boulevard. (\$21,150 (fee); 2018)

**Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA.** BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)

**David Drive Corridor Project, Metairie, Jefferson Parish, LA.** BFM executed a right-of-way service for this phase of the David Drive Corridor project. BFM has also provided surveying for other elements of the project, including a Route Topographic Survey. (\$3,971 (fee); 2018)

**Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA.** BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years. (\$77,733 (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 & hydrographic 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. (\$478,744 (fee); 2020)

**Richard Street Surveys, Gretna, Jefferson Parish, LA.** BFM provided surveying services to recover temporary benchmarks (TBMs) at Richard Street, and re-establish vertical TBM control for the Fourth Street Extension. (\$4,520 (fee); 2016)

**Latigue Road Extension, Jefferson Parish, LA.** BFM executed surveying services related to the Latigue Road Extension project; this included surveying for a right-of-way acquisition. This was phase I of the project for the proposed extension from Foundry Road to Live Oak Boulevard. (\$8,896 (fee); 2015)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<p><b>John Philip Thayer</b>                  Procurement Director (Proposals &amp; Project Management Support)</p>	
<b>Project Assignment:</b>	
Project Management Support	
<b>Name of Firm with which associated:</b>	
	
<b>Years' experience with this Firm:</b>	
16 years (joined BFM in 2008); 17 years total (2007)	<i>BFM Corporation, LLC   2008 to present</i> <i>Delle Land Surveying   2007 to 2008</i>
<b>Education: Degree(s)/Year/Specialization:</b>	
Certificate, 2015, Land Surveying Services B.S., 2007, Physical Education, Trevecca Nazarene University	
<b>Active Registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Phil Thayer serves as BFM's Procurement Director, providing proposal preparation and Project Management Support, having considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.</p> <p><b>Hector Avenue Route Topographic Survey, Gretna, Jefferson Parish, LA.</b> BFM provided Route Topographic Surveying services for the project; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$29,240 (fee); 2018)</p> <p><b>Little Farms Avenue, Jefferson Parish, LA.</b> BFM executed a Route Topographic Survey of Little Farms Avenue, from the Jefferson Avenue intersection to the Airline Drive Intersection. The full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$48,054 (fee); 2018)</p> <p><b>Route Topographic Surveying for Multiple Streets (VFW Area), City of Harahan, Jefferson Parish, LA.</b> BFM provided Route Topographic Surveying for roadway repair areas in the VFW Area in Harahan; street locations included portions of Kielman Street, VFW Boulevard, Marquette Street, &amp; Prados Street. The work involved the preparation of a Route Topographic Survey for each project; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$11,260 (fee); 2018)</p>	

## TEC Professional Services Questionnaire

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

**David Drive Corridor, Jefferson Parish, LA.** Continuation of a previous Route Topographic Survey project, the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Part of Jefferson Parish PW No. 2013-026-RB. (\$11,285 (fee); 2018)

**Metairie Road & Johnson Street – Route Topographic Survey, Jefferson Parish, LA.** BFM's survey work involved the preparation of a Route Topographic Survey (FEMA) for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$11,955 (fee); 2017)

**Causeway Boulevard Overpass at Airline Highway (Phase 5), Metairie, Jefferson Parish, LA.** BFM's surveying services involved the preparation of a Route Topographic Survey (FEMA) for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$41,135 (fee); 2017)

**Veterans Memorial Boulevard, Clearview Parkway to Severn Avenue, Jefferson Parish, LA.** BFM provided topographic surveying services for the project, which encompassed approximately 8300 linear feet of Veterans Memorial Boulevard. This included median crossing (e.g., U-turns) and runs between Clearview Boulevard and Severn Avenue. (\$31,384 (fee); 2016)

**Latigue Road Extension, Jefferson Parish, LA.** BFM executed surveying services related to the Latigue Road Extension project; this included surveying for a right-of-way acquisition. This was phase I of the project for the proposed extension from Foundry Road to Live Oak Boulevard. (\$8,896 (fee); 2015)

**Westwood Drive Rehabilitation, West Bank Expressway to Lapaclo Boulevard, Jefferson Parish, LA.** BFM provided topographic surveying services from right-of-way to right-of-way, median, roadway, sidewalks, subsurface utilities, and cross-sections. (\$50,770 (fee); 2014)

**MacArthur Drive Interchange Improvements – Phase 1B, US 90 B/ I-910, Jefferson Parish, LA.** BFM provided baseline control and additional topographic survey for revised alignment of proposed interchange. (\$4,500 (fee); 2012)

**Franklin Avenue (Gretna) Right-of-Way Boundary Survey, Gretna, Jefferson Parish, LA.** BFM provided right-of-way boundary surveying services for Franklin Avenue between Stumpf Boulevard and the West Bank Expressway and the Franklin Street Utility Corridor. (\$8,300 (fee); 2011)

**Airline Park Boulevard, Jefferson Parish, LA.** BFM provided topographic surveying services for the Airline Park Boulevard roadway project, which extended from West Metairie Avenue north to beyond Camphor Street. (\$18,176 (fee); 2010)

**Massachusetts Avenue Drainage Improvements, Jefferson Parish, LA.** BFM provided topographic surveying services for the project, which extended from W Napoleon Avenue to Veterans Memorial Boulevard. (\$28,515 (fee); 2009)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<b>Dawn Hoffman</b> Researcher/Archivist	
<b>Project Assignment:</b>	
Researcher/Archivist	
<b>Name of Firm with which associated:</b>	
 <b>BFM CORPORATION, LLC</b> Professional Land & Hydrographic Surveying	
<b>Years' experience with this Firm:</b>	
15 years (joined BFM in 2009); 27 years total (1997)	<i>BFM Corporation, LLC   2009 to present</i> <i>Fluor Corporation   2007 to 2009</i> <i>Geographic Computer Technologies, LLC   2000 to 2007</i>
<b>Education: Degree(s)/Year/Specialization:</b>	
A.D., 1999, Computer-Aided Drafting, Southeast College of Technology Certificate, 2003, Introduction to ArcGIS, Louisiana State University	
<b>Active Registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Dawn Hoffman serves as BFM's primary researcher and has more than 25 years of experience in this field. She is extremely knowledgeable with researching in various parishes and cities.</p> <p><b>Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA.</b> BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)</p> <p><b>Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA.</b> BFM Corporation provided extensive surveying services for a topographic &amp; hydrographic 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. (\$478,744 (fee); 2020)</p>	

## TEC Professional Services Questionnaire

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

**West Esplanade Avenue U-Turn at Bonnabel Canal, Metairie, Jefferson Parish, LA.** BFM provided topographic and right-of-way (R/W) surveying services for the project located in Metairie. The scope of services included establishing a baseline, two Temporary Benchmarks (TBM), and spot elevations. BFM also located property corners to establish the rights-of-way and property ownership. The survey located existing improvements, utilities, and pipes (drainage, water, sewerage). Project deliverables included physical & digital files as well as a Three-Point Tie Worksheet. (\$11,310 (fee); 2024)

**Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA.** BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)

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

**Metairie Road Smart Growth: Causeway Boulevard and Metairie Road, Metairie, Jefferson Parish, LA.** BFM prepared a topographic survey of the project site for the Metairie Road Smart Growth Program. This included Metairie Road beneath the Causeway Boulevard Overpass. BFM established a baseline parallel to Metairie Road, set up two temporary benchmarks (TBMs), and located all existing improvements. Cross sections for the project area were taken on a 25 ft. grid within established limits. (\$12,660 (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 Surveying services were also included. (\$68,090 (fee); 2020)

**Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.** BFM Corporation executed a Route Topographic Survey for the Allo Street project area, which extended from 4th Street to 6th Street. A baseline was established along the centerline of Allo Street, with Temporary Benchmarks at each intersection along the route. Cross sections taken on a 25 ft. grid. Existing improvements were located within the designated Limits of Survey, as were visible above-ground and underground utilities, piping, and natural features including trees and shrubbery. (\$12,855 (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)

**DOTD H.008068, Peters Road Bridge and Extension Project (Phase 2), Jefferson Parish, LA.** BFM's surveying services included the stakeout of parcel (No. 4-2) for the project. (\$1,250 (fee); 2017)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<b>Anthony Watson</b> CADD Technician (AutoCADD Drafting Services)	
<b>Project Assignment:</b>	
CADD Technician (AutoCADD Drafting Services)	
<b>Name of Firm with which associated:</b>	
 <b>BFM CORPORATION, LLC</b> Professional Land & Hydrographic Surveying	
<b>Years' experience with this Firm:</b>	
13 years (joined BFM in 2011); 33 years total (1991)	<i>BFM Corporation, LLC   2011 to present</i> <i>Krebs LaSalle Lemieux / GEC   2008 to 2011</i> <i>Doug Connally and Associates Land Surveying (Dallas, TX)   1995-2008</i> <i>Electrician   1991 to 1995</i> <i>City of Plano TX (Part-Time Drafting Services)   1991</i>
<b>Education: Degree(s)/Year/Specialization:</b>	
Coursework - CAD, Avatech Solutions, Los Colinas, TX	
<b>Active Registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Anthony Watson has experience as a draftsman/survey technician, having started his career as an intern with the Surveying Department of the City of Plano, Texas. His experience through the years includes manual and computer-aided drafting for a wide range of projects, ranging from small lot surveys to subdivisions to municipal treatment and private industrial plants. He has experience in all facets of surveying (boundary, topographic, ALTA/ACSM, plan &amp; profile, etc.) in both drafting and field environments.</p> <p><b>Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.</b> BFM Corporation provided Route Topographic Surveying for this Drainage Evaluation Project (PW 2018-024-DR) in Jefferson Parish. The scope of services included a full Route Topographic Survey (includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work) from gutter line to gutter line along Metairie Road from the westerly apparent right-of-way (ROW) of Causeway Boulevard to easterly apparent R/W of Focis Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope. (\$18,350 (fee); 2020)</p> <p><b>West Esplanade Avenue U-Turn at Bonnabel Canal, Metairie, Jefferson Parish, LA.</b> BFM provided topographic and right-of-way (R/W) surveying services for the project located in Metairie. The scope of services included establishing a baseline, two Temporary Benchmarks (TBM),</p>	

## TEC Professional Services Questionnaire

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

and spot elevations. BFM also located property corners to establish the rights-of-way and property ownership. The survey located existing improvements, utilities, and pipes (drainage, water, sewerage). Project deliverables included physical & digital files as well as a Three-Point Tie Worksheet. (\$11,310 (fee); 2024)

**Lapalco Boulevard Survey Update, Jefferson Parish, LA.** BFM prepared a Site Specific Update Survey for the Lapalco Boulevard project, which built on previous BFM surveys for the location. The field survey recovered and verified the horizontal and vertical control (from previous BFM projects noted). Spot elevations were taken; existing improvements within the designated Limits of Survey were noted. The survey also located utilities, pipes (drainage, water, sewerage), and trees. For the update, BFM specifically located newly-installed steel power poles and steel transmission towers, as well as the structures fronting along Lapalco Boulevard. Project deliverables included comprehensive/updated physical and digital files combining all new & previous survey data. (\$20,480 (fee); 2021)

**Lapalco Boulevard Turn Lane (Lapalco Boulevard at Barataria Boulevard), Jefferson Parish, LA.** BFM provided surveying services for the Lapalco Boulevard Turn Lane project (JPPW 2017-048-RBP), which involved a westbound left turn lane to southbound Lapalco Boulevard. BFM's scope included a Route Topographic Survey of Lapalco Boulevard at Barataria Boulevard; the full scope plan & profile included all services, utilities, properties, elevations, cross sections, and items necessary to perform any and all engineering and construction work. The project site was subject to road closures during the survey and preliminary construction/preparation phase. (\$46,854 (fee); 2018)

**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)

**Jefferson Highway to Charlotte Drive Route Topographic Survey, River Ridge, Jefferson Parish, LA.** BFM executed a Route Topographic Survey of the project area (Jefferson Highway to Charlotte Drive), which further involved the Midway Drive Drainage Improvements (Phase 2) project in River Ridge. 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. (\$19,135 (fee); 2020)

**West Napoleon Avenue U-Turn Culvert Crossing Survey, Westgate Subdivision Drainage Improvements, Jefferson Parish, LA.** BFM provided topographic surveying of a u-turn on West Napoleon Avenue, midway between Massachusetts Avenue and Mississippi Avenue. The project, which was part of the Westgate Subdivision Drainage Improvements project, also included 16 cross sections. Box culverts were also part of the project layout. (\$4,941 (fee); 2011)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<b>Curtis "Jay" Barrios</b> Survey Crew Chief	
<b>Project Assignment:</b>	
Survey Crew Chief	
<b>Name of Firm with which associated:</b>	
	
<b>Years' experience with this Firm:</b>	
34 years (joined BFM in 1990); 39 years total (1985)	<i>BFM Corporation, LLC   1990 to present</i> <i>Benson Mercedes Benz   1989 to 1990</i> <i>SECO Electric   1987</i> <i>Frishhertz Electric   1986 to 1987</i> <i>Plain Construction   1985 to 1986</i>
<b>Education: Degree(s)/Year/Specialization:</b>	
<i>High School Diploma</i>	
<b>Active Registration: Year first registered/discipline:</b>	
<i>American Traffic Safety Service Assn. – Traffic Flagger</i> <i>Basic OSHA Training Class Completion</i> <i>Transportation Work Identification Card (TWIC)</i>	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Jay Barrios' surveying experience includes boundary, hydrographic, and topographic. He has been the Survey Crew Chief for thousands of projects and is one of the more experienced surveyors in the area. Further, Mr. Barrios has been involved on major transmission projects for Entergy and South Central Bell (AT&amp;T).</p> <p><b>Metairie Road Smart Growth: Causeway Boulevard and Metairie Road, Metairie, Jefferson Parish, LA.</b> BFM prepared a topographic survey of the project site for the Metairie Road Smart Growth Program. This included Metairie Road beneath the Causeway Boulevard Overpass. BFM established a baseline parallel to Metairie Road, set up two temporary benchmarks (TBMs), and located all existing improvements. Cross sections for the project area were taken on a 25 ft. grid within established limits. (\$12,660 (fee); 2019)</p> <p><b>Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA.</b> BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere</p>	

## TEC Professional Services Questionnaire

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

Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)

**West Esplanade Avenue U-Turn at Bonnabel Canal, Metairie, Jefferson Parish, LA.** BFM provided topographic and right-of-way (R/W) surveying services for the project located in Metairie. The scope of services included establishing a baseline, two Temporary Benchmarks (TBM), and spot elevations. BFM also located property corners to establish the rights-of-way and property ownership. The survey located existing improvements, utilities, and pipes (drainage, water, sewerage). Project deliverables included physical & digital files as well as a Three-Point Tie Worksheet. (\$11,310 (fee); 2024)

**Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA.** BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)

**Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.** BFM Corporation executed a Route Topographic Survey for the Allo Street project area, which extended from 4th Street to 6th Street. A baseline was established along the centerline of Allo Street, with Temporary Benchmarks at each intersection along the route. Cross sections taken on a 25 ft. grid. Existing improvements were located within the designated Limits of Survey, as were visible above-ground and underground utilities, piping, and natural features including trees and shrubbery. (\$12,855 (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 Surveying services were also included. (\$68,090 (fee); 2020)

**Bonnabel Boulevard Bike Path, Metairie, Jefferson Parish, LA.** BFM provided surveying services for this bicycle path along Bonnabel Boulevard, extending from Veterans Memorial Boulevard to Lake Pontchartrain, in Metairie, LA. The scope included a Route Topographic Survey (plan only). (\$37,590 (fee); 2020)

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

**Manhattan Boulevard Right Turn Lanes, Jefferson Parish, LA.** BFM prepared a topographic survey along the northbound lanes of Manhattan Boulevard from Gretna Boulevard to the South Frontage Road of the Westbank Expressway. (\$29,420 (fee); 2008)

## TEC Professional Services Questionnaire

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

### PROJECT NO. 1

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>West Esplanade Avenue U-Turn at Bonabel Canal</b>, Metairie, Jefferson Parish, Louisiana</p> <p><b>Jefferson Parish Department of Engineering</b> 1221 Elmwood Park Blvd Ste 802 Jefferson LA 70123</p> <p><b>Nolan Carreras</b>, 504-736-6515 ncarreras@jeffparish.net</p>	<p>BFM provided topographic and right-of-way (R/W) surveying services for the project located in Metairie. The scope of services included establishing a baseline, two Temporary Benchmarks (TBM), and spot elevations. BFM also located property corners to establish the rights-of-way and property ownership. The survey located existing improvements, utilities, and pipes (drainage, water, sewerage). Project deliverables included physical &amp; digital files as well as a Three-Point Tie Worksheet.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2024	N/A	\$11,310 (fee)

### PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>West Napoleon Avenue Extension (Highway Park Subdivision)</b>, Jefferson Parish, Louisiana</p> <p><b>Linfield Hunter &amp; Junius, Inc.</b> 3608 18th Street Metairie LA 70002</p> <p><b>Mark Annino</b>, 504-833-5300</p>	<p>BFM provided Route Topographic Surveying services for the West Napoleon Avenue Extension Project, located at the Highway Park Subdivision in Jefferson Parish. The Phase 1 Limits of Survey were noted to be from the apparent right-of-way to apparent right-of-way along the Airport Access Road, from and extend approximately 225 feet North and South from the projected centerline of West Napoleon Avenue.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2021	N/A	\$10,095 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Lapalco Boulevard Survey Update,</b> Jefferson Parish, Louisiana</p> <p><b>Hartman Engineering</b> 527 W Esplanade Ave Ste 300 Kenner LA 70065</p> <p><b>Jared Monceaux, P.E.,</b> 504-467-5667 jmonceaux@harteng.com</p>	<p>BFM prepared a Site Specific Update Survey for the project, which built on previous BFM surveys for the location. The field survey recovered and verified the horizontal and vertical control (from previous BFM projects noted). Spot elevations were taken; existing improvements within the designated Limits of Survey were noted. The survey also located utilities, pipes (drainage, water, sewerage), and trees. For the update, BFM specifically located newly-installed steel power poles and steel transmission towers, as well as the structures fronting along Lapalco Boulevard. Project deliverables included comprehensive/updated physical and digital files combining all new &amp; previous survey data.</p>	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
January 2021	N/A	\$20,480 (fee)

<b>PROJECT NO. 4</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Manhattan Boulevard Southbound Lanes Widening,</b> Harvey, Jefferson Parish, Louisiana</p> <p><b>Professional Engineering Consultants Corporation (PEC)</b> 3702 Bienville Avenue New Orleans LA 70119</p> <p><b>John Shires,</b> 504-345-4842 jshires@pecla.com</p>	<p>BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years.</p>	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
January 2021	N/A	\$77,733 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Cousins Boulevard Extension Project,</b> Harvey, Jefferson Parish, Louisiana</p> <p><b>Digital Engineering</b> 527 W Esplanade Ave Ste 200 Kenner LA 70065</p> <p><b>Frank T. Liang, P.E.,</b> 504-468-7515 fliang@deii.net</p>	<p>BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details.</p>	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
August 2018	N/A	\$49,300 (fee)

<b>PROJECT NO. 6</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Metairie Road Drainage Evaluation,</b> Metairie, Jefferson Parish, Louisiana</p> <p><b>GEC, Inc.</b> 3445 N Causeway Blvd Ste 401 Metairie LA 70002-3779</p> <p><b>Jerome Lohmann,</b> 504-207-6926 jlohmann@gecinc.com</p>	<p>BFM Corporation provided Route Topographic Surveying for this Drainage Evaluation Project (PW 2018-024-DR) in Jefferson Parish. The scope of services included a full Route Topographic Survey (includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work) from gutter line to gutter line along Metairie Road from the westerly apparent right-of-way (ROW) of Causeway Boulevard to easterly apparent R/W of Focis Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope.</p>	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
May 2020	N/A	\$18,350 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396),</b> Jefferson Parish, Louisiana</p> <p><b>Hardesty &amp; Hanover</b> 3850 N Causeway Blvd Ste 1850 Metairie LA 70002</p> <p><b>Dr. Babak Naghavi, P.E.,</b> 504-962-9212 bnaghavi@hardestyhanover.com</p>	<p>BFM Corporation provided extensive surveying services for a topographic &amp; hydrographic 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.</p>	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
September 2020	N/A	\$478,744 (fee)

<b>PROJECT NO. 8</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Lapalco Boulevard Turn Lane (Lapalco Boulevard at Barataria Boulevard),</b> Jefferson Parish, Louisiana</p> <p><b>Burk-Kleinpeter, Inc.</b> 4176 Canal Street New Orleans LA 70119</p> <p><b>Mark K. Roberts, P.E.,</b> 504-486-5901 mroberts@bkiusa.com</p>	<p>BFM provided surveying services for the Lapalco Boulevard Turn Lane project (JPPW 2017-048-RBP), which involved a westbound left turn lane to southbound Lapalco Boulevard. BFM's scope included a Route Topographic Survey of Lapalco Boulevard at Barataria Boulevard; the full scope plan &amp; profile included all services, utilities, properties, elevations, cross sections, and items necessary to perform any and all engineering and construction work. The project site was subject to road closures during the survey and preliminary construction/preparation phase.</p>	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
April 2018	N/A	\$46,854 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Power Boulevard at Vintage Drive,</b> Kenner, Jefferson Parish, Louisiana</p> <p><b>GEC, Inc.</b> 8282 Greenwood Boulevard Baton Rouge LA 70806</p> <p><b>Jerome Lohman, 225-612-3000</b></p>	<p>A survey update was provided by BFM, which was a continuation of a previous surveying project executed by the company. The scope of work included updating or addition of topographic survey at the intersection of Vintage Drive and Power Boulevard, and shooting two cross sections along the canal adjacent to a proposed bridge location. BFM further located the waterline, new monument along Power Boulevard, and located the monument of Lot 7 and adjacent property line along Janice Street and Vintage Boulevard.</p>	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
April 2019	N/A	\$11,390 (fee)

<b>PROJECT NO. 10</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Metairie Road Smart Growth: Causeway Boulevard and Metairie Road,</b> Metairie, Jefferson Parish, Louisiana</p> <p><b>H. Davis Cole &amp; Associates, Inc.</b> 1340 Poydras Street Suite 1850 New Orleans LA 70112</p> <p><b>David Martin, P.E., 504-836-2020</b></p>	<p>BFM prepared a topographic survey of the project site for the Metairie Road Smart Growth Program. This included Metairie Road beneath the Causeway Boulevard Overpass. BFM established a baseline parallel to Metairie Road, set up two temporary benchmarks (TBMs), and located all existing improvements. Cross sections for the project area were taken on a 25 ft. grid within established limits.</p>	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
May 2019	N/A	\$12,660 (fee)

## TEC Professional Services Questionnaire

<b>M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.</b>		
<b>Parties:</b>		<b>Status/Result of Case:</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
1.	<i>BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i>	
2.		
3.		
4.		

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



**CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE**

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

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

Our capabilities include the following and more:

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

## TEC Professional Services Questionnaire

N. continued.

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

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

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

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

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

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

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

### CRITERIA 2 | SIZE OF FIRM

As noted, BFM has the manpower and equipment to execute any surveying task within the reasonable time set forth by the contract or project engineer. BFM has no issue with meeting the project deadlines set forth by our clients, both municipal and private. It is our continual goal to keep this reputation solid. Further, we establish base costs and fees for our services, and work with our clients to meet all project budgets.

## TEC Professional Services Questionnaire

N. continued.

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

### **CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION**

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

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

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

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

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

### **CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS**

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

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

## TEC Professional Services Questionnaire

N. continued.

### CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

### CRITERIA 6 | LEGAL STATEMENT

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

### CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

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

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

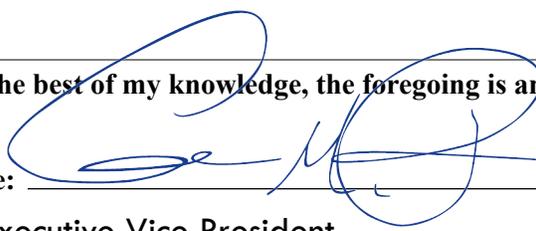
**Angela DeSoto, P.E., Director of Engineering, Jefferson Parish**  
(504-736-6511 | ADeSoto@jeffparish.net)

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

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

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

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

Signature:  Print Name: Chad M. Poché, P.E.

Title: Executive Vice President Date: June 20, 2024

**TEC Professional Services Questionnaire**

**A. Project Name and Advertisement Resolution Number:**

SOQ 24-021, Resolution No. 144319  
Routine Engineering Services for Streets Projects

**B. Firm Name & Address:**

**Eustis Engineering L.L.C.**

3011 28<sup>th</sup> Street, Metairie, Louisiana 70002

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

Gwendolyn P. Sanders, P.E. / President / 504-834-0157 / [gsanders@eustiseng.com](mailto:gsanders@eustiseng.com)

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

Gwendolyn P. Sanders, P.E. / President / 504-834-0157 / [gsanders@eustiseng.com](mailto:gsanders@eustiseng.com)

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

<u>7</u> Administrative	<u>    </u> Estimators	<u>    </u> Specification Writers
<u>    </u> Architects (Licensed)	<u>2</u> Geologists	<u>    </u> Structural Engineers
<u>    </u> Chemical Engineers	<u>17</u> Geotechnical Engineers	<u>3</u> Graduate Engineers
<u>    </u> Civil Engineers	<u>    </u> Interior Designers	<u>    </u> Project Managers
<u>    </u> Construction Inspectors	<u>    </u> Landscape Architects	<u>11</u> Clerical
<u>    </u> Ecologists	<u>    </u> Land Surveyor	<u>    </u> Grant/Funding Specialist
<u>    </u> Electrical Engineers	<u>    </u> Mechanical Engineers	<u>    </u> Sanitary Engineers
<u>5</u> Engineer Intern	<u>    </u> Environmental Engineers	<u>47</u> <b>Other</b>
<u>    </u> Professional Land Surveyors		<u>92</u> <b>TOTAL</b>

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

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

**TEC Professional Services Questionnaire**

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

1. Not applicable.

2.

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

YES  NO

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. Not Applicable.		
2.		
3.		

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

We estimate **16** individuals will be needed to complete the geotechnical services associated with projects under this advertisement. This includes a three-member drill crew as well as laboratory, clerical, and engineering staff. More employees can be added, as necessary, to complete any project.

## TEC Professional Services Questionnaire

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

### **PROFESSIONAL IN CHARGE OF PROJECT:**

**Name & Title:**

Gwendolyn P. Sanders, P.E. / President and Project Principal

**Project Assignment:**

Project Principal / Limited Liability Corporation Member

**Name of Firm with which Associated:**

**Eustis Engineering L.L.C.**

**Years' Experience with This Firm:**

31

**Education: Degree(s)/Year/Specialization:**

Master of Science / 1992 / Civil Engineering

Bachelor of Science / 1990 / Civil Engineering

**Active Registration: Year First Registered/Discipline:**

Louisiana: 1997 / Civil Engineering

Mississippi: 2003 / Engineering

Texas: 2020 / Civil Engineering

**Other Experience and Qualifications Relevant to the Proposed Project:**

Mrs. Sanders began her professional career with Eustis Engineering L.L.C. in 1993. Over the past 31 years, she has worked her way up through the ranks of the engineering department including Associate Engineer, Project Engineer, Project Manager, and Engineering Manager. She has been on Eustis Engineering's Board of Directors since 1997. In 2020, Mrs. Sanders became Eustis Engineering's first woman president after previously serving as a Vice President and Executive Vice President. As President, she is responsible for day-to-day business operations including quality, safety, marketing, and long-term strategic growth. She also actively participates in the engineering design and review processes.

Considering her experience with Eustis Engineering, a leading Gulf Coast geotechnical firm, Mrs. Sanders has extensive experience in soft soils and working on projects in coastal Louisiana. She has been directly and indirectly involved in numerous projects throughout the Gulf Coast area, particularly in Jefferson Parish. Mrs. Sanders has been involved in and managed every aspect of a geotechnical engineering project; namely, developing appropriate scopes of work for projects, planning and coordinating field investigations, assigning laboratory testing, performing geotechnical engineering analyses, preparing detailed reports with engineering analyses and recommendations, reviewing reports prepared by other professionals, and consulting with clients. Much of her work experience has dealt with identifying soil properties, developing criteria for design of foundations, and determining an appropriate foundation to support the structure under consideration.

In 2017, Mrs. Sanders served as program advisor for the Deep Foundations Institute's 42<sup>nd</sup> annual conference. She has twice been named one of the 50 Women of the Year by New Orleans CityBusiness, first in 2017 and again in 2021. She is currently serving as an associate member of the ASCE Standards Committee for the Design of Foundations. She has a keen eye for detail and is a stickler for quality. Her work ethic, combined with her communication skills, translates to Mrs. Sanders' ability to deliver successful geotechnical engineering projects to her clients.

Over the years, Mrs. Sanders has been involved with more than 2,800 projects in some capacity, including the following contained within this submittal:

- **Jefferson Parish** – North Causeway Boulevard (Southbound), Veterans Memorial Boulevard Overpass Ramp Extension, Metairie, Louisiana, Eustis Engineering Project No. 23914

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

**PROFESSIONAL IN CHARGE OF PROJECT:**

**Name & Title:**

Gwendolyn P. Sanders, P.E. / President and Project Principal

- **State of Louisiana – Department of Transportation and Development**, Ames Boulevard Between the West Bank Expressway and Happy Street, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24631
- **State of Louisiana – Department of Transportation and Development**, Fortune Road Pavement Preservation, Youngsville, Louisiana, Eustis Engineering Project No. L0585
- **State of Louisiana – Department of Transportation and Development**, I-10 and I-12 College Drive Flyover Ramp, Design-Build Project, East Baton Rouge Parish, Louisiana, Eustis Engineering Project No. B0646

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Sean G. Walsh, P.E. / Engineering Manager and Vice President (Engineering)
<b>Project Assignment:</b>
Project Manager
<b>Name of Firm with which Associated:</b>
<b>Eustis Engineering L.L.C.</b>
<b>Years' Experience with This Firm:</b>
11
<b>Education: Degree(s)/Year/Specialization:</b>
Master of Science / 2010 / Civil Engineering Bachelor of Science / 2007 / Civil Engineering
<b>Active Registration: Year First Registered/Discipline:</b>
Louisiana: 2013 / Civil Engineering
<b>Other Experience and Qualifications Relevant to the Proposed Project:</b>
<p>For his first 5 years after graduation, Mr. Walsh was a Project Engineer on numerous projects in New York and the New Orleans metropolitan area where he gained experience in civil, geotechnical, and geo-environmental engineering projects for a variety of public and private clients.</p> <p>Since joining Eustis Engineering in 2012 as a Project Engineer, Mr. Walsh has been responsible for developing and managing engineering package preparations (e.g., engineering design and analysis, reporting, developing construction and permit drawings, contract specifications, cost estimates, and design reporting) for a diverse range of design and analysis projects including deep foundations, excavation support systems, utility foundations, pavements, slope stabilization, solid waste closure systems, levee inspection/safety, and seepage modeling.</p> <p>Mr. Walsh was promoted to Project Manager in 2017, Engineering Manager in 2019, and Vice President in 2020. Mr. Walsh is also a graduate of the 2017 New Orleans Regional Leadership Institute (NORLI), a 1-year training program designed to help shape community leaders.</p> <p>During his employment with Eustis Engineering, Mr. Walsh has provided engineering services on more than 900 projects. Mr. Walsh has risen to the level of Vice President and Engineering Manager, in which he is responsible for personnel resource allocation, the overall engineering schedule, and execution of engineering services. Mr. Walsh also functions as a mentor to the engineering staff.</p> <p>A large portion of Mr. Walsh's experience, before and after joining Eustis Engineering, involved development of design and construction recommendations associated with flood protection systems in southeastern Louisiana. Mr. Walsh has served as the project engineer and project manager responsible for the development and implementation of geotechnical exploration programs; development of soil testing laboratory programs; and interpretation of the results to evaluate strength, compressibility, and general soil characterization. Mr. Walsh used these data for geotechnical designs comprising pile capacity curves; bearing capacity analyses; cantilever retaining analyses; anchored retaining wall analyses; temporary retaining structure design; time-settlement projections for earthen levees with lift schedules; soil pressure profiles; structural and earthen levee under seepage analyses; levee and bank stability by Spencer's Method of Slices and Method of Planes; reinforced embankment design; stability analyses of flood protection walls (e.g., T-walls, I-walls, L-walls, and braced 'A-Frame' walls); downdrag and settlement analyses; settlement induced bending moments (SIBM) in foundation piles; piping analyses; uplift analyses; heave analyses; three-dimensional modeling of fill and structural load placements for predictions of time-rate settlements of foundation systems; and</p>

## KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

### Name & Title:

Sean G. Walsh, P.E. / Engineering Manager and Vice President (Engineering)

numerical modeling of soil-structure interaction (SSI) of flood protection structures by the finite element method (FEM).

Mr. Walsh has also worked on many local government projects in towns and cities including New Orleans, Golden Meadow, and Kentwood; numerous projects in Jefferson, Orleans, St. Bernard, St. Charles, and Plaquemines Parishes; several Port Commissions (e.g., Baton Rouge, New Orleans, South Louisiana); the Sewerage & Water Board of New Orleans; etc.

Regardless of the types of projects engineered for these agencies, his responsibilities have remained the same; namely, defining the project philosophy; developing and maintaining the schedule; providing status reports to clients; controlling expenditures; overseeing project personnel; and reviewing the project design for compliance with engineering principles, company standards, and client requirements. He is hands-on in coordinating activities concerned with technical developments and in resolving engineering design/test problems.

Mr. Walsh's skills over the past 16 years in the industry have developed exponentially with the variety of projects that have crossed his desk. Regarding this submittal, Mr. Walsh has been directly involved with the following projects:

- **Westside Terrace Subdivision** – Tallow Tree Lane Renewal, 1045 Orange Blossom Lane, Harvey, Louisiana, Eustis Engineering Project No. 24677
- **Cleveland On the Lake Estates** – Earthen Surcharge Evaluation Monitoring, and Reporting for Existing Roadway, 6000 Cleveland Place, Metairie, Louisiana, Eustis Engineering Project Nos. 24124 and 24124.01

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Travis R. Richards, P.E. / Senior Project Manager and Vice President (Testing)
<b>Project Assignment:</b>
Senior Project Manager / Limited Liability Corporation Member
<b>Name of Firm with which Associated:</b>
<b>Eustis Engineering L.L.C.</b>
<b>Years' Experience with This Firm:</b>
17
<b>Education: Degree(s)/Year/Specialization:</b>
Graduate Certificate / 2018 / Coastal Engineering Master of Science / 2017 / Engineering Master of Science / 2015 / Engineering Management Bachelor of Science / 1998 / Geotechnical & Structural Engineering
<b>Active Registration: Year First Registered/Discipline:</b>
Louisiana: 2004 / Civil Engineering Alabama: 2017 / Engineering Florida: 2016 / Engineering Texas: 2016 / Civil Engineering
<b>Other Experience and Qualifications Relevant to the Proposed Project:</b>
<p>Mr. Richards' experience in the field of civil and geotechnical engineering includes responsibility for the technical and supervisory functions of planning, permitting, design, exploration, construction materials testing, and project management. He has been involved in a variety of project assignments including residential, commercial, and municipal clientele practicing in the fields of land development and geotechnical engineering. In addition, he is experienced in the geotechnical design and construction quality control of foundations for industrial, levee, and heavy civil construction projects.</p> <p>Mr. Richards began with Eustis Engineering as Staff Engineer in 1999. Mr. Richards' experience includes all phases of geotechnical engineering practice with particular emphasis in planning field exploration programs, supervision of soil mechanics laboratory testing, engineering analyses, and report presentation. He is proficient with analyses that include allowable soil bearing values, pile load capacities, slope stability, settlement estimates, pavement designs, and other analyses pertinent to the preparation of geotechnical reports. An understanding of these analyses also assists with the review of plans, specifications, and contractor submittals associated with the construction of these features.</p> <p>In addition to geotechnical engineering, Mr. Richards has experience with management of construction materials testing, and in-situ instrumentation while working for Universal Engineering Sciences, LLC, Louisiana Transportation Research Center, and Eustis Engineering. Mr. Richards has been the engineer in responsible charge of construction materials testing/construction quality control departments on projects such as 2,000-home residential developments, major FDOT transportation projects, and several large-scale projects for the Everglades Restoration Program in association with the U.S. Army Corps of Engineers. His current principal focus is the oversight and quality control of Eustis Engineering's construction materials testing services at the organizational level. This includes the day-to-day involvement with operational components in all branches, technical liaison to branch managers, management of internal quality control resources, and planning of construction materials testing capabilities and services.</p> <p>Mr. Richards began his geotechnical engineering career installing and monitoring strain gauge instrumentation on various construction components including geotextiles, concrete, corrugated pipe, and carbon fiber reinforcements for various entities including the State of Louisiana Department of Transportation and Development. He continues to oversee the instrumentation services provided by Eustis Engineering which include the installation and monitoring of</p>

## KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

### Name & Title:

Travis R. Richards, P.E. / Senior Project Manager and Vice President (Testing)

slope inclinometers, settlement plates, settlement gauges, piezometers, strain gauges, and SAA inclinometers. He has recently upgraded the delivery of data monitoring services through the use of data logger systems and near real-time remote sensing equipment.

Mr. Richards currently provides oversight of the in-house testing and development of instrumentation for marsh creation and coastal restoration projects. This includes the supervision of our settling column and self-weight consolidation testing.

Some of his experience relative to this submittal includes the following:

- **Jefferson Parish** – Maplewood Drive and Pallet Street, Drainage Improvements, Jefferson Parish, Louisiana, Eustis Engineering Project No. 22942
- **Jefferson Parish** – Westbank Projects, Instrumentation Installation and Monitoring, Lapalco Boulevard Overpass at Bayou Segnette, Westwego, Louisiana, Eustis Engineering Project No. 23937
- **State of Louisiana – Department of Transportation and Development**, Ames Boulevard Between the West Bank Expressway and Happy Street, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24631
- **Cleveland On the Lake Estates** – Earthen Surcharge Evaluation Monitoring, and Reporting for Existing Roadway, 6000 Cleveland Place, Metairie, Louisiana, Eustis Engineering Project Nos. 24124 and 24124.01
- **Jefferson Parish** – Cleary Avenue Improvements, Veterans Boulevard to West Esplanade Avenue, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24137

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Matthew K. Morales, P.E. / Branch Manager
<b>Project Assignment:</b>
Project Manager
<b>Name of Firm with which Associated:</b>
<b>Eustis Engineering L.L.C.</b>
<b>Years' Experience with This Firm:</b>
15
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 2008 / Civil Engineering
<b>Active Registration: Year First Registered/Discipline:</b>
Louisiana: 2013 / Civil Engineering
<b>Other Experience and Qualifications Relevant to the Proposed Project:</b>
<p>Since joining Eustis Engineering L.L.C.'s staff as an Associate Engineer/Engineering Intern, Mr. Morales' duties have included coordinating field personnel for geotechnical explorations, preparing draft letters and reports for engineering projects, and performing various analyses including allowable soil bearing values, estimates of allowable pile load capacity for various types of piles, settlement analyses, and pavement designs. With his continued growth in the firm as a licensed Professional Engineer, Mr. Morales is adept at lateral pile load analyses, anchored and cantilever sheetpile wall analyses using the U.S. Army Corps of Engineers' CWALSHT program, analyzing effects of drag loads on deep foundations, wick drain design, and slope stability analyses. He is proficient in soil/foundation modeling programs such as LPILE® and GROUP® by Ensoft, Inc., SLOPE/W by GeoStudio, WEAP and CAPWAP® by Pile Dynamics, Inc., and Settle3 by RocScience Inc.</p> <p>His field engineering duties/capabilities have also expanded and include performing and interpreting cone penetration test data, inclinometer data, and vibrating wire piezometer data; dynamic pile testing; pile integrity testing; crosshole sonic logging; and sonic echo/impact response testing. Mr. Morales is certified at the Master level by the Dynamic Measurement and Analysis Proficiency Test issued by Pile Dynamics, and the Pile Driving Contractors Association. He has performed dynamic pile testing on more than 100 projects in Louisiana, Texas, Mississippi, and Iowa.</p> <p>In 2018, Mr. Morales was named Branch Manager to Eustis Engineering's Baton Rouge office. As Branch Manager, Mr. Morales oversees operations of the branch including laboratory workflow and CMT services in addition to managing staff engineers and interns. He routinely performs design analyses and reviews the geotechnical aspects of plans and specifications for local/municipal and state government projects, federal projects, and industrial clients. Mr. Morales is familiar with regulations, policies, procedures, and standards for these various stakeholders.</p> <p>Mr. Morales has involvement in the following projects relative to this submittal:</p> <ul style="list-style-type: none"><li>• <b>State of Louisiana – Department of Transportation and Development</b>, I-10 and I-12 College Drive Flyover Ramp, Design-Build Project, East Baton Rouge Parish, Louisiana, Eustis Engineering Project No. B0646</li><li>• <b>City of Kenner</b> – Power Boulevard Median Improvements, West Esplanade Avenue to Vintage Drive, Kenner, Louisiana, S.P. No. H.011779. F.A.P. No. H011779., City of Kenner P.W. No. 2014-001B-CIP, Eustis Engineering Project No. 25176</li></ul>

## TEC Professional Services Questionnaire

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Lawrence W. Rome, C.E.T. / Operations Manager and Vice President (Operations)

**Project Assignment:**

Operations Manager / Limited Liability Corporation Member

**Name of Firm with which Associated:**

**Eustis Engineering L.L.C.**

**Years' Experience with This Firm:**

29

**Education: Degree(s)/Year/Specialization:**

Associate of Applied Sciences / 1998 / Safety

**Active Registration: Year First Registered/Discipline:**

LA Driller's License /2013

**Other Experience and Qualifications Relevant to the Proposed Project:****Accreditations / Affiliations / Certifications**

American Society of Certified Engineering Technicians  
Confined Space Entry Certification  
Greater New Orleans Industrial Education Council Safety Training  
Medic First Aid and CPR Course 2015  
HAZMAT Certification, 49 CFR 172, Subpart H, Nuclear Gauges

International Code Council: Soils Special Inspector

National Institute for Certification in Engineering Technologies:

- Level I: Construction Materials Testing, Asphalt
- Level II: Construction Materials Testing, Concrete
- Level IV: Construction Materials Testing, Soils
- Level II: Geotechnical Engineering Technology, Construction
- Level III: Geotechnical Engineering Technology, Generalist
- Level IV: Geotechnical Engineering Technology, Exploration
- Level IV: Geotechnical Engineering Technology, Laboratory
- Level III: Transportation Engineering Technology, Highway Materials

10-Hour OSHA Training

Transportation Workers Identification Card (TWIC)

Registered Well Driller for the States of Louisiana and Mississippi

**Professional Experience**

After joining Eustis Engineering in 1994, Mr. Rome has worked in several departments throughout our firm. He began as a laboratory technician, performing simple testing such as grain size analyses, Atterberg liquid limits and plastic limits, and unconfined compression shear. Mr. Rome has become involved in more complex testing procedures such as permeability and consolidation tests. His capabilities have expanded to include lime stabilization studies, California Bearing Ratio tests, hysteresis, direct shear tests, swelling pressure and percent swell tests, consolidated undrained triaxial shear tests, relative density tests, and compaction tests.

## KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

### Name & Title:

Lawrence W. Rome, C.E.T. / Operations Manager and Vice President (Operations)

Mr. Rome is thoroughly familiar with the performance of the following types of testing.

- Atterberg limits
- Consolidated drained triaxial shear tests
- Consolidation tests
- Direct simple shear
- Hydrometer
- Moisture content of soil and rock
- Particle size analysis of soils and aggregates
- Pocket penetrometer
- Settlement column testing of dredged materials
- Soil constants
- Standard and modified compaction
- Torvane shear tests
- Unconsolidated undrained triaxial shear tests
- Unit weight
- Moisture density relationships of soil-cement mixtures
- Molded sand triaxial test using Mississippi Department of Transportation specifications
- U.S. Army Corps of Engineers' New Orleans District Classification System
- CBR of laboratory compacted soils
- Consolidated undrained triaxial shear tests
- Direct shear
- Flexible wall permeability test
- Miniature vane shear
- Organic content
- Percent finer than U.S. Standard No. 200 sieve
- Relative density tests
- Sieve analyses
- Specific gravity of soils
- Swell pressure tests
- Unconfined compressive strength of soil
- Unified Soil Classification System
- Visual classification of soils

In early 1998, Mr. Rome joined the Drilling Department as a soil technician, assisting the drilling crew as a wrenchman. In November 1998, Mr. Rome became a driller for Eustis Engineering. In this capacity, he performed sampling operations using 3-in. diameter Shelby tubes and 5-in. diameter U.S. Army Corps of Engineers' (USACE's) fixed piston sampling. He is quite familiar with splitspoon, pitcher, Osterberg, Denison, and hollow stem auger sampling operations. He also performs down hole vane shear testing. He is competent in the installation of piezometers, monitoring wells, inclinometers, and pore pressure transducers. Mr. Rome has drilled to depths in excess of 300 feet utilizing 5-in. fixed piston samplers, and in excess of 400 feet for 3-in. diameter Shelby tube sampling. Mr. Rome has drilled from various types of equipment including pontoons, cargo buggies, shallow draft elevating boats, barges, and pull boats using CME, Diedrich, and Failing drill rigs. Mr. Rome has also served as a Quality Assurance/Quality Control inspector for drilling operations for FFEB JV. This included ensuring as many as 22 drill crews were performing sampling operations in strict compliance with USACE specifications.

In the early 2000s, Mr. Rome attended the University of Missouri at Rolla for Advanced Soil Mechanics training. In 2005, he began serving as Operations Manager overseeing the laboratory department's daily objectives, reviewing calculations, and developing new skills in laboratory personnel, as well as other duties. In the drilling department, he oversees up to seven drilling crews which involves ordering parts, looking at prospective sites, making crew schedules, lining up subcontract equipment, and ensuring the highest quality samples are obtained by drill crews and subcontractors. Mr. Rome also serves as a driller or soil technician when his experience is required, or to train new employees.

In 2013, Mr. Rome added the CMT Department under his operational duties in addition to his operational duties within the lab and drilling departments. Mr. Rome works closely with the operations supervisor for CMT, overseeing the department's daily objectives, reviewing reports, reviewing invoices, addressing staffing needs, fleet management, as well as other duties.

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Lawrence W. Rome, C.E.T. / Operations Manager and Vice President (Operations)

Mr. Rome has direct involvement with the following projects related to this submittal:

- **Jefferson Parish** – Maplewood Drive and Paillet Street, Drainage Improvements, Jefferson Parish, Louisiana, Eustis Engineering Project No. 22942
- **Jefferson Parish** – North Causeway Boulevard (Southbound), Veterans Memorial Boulevard Overpass Ramp Extension, Metairie, Louisiana, Eustis Engineering Project No. 23914
- **Westside Terrace Subdivision** – Tallow Tree Lane Renewal, 1045 Orange Blossom Lane, Harvey, Louisiana, Eustis Engineering Project No. 24677

**PROJECT NO. 01**

PROJECT NO. 01		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> <b>Jefferson Parish</b>  <b>Maplewood Drive and Paillet Street</b>  <b>Drainage Improvements</b>  <b>Project No. 2009-63-R</b>  <b>Jefferson Parish, Louisiana</b>  <b>Eustis Engineering Project No. 22942</b> </p> <p align="center"> <b>Contact Information:</b>                      Jefferson Parish Through                      Burk-Kleinpeter, Inc.                      4176 Canal Street                      New Orleans, Louisiana 70119                      Henry M. Picard, III, P.E. @ 504-486-5901                 </p>	<p>After completing the geotechnical exploration and design for the project in 2011, Eustis Engineering was asked to provide construction materials testing services associated with the Maplewood Drive and Paillet Street drainage improvements project in Harvey, Louisiana. The project's general scope included the installation of subsurface drainage and street resurfacing along Maplewood Drive and the surrounding area. Our services included:</p> <ul style="list-style-type: none"> <li>• the performance of soil mechanics laboratory tests on various materials to be used for bedding, backfill, and roadway base materials to confirm they comply with project specifications;</li> <li>• in-place density tests on these same materials to determine their compaction complied with the project specifications;</li> <li>• inspection of the placement of concrete for slope paving, junction boxes, roadway paving, and various foundations;</li> <li>• more than 80 sets of concrete cylinders were subjected to compressive strength testing at 7 days and 28 days;</li> <li>• the inspection of more than 1,300 tons of asphalt both at the plant and in the field along with asphalt coring after placement; and</li> <li>• vibration monitoring services during construction.</li> </ul> <p>Our technicians recorded more than 8,200 hours for the project. Our engineers reviewed daily reports for compliance with our quality control manual and program.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
11/2017 (A)	Unknown	\$363,600

**PROJECT NO. 02**

**Project Name, Location, and  
Owner's Contact Information:**

**Nature of Firm's Responsibility:**

**Jefferson Parish  
Westbank Projects  
Instrumentation Installation and Monitoring  
Lapalco Boulevard Overpass Over Bayou Segnette  
Westwego, Louisiana  
Parish Project No. 2017-045-RBP  
Parish Account No. 44220-411-7452 (42211.016)  
Eustis Engineering Project No. 23937**

**Contact Information:**  
Jefferson Parish Office of Public Works  
Suite 904  
1221 Elmwood Boulevard  
Jefferson, Louisiana 70123  
Miles Bingham @ 504-736-8753

Eustis Engineering performed a site visit and developed a plan for instrumentation installation and monitoring of relative movements of the Lapalco Boulevard Overpass bridge structures at Bayou Segnette in Westwego, Louisiana. We were contracted to install six crackmeters, three tiltmeters, and three temperature sensors on the Lapalco Boulevard Overpass. These instrumentation installations occurred on Bents 4, 24, and 34.

The crackmeters were installed at the determined bents. They measured displacements to the nearest 0.0375 millimeter. A set of crackmeters were installed at each bent, one to measure displacement in the direction of traffic and one to measure displacement perpendicular to traffic.

Tiltmeters were installed on the faces of the supporting pedestals with inclination measured to the .001 of a degree and oriented to measure uniaxially in the vertical direction perpendicular to traffic. Eustis Engineering measured inclination of the bridge pedestals utilizing a digital level with a precision to the .01 of a degree. These measurements were taken to establish the initial orientation of the tiltmeters. Measurements were taken of inclination in the transverse and longitudinal directions to relate to the structure at the end of the monitoring period. In addition, we conducted a survey to measure relative elevation differences between the tops of pile caps for comparison to the as-built plans. Finally, we conducted traditional survey readings to estimate the movement of the bridge abutments.

In an attempt to isolate temperature-related movements of the bridge from traffic-related movements, Eustis Engineering also installed a temperature sensor at each bent in the area exposed to the greatest amount of sunlight. This approach showed variation in temperature as compared to the bridge structure.

Finally, Eustis Engineering conducted a level survey of pile caps relative to each other, where available. Some pile caps were inaccessible due to excessive vegetation or water above the pile caps. These measurements were related to two independent temporary benchmarks taken on each side of the bridge structure (east and west) and on the south side of the bridge.

Review of existing and gathered data revealed approximately 3 feet of ground subsidence occurred since the bridge was completed. Survey data from Eustis Engineering showed the pile caps towards the center of the bridge span were between 2 and 3 feet higher in elevation than the pile caps near the approaches.

**PROJECT NO. 02**

<b>PROJECT NO. 02</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
	Instrumentation data showed that movements with respect to time were very slight (less than 1.5 millimeters) over the six-month monitoring period. The movements also appeared to be strongly correlated with fluctuations in temperature. While there were some minor fluctuations, the crackmeters and tiltmeters generally moved with respect to temperature and to less extent, the height of Bayou Segnette.	
<b>Completion Date (Actual or Estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
10/2019 (A)	Unknown	\$22,900

**PROJECT NO. 03**

**Project Name, Location, and Owner's Contact Information:**

**Nature of Firm's Responsibility:**

**Jefferson Parish  
North Causeway Boulevard (Southbound)  
Veterans Memorial Boulevard  
Overpass Ramp Extension  
Metairie, Louisiana  
Jefferson Parish Project No. 2017-011-RBP  
DEI Project No. 3017  
Eustis Engineering Project No. 23914**

**Contact Information:**  
Jefferson Parish Through  
Design Engineering, Inc.  
Suite 250  
3300 West Esplanade Avenue  
Metairie, Louisiana 70002  
John Holtgreve @ 504-836-2155

The project included roadway widening work as well as structural modifications to a portion of the bridge over Veterans Memorial Boulevard. A sign foundation also required removal and relocation to facilitate the bridge widening. The existing sign foundation was to be abandoned with supporting timber piles cut to 3 feet below finished grade.

Three new column bents were proposed for the project, each consisting of five to nine vertical 14-in. square, precast concrete piles (SPCs). Three existing piles would be incorporated into one of these pile caps. Four additional bents along the widened slab spans would each require three additional vertical 14-in. SPCs. The relocated sign foundation would be supported by four vertical 14-in. SPCs. Finally, four individual vertical 12-in. SPCs were proposed for support of the curtain wall. Based on this information, forty-four 14-in. and four 12-in. SPCs would be installed as part of the structural modifications. Dynamic pile testing was proposed on at least two of the piles.

The roadway widening would extend approximately 700 feet north from the bridge and include a shift in the median to the west. This shift would require partial pavement removal as well as additional paving. The average daily traffic volume was 31,619 vehicles per day for the right southbound lane along the project corridor.

Our field investigation included one undisturbed soil boring and two direct push borings to determine the subsurface conditions at the project site and to supplement available subsurface data from the original project plans. The undisturbed boring extended to a depth of 100 feet below the existing ground surface, and the push borings were performed to a depth of 10 feet each below the existing asphalt pavement.

Once the field investigation was completed, we performed soil mechanics laboratory tests in our accredited laboratory in Metairie. Testing included visual classification, natural water content, unit weight, unconfined compression shear, unconsolidated undrained triaxial compression shear, Atterberg limits determinations, and grain size analyses.

Engineering analyses and recommendations for the project included:

- site preparation recommendations including temporary and permanent drainage, clearing and stripping, and demolition;

**PROJECT NO. 03**

<b>PROJECT NO. 03</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
	<ul style="list-style-type: none"><li>• subgrade preparation including recommended fills, their compaction, and estimated fill settlement;</li><li>• areal subsidence;</li><li>• excavation recommendations including OSHA requirements, bracing, opencuts, dewatering and pressure relief, working surfaces, lateral movement, and settlement of the adjacent ground surface;</li><li>• retaining structures;</li><li>• deep foundation analyses including ultimate vertical pile capacity, in compression and tension, for SPC piles supporting the ramp extension and sign relocation; load resistance factors; pile spacing; estimated pile settlement due to structural loads; and differential settlement between the existing bridge and the proposed pile supported road widening;</li><li>• soil/pile interaction analyses for laterally loaded pile groups;</li><li>• pile installation recommendations; and</li><li>• pavement analyses.</li></ul>	
<b>Completion Date (Actual or Estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
04/2019 (A)	Unknown	\$22,500

**PROJECT NO. 04**

<b>Project Name, Location, and Owner's Contact Information:</b>		<b>Nature of Firm's Responsibility:</b>	
<p><b>Westside Terrace Subdivision Tallow Tree Lane Renewal 1045 Orange Blossom Lane Harvey, Louisiana Eustis Engineering Project No. 24677</b></p> <p><b>Contact Information:</b> JLN Properties I, LLC Through Tallow Tree Lane Renewal, LLC 2307 General Taylor Street New Orleans, Louisiana 70115 Jonathan L. Levy @ 225-255-1130</p>		<p>Tallow Tree Lane Renewal, LLC planned to redevelop a portion of the existing Westside Terrace Subdivision in Harvey, Louisiana; a 550' x 220' development was proposed. The site was slated to be a mixture of townhomes or possible multi-use structures, all supported on deep foundations consisting of timber piles.</p> <p>Eustis Engineering performed a geotechnical exploration at the site. This included the drilling of one undisturbed sample type soil test boring and performance of four cone penetration tests (CPTs) all with our in-house crews and equipment. Based on our review of the area geology and considering no more than 12 inches of fill was planned to raise site grades, we selected an exploration depth of 80 feet to characterize the site for this proposed development.</p> <p>Engineering analyses, based on the soil boring, laboratory tests, and CPT data were performed to estimate allowable vertical pile load capacity for timber piles to be used to support the proposed structures. Our report also addressed estimates of settlement of the piles due to structural loads and the site due to fill placement and areal subsidence. We also provided general construction recommendations including pile installation, load testing, and vibration monitoring using experiences developed by our construction phase services in the project area and informed by local building codes.</p>	
		<b>Estimated Cost:</b>	
<b>Completion Date (Actual or Estimated)</b>	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>	
11/2021 (A)	Unknown	\$10,300	

**PROJECT NO. 05**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p style="text-align: center;"><b>State of Louisiana</b>  <b>Department of Transportation and Development</b>  <b>Ames Boulevard Between</b>  <b>the West Bank Expressway and Happy Street</b>  <b>Jefferson Parish, Louisiana</b>  <b>S.P. No. H.011797</b>  <b>F.A.P. No. H011797</b>  <b>Eustis Engineering Project No. 24631</b></p> <p style="text-align: center;"><b>Contact Information:</b>  State of Louisiana Through  Design Engineering, Inc.  Suite 205  3330 West Esplanade Avenue  Metairie, Louisiana 70002  Jeff Monfrey @ 504-836-2155</p>	<p>This project involved renovations and upgrades to a section of the roadway pavement along Ames Boulevard between the West Bank Expressway and Happy Street in Jefferson Parish.</p> <p>Eustis Engineering was brought in to provide construction materials testing and inspection services during the laying of asphalt and concrete for this work; specifically asphalt base course, asphalt binder course, asphalt wearing course, asphalt incidental mix, and Portland cement concrete types B and M.</p> <p>Eustis Engineering's specific duties included molding concrete cylinders, testing asphalt courses, performing inspections, and generally providing quality control oversight to ensure materials and processes conform to manufacturer's specifications, the Job Mix Formula (JMF), and the LaDOTD's criteria.</p> <p>Our field inspectors logged over 50 hours on site for these services. Daily reports were reviewed for quality control by our engineering staff and issued through our online client portal in MetaField.</p>	
<p style="text-align: center;"><b>Completion Date</b>  <b>(Actual or Estimated)</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
08/2021 (A)	Unknown	\$3,500

**PROJECT NO. 06**

**Project Name, Location, and  
Owner's Contact Information:**

**Nature of Firm's Responsibility:**

**Cleveland On the Lake Estates  
Roadway Surcharge and Earthen Surcharge  
Evaluation, Monitoring, and  
Reporting for Existing Roadway  
6000 Cleveland Place  
Metairie, Louisiana  
Eustis Engineering Project Nos.  
24124.00 & 24124.01**

**Contact Information:**  
Khan Metairie Development, LLC  
Through Treuting, Inc.  
3600 Metairie Heights Avenue  
Metairie, Louisiana 70002  
Jack Treuting @ 504-259-4728

The former Beach Club, associated tennis courts, and swimming pool of Cleveland (On the Lakes) Estates subdivision were demolished and plans set to replace them with a new 600-ft long street providing access to 17 new residential lots. Original plans and specifications indicated the residential street would be constructed to the standards of Jefferson Parish Department of Streets and would comprise 7 inches of concrete underlain by 12 inches of compacted sand fill. These plans also called for the excavation and removal of peat and humus materials encountered approximately 2 to 10 feet below the proposed roadway.

In 2019, Eustis Engineering conducted a geotechnical exploration at the site, evaluating a proposed roadway surcharge. The exploration included the drilling of two undisturbed sample type soil test borings to depths of 20 and 60 feet below the existing ground surface. This allowed for determination of subsoil conditions and stratification and acquisition of samples of the various strata encountered. Engineering analyses were made to determine estimates of settlement due to the proposed pavement section before and after the proposed surcharge program, estimates of time-rate of settlement, recommended surcharge height and monitoring schedule, general site preparation, and other construction recommendations for the proposed roadway surcharge.

Eustis Engineering recommended an instrumented surcharge program to reduce post-construction settlement of the proposed roadway. This included using settlement plates monitored by Eustis Engineering to record the actual rate and magnitude of settlement. The surcharge design was intended to limit residual settlement of the roadway to less than 0.2 foot (2.4 inches) over a design life of 20 years. We recommended surficial deposits of low permeability clay be removed and replaced with a layer of select sand fill to allow drainage during the surcharge program. In order to minimize differential settlement to future grade supported features like adjoining driveways, sidewalks, or utilities, we recommended the crown of the surcharge pad extend at least 5 feet beyond the outside curb of the proposed roadway and slope to existing grade on a 4 horizontal on 1 vertical (4H:1V) slope. This transition slope also provided stability of the surcharge stockpile.

Following this initial investigation, Eustis Engineering implemented a three-month surcharge with approximately 2 to 3 feet of surficial low permeability clay deposits removed and replaced with sand fill to the existing grade for

**PROJECT NO. 06**

<b>PROJECT NO. 06</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
	<p>drainage. An additional 5 feet of sand fill was placed above the existing ground surface to surcharge the roadway right-of-way. We installed seven settlement plates along the proposed roadway alignment at the locations designated in our design report.</p> <p>Eustis Engineering performed an initial site visit during the surcharge program, during which we evaluated the transition from the surcharge to the existing street near the entrance to the property. Due to the observed potential for damage to existing utilities, Eustis Engineering agreed the surcharge should be placed up to the edge of the previous driveway then sloped to leave a buffer between the surcharged area and the existing roadway.</p> <p>At the request of Treuting, a second site visit was performed on 11 November 2019 to discuss drainage along the surcharge alignment. Treuting had observed water pooling near the base of the surcharge, so Eustis Engineering recommended swales/ditches be provided along the perimeter of the surcharge to promote drainage. This followed the recommendation that positive drainage of water should be maintained throughout the program, found in our report dated 23 August 2019.</p> <p>Following the program, engineering analyses used to predict settlement of the surcharge were modified based on the observed surcharge settlement curves. These modified models were used to predict post-construction settlement of the roadway section and assess successful completion of the surcharge operations.</p>	
<b>Completion Date (Actual or Estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
04/2020 (A)	Unknown	\$15,100

**PROJECT NO. 07**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p align="center"> <b>Jefferson Parish                      Cleary Avenue Improvements                      Veterans Boulevard to                      West Esplanade Avenue                      Jefferson Parish, Louisiana                      Project No. 2017-014-RBP                      Eustis Engineering Project No. 24137</b> </p> <p align="center"> <b>Contact Information:</b>                      Jefferson Parish Through                      Barowka &amp; Bonura                      Engineers &amp; Consultants, LLC                      209 Canal Street                      Metairie, Louisiana 70005                      Jeffrey Bonura, P.E. @ 504-828-0030                 </p>	<p>Eustis Engineering was selected to provide the construction materials testing services for approximately 2 miles of roadway improvements along the very busy Cleary Avenue in Metairie, Louisiana.</p> <p>Our services on the project included:</p> <ul style="list-style-type: none"> <li>• vibration monitoring during construction activities;</li> <li>• performance of soil mechanics laboratory tests on sand (for embankments) as well crushed concrete and No. 57 limestone (as bedding material). Tests included gradation analyses, Atterberg limits determinations, organic content, standard Proctor (ASTM D698), and relative density (ASTM D4253, D4254);</li> <li>• more than 100 in-place density tests were performed on these same materials to determine if they had been compacted to the minimum levels required by the project's specifications;</li> <li>• review of concrete mix designs intended for use on the project;</li> <li>• inspection of nearly 4,300 cubic yards of concrete placed for street panels, curbs and gutters, driveways, and sidewalks; and</li> <li>• compressive testing of more than 600 concrete cylinders made in association with the above inspection.</li> </ul> <p>Eustis Engineering's personnel worked nearly 1,500 hours on the project. Quality control of our technician's reports was completed prior to issuing daily inspection reports digitally through the MetaField system.</p>	
<p align="center"><b>Completion Date (Actual or Estimated)</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
<p align="center">03/2021 (A)</p>	<p align="center">Unknown</p>	<p align="center">\$69,000</p>

**PROJECT NO. 08**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p align="center"> <b>State of Louisiana</b>  <b>Department of Transportation and Development</b>  <b>Fortune Road Pavement Preservation</b>  <b>Youngsville, Louisiana</b>  <b>LaDOTD Contract No. 4400023717</b>  <b>S.P. No. H.012868</b>  <b>F.A.P. No. H012868</b>  <b>Eustis Engineering Project No. L0585</b> </p> <p align="center"> <b>Contact Information:</b>                      State of Louisiana, Department of Transportation and Development Through Domingue, Szabo &amp; Associates, Inc.                      105 Asma Boulevard, Suite 305                      Lafayette, Louisiana 70508                      Kevin Domingue, P.E. @ 337-232-5182                 </p>	<p>The project consists of road reconstruction on Fortune Road in Lafayette Parish, Louisiana, covering a stretch of road approximately 5,900 feet in length. The scope of the field exploration and testing was developed by Eustis Engineering L.L.C. to meet the State of Louisiana, Department of Transportation and Development (LaDOTD) requirements. Eustis Engineering's role thus far on this project has included the drilling of seven soil test borings in conjunction with coring the existing pavements to evaluate existing pavement components and subgrade subsoil conditions and stratification, and to obtain samples of the various substrata. The soil borings were augmented by the performance of dynamic cone penetration tests (DCPTs) to further evaluate the subsoils. The sampling and testing were conducted to depths of approximately 8 to 9 feet. Soil mechanics laboratory tests were performed on samples obtained from the borings and included visual classification, index testing, and grain-size curves. Based on the soil borings, laboratory tests, and DCPTs, recommendations were made regarding estimated modulus of subgrade reaction (k), California Bearing Ratio (CBR) values, and resilient modulus of the subgrade soils for pavement design.</p> <p>The seasonally adjusted Annual Average Daily Traffic was utilized by the design team to assess the pavement requirements. In addition, engineering analyses have been performed to assess the existing pavements and consider alternatives for overlay and/or reconstruction of the pavement sections. General recommendations regarding site preparation and drainage as well as construction recommendations in accordance with the <u>Louisiana Standard Specifications for Roads and Bridges (LSSRB)</u>, 2016 edition, have also been provided.</p>	
<p align="center"><b>Completion Date (Actual or Estimated)</b></p> <p align="center">07/2023 (A)</p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
	<p align="center">Unknown</p>	<p align="center">\$27,780</p>

**PROJECT NO. 09**

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> <b>State of Louisiana</b>  <b>Department of Transportation and Development</b>  <b>I-10 and I-12 College Drive Flyover Ramp</b>  <b>Design-Build Project</b>  <b>East Baton Rouge Parish, Louisiana</b>  <b>S.P. No. H.013897</b>  <b>F.A.P. No. H013897</b>  <b>Boh Portion 20274-026</b>  <b>Eustis Engineering Project No. B0646</b> </p> <p align="center"> <b>Contact Information:</b>                      State of Louisiana, Department of Transportation                      and Development Through                      G.E.C., Inc.                      8282 Goodwood Boulevard                      Baton Rouge, Louisiana 70806                      Sherry LeBas, P.E. @ 225-612-4107                 </p>	<p>This ongoing project includes a variety of interchange improvements to I-10 West and College Drive including a flyover ramp exit to College Drive in advance of the I-10 and I-12 West merge; a modified exit from I-12 West to College Drive; and a parallel, separated at-grade ramp along I-10 West to the existing College Drive Interchange.</p> <p>Eustis Engineering L.L.C. completed an exploration of the site to supplement available data comprising ten undisturbed borings, eight cone penetration tests, and fourteen auger or direct push borings. Soil mechanics laboratory tests performed on collected samples consisted of natural water content, unit weight, one-point unconsolidated undrained triaxial compression shear, Atterberg liquid limits and plastic limits, grain size sieve analyses, hydrometer analyses, and one-dimensional consolidation tests. These data were published in a GEOT-01 Geotechnical Exploration Data Report that was reviewed by the State of Louisiana, Department of Transportation and Development (LaDOTD) to confirm compliance with their design requirements.</p> <p>The design services included developing separate geotechnical design reports for each of seven major project features, specifically a sound barrier/noise-wall; the roadway (mainline and exit ramps); the Ward Creek Bridge widening; the I-10 Westbound Bridge over I-12, including driven piles and drilled shafts; retaining and/or Mechanically Stabilized Earth (MSE) walls at modified bridge abutments; box culverts or flumes for site drainage; high mast lighting, Intelligent Transportation Systems (ITS); and other miscellaneous features. GEOT-09 is the design report for the roadway. This report included evaluation of temporary and permanent asphaltic concrete pavements as well as temporary and permanent Portland Cement Concrete pavements. The LaDOTD provided reviews of draft and final reports and verified design standards were met. Separate reports were issued for evaluation of temporary and permanent slopes along existing drainage features adjacent to the roadway. We are also participating in weekly progress meetings with the project design team and with the project stakeholders. Design review meetings are conducted as part of the quality review process. Construction is currently ongoing.</p>	
<p align="center"><b>Completion Date</b> <b>(Actual or Estimated)</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
12/2024 (E)	Unknown	\$601,000 (To date)

**PROJECT NO. 10**

<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p align="center"> <b>City of Kenner</b>  <b>Power Boulevard Median Improvements</b>  <b>West Esplanade Avenue to Vintage Drive</b>  <b>Kenner, Louisiana</b>  <b>S.P. No. H.011779</b>  <b>F.A.P. No. H011779</b>  <b>City of Kenner P.W. No. 2014-001B-CIP</b>  <b>Eustis Engineering Project No. 25176</b> </p> <p align="center"> <b>Contact Information:</b>                      City of Kenner Through                      Design Engineering, Inc.                      3330 West Esplanade Avenue, Suite 205                      Metairie, Louisiana 70002                      Brett Liuzza, P.E. @ 504-836-2155                 </p>	<p>The City of Kenner planned for improvements to the Power Boulevard Median, located from its intersection with West Esplanade Avenue to the bridge at Vintage Drive. This improvement effort is set to include a multi-use pedestrian concrete path, subsurface drainage, and a pedestrian bridge. Design Engineering, Inc. (DEI), asked Eustis Engineering L.L.C. to perform material sampling, soil testing in the field, concrete inspection and cylinder pickup, and submittal reviews.</p> <p>In April 2024, Eustis Engineering performed dynamic pile tests (DPTs) on two monitor piles for the subject project at the request of DEI. The scope of service included the performance of DPTs during initial installation (end-of drive, EOD) and restrike DPTs on Pile Nos. 1A and 2H, as well as signal matching CAPWAP® analyses on a select blow from each DPT. Each DPT was performed using Eustis Engineering's Pile Driving Analyzer®(PDA).</p> <p>The tested piles included two 55-ft long, 14-in. square, precast concrete piles, installed vertically with an ICE® I-19 hammer. The DPTs were performed to evaluate each pile's ultimate compressive capacity at the time of testing. The piles were monitored while being driven between 6 and 10 inches for the restrikes.</p> <p>For the DPTs performed on the piles, two sets of PDA instruments were attached to opposite sides of each pile, approximately 2.5 to 3.0 feet below the pile butts. Each set of gauges consists of a strain transducer and an accelerometer. The PDA can monitor a wide variety of quantities during pile driving. Evaluations derived from these drives include installation efficiency, pile integrity, driving stresses, static load capacity, and ultimate capacity.</p> <p>Eustis Engineering has also begun concrete inspection and sampling. Vibration monitoring is also being performed as required for the project.</p>	
<p align="center"><b>Completion Date</b> <b>(Actual or Estimated)</b></p> <p align="center">09/2024 (E)</p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for Which Firm Was Responsible:</b>
	<p align="center">Unknown</p>	<p align="center">\$30,700 (To date)</p>

**TEC Professional Services Questionnaire**

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. None at this time.		
2.		
3.		
4.		

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

When Eustis Engineering L.L.C. opened its first office in Vicksburg, Mississippi, in 1946, it housed its entire operation in less than 500 square feet of space. *Seventy-eight years later*, our personnel and equipment occupy 40,000+ square feet of space in five locations.

*Eustis Engineering is the third oldest, continually operating geotechnical firm in the United States.* From a single two-man office to approximately 115 individuals in five offices, the firm has grown to house accounting, administrative, quality control, safety, drilling, engineering, laboratory, and construction materials testing departments. These departments work together to provide our clients with the quality work desired in a cost efficient and timely manner.

*Eustis Engineering is headquartered in Metairie, Louisiana, in the heart of Jefferson Parish’s East Bank.* We also operate branch offices in Baton Rouge and Lafayette, Louisiana, Gulfport, Mississippi, and Houston, Texas. Our offices and staff collaborate seamlessly using Microsoft Teams and other virtual platforms.

Eustis Engineering’s services encompass many disciplines including the performance of:

- subsurface exploration (drilling of soil borings, cone penetration testing, downhole vane, and Geoprobe®);
- soil mechanics laboratory tests;
- field instrumentation and monitoring;
- non-destructive testing of piles and shafts including dynamic pile testing, crosshole sonic logging, single-hole sonic logging, low strain pile integrity testing, and thermal integrity profiling;
- geotechnical engineering design;
- special inspections; and
- construction quality control and materials testing services.

Eustis Engineering L.L.C. Important Numbers	
Item	Number
Unique Entity Identifier (UEI)	R83MG9NLTMS4
CAGE Code	4MOP2
Firm License - Louisiana	EF.0003558
Firm License - Mississippi	2078
Firm Registration – Texas	13895

Eustis Engineering has worked on over 850 geotechnical and construction materials testing projects for Jefferson Parish Government entities, approximately 165 of which focused on street projects, pavements, and similar infrastructure. We have also worked on over 4,000 projects of all types throughout the east and west banks of Jefferson Parish alone, not considering similar projects in the surrounding parishes. This work history

gives our engineering staff unparalleled familiarity with the foundation conditions in the Gulf Coast and the challenges that may arise for projects associated with this contract.

## **ENGINEERING SERVICES**

Eustis Engineering has geotechnical engineering capabilities to fulfill the requirements of nearly any project. As evidenced by the included write-ups in this package, our experience with various pavement and infrastructure projects is varied and extensive.

Eustis Engineering's design teams evaluate pavement subgrades and provide recommended pavement component thicknesses for rigid and flexible pavements, including permeable, pervious, and impervious systems. We also evaluate pavement materials and mix designs. Our evaluation of bearing capacity considers the excavation depth, base preparation, and utility diameter. We have developed pile capacity and bearing capacity analyses for projects throughout Jefferson Parish and the coastal areas of the United States. Eustis Engineering's evaluation of piles includes estimates of vertical capacity for groups. We also perform lateral analyses of individual piles and pile groups using LPILE® and GROUP® software.

We evaluate local and deep-seated global stability of canals, waterway slopes and embankments as well as excavation shoring and sheeting. We provide assessments of heave, seepage and erosion control measures. We evaluate floodwalls, including I-walls, L-walls, T-walls and gates.

We perform settlement studies including estimates of settlement and time-rate of settlement with and without wick drains to enhance consolidation. These settlement studies include estimates and recommendations for lift construction affecting a gain-in-strength of foundation soils associated with subsoil consolidation. Preload/surcharge operations are also a component of our settlement evaluations.

In our practice, Eustis Engineering has developed methodologies associated with the estimates of negative skin friction on pile foundations. The methods are the current state of practice. The extension of these methods is an evaluation of settlement induced bending moments. Eustis Engineering is also utilizing a numerical model program, SIGMA/W, in association with the rigorous settlement program Settle3.

## **Engineering Staffing**

Our engineering staff has 20 master's degrees in Civil Engineering, Engineering, Engineering Management, Geology, and Business Administration. Participation in post-Bachelor of Science curricula, as well as continuing education and professional registration that emphasizes engineering management and technical issues, is very important to Eustis Engineering. Our engineers also regularly present at technical conferences. We encourage and fund our staff for these activities and programs.

Employee	Education	Experience	
		Years with Eustis Engineering	Total Years
<b>Professional Engineers (P.E.)</b>			
Benjamin M. Cody	M.S. / Civil Engineering	22	26
Brian A. Deschamp	B.A. / Business Administration	12	12
	M.S. / Civil Engineering – Geotechnical		
P. Tennant Duckworth	M.S. / Civil Engineering	3	3
James J. Hance	M.S. / Civil Engineering	20	24
	M.B.A. / Business Administration		
Chad L. Held	M.S. / Civil Engineering	33	33
Matthew K. Morales	B.S. / Civil Engineering	15	15
Tomas K. Morales	B.S. / Civil Engineering	10	10
Travis R. Richards	M.S. / Engineering	17	24
	M.S. / Engineering Management		
	Coastal Engineering Certificate		
Chad D. Roe	M.S. / Civil Engineering	1	11
Gwendolyn P. Sanders	M.S. / Engineering	31	31
Sanjay S. Shahji	M.S. / Civil Engineering	1	18
Shaun R. Simon	M.S. / Civil Engineering	24	24
Alice E. Stark	M.S. / Civil and Environmental Engineering	<1	8
Patrick A. Thurmond	M.S. / Engineering Management	9	9
	M.S. / Civil Engineering		
	Coastal Engineering Certificate		
Sean G. Walsh	M.S. / Civil Engineering	11	16
James M. Williams	M.S. / Civil Engineering	6	6
Henry C. Worley	M.S. / Engineering	6	7
	Coastal Engineering Certificate		
<b>Engineering Interns (E.I.)</b>			
Adam K. Abdulbagi	B.S. / Civil Engineering	1	1
Naba Almofraji	B.S. / Civil Engineering	<1	6
Alvaro E. Carvajal	B.S. / Civil Engineering	1	1
Joseph P. DiGiovanni	B.S. / Civil Engineering	1	1
Steven B. Tidwell	B.S. / Geological Engineering	<1	13
<b>Engineering Graduates</b>			
Alexander Soriano Doninelli	B.S. / Civil Engineering	<1	4
Lesley L. Reitmeyer	B.S. / Civil Engineering	15	15
Xia (Bruce) Xialong	PhD / Geotechnical Engineering	<1	10
	M.S. / Geotechnical Engineering		

Geologists			
Matthew J. Blasini, G.I.T.	B.S. / Geology	5	6
Nathan A. Quick, P.G.	M.S. / Geology	2	7
Total Years of Experience		246	341

*Reviewing our table, the majority of Eustis Engineering’s professional engineers have at least ten years of experience in geotechnical engineering.*

**Cone Penetration Testing Capabilities**

Eustis Engineering owns two dedicated track-mounted cone penetration test (CPT) rigs and operates four other multi-purpose rigs capable of performing CPTs. Operators are either specifically trained engineering technicians or engineers who perform field operations utilizing the CPT equipment. Engineers with specialized knowledge and experience operating the rigs evaluate the sounds and produce the CPT logs. Five of our rigs can be placed on a cargo buggy, shallow draft barge, or airboat to access coastal marsh or open water. We have sounded to depths of 180 feet and have the ability to perform dissipation and seismic testing. Field testing is performed according to ASTM D5778 and common industry practices. Eustis Engineering has been performing CPTs and using CPT technology since the early 2000s.

A CPT can be accomplished rapidly with four or five being performed in the same time frame as a standard geotechnical boring; therefore, CPTs are typically cost-effective in providing enhanced subsurface exploration and better delineation of subsurface conditions at a project site.

**Dynamic Pile Testing Capabilities**

Eustis Engineering was the first private consulting firm to own and operate dynamic pile testing equipment in the States of Louisiana and Mississippi. The pile types tested include timber piles; small size pipe piles; square, precast concrete piles and large (60 to 72-in. diameter) spun-cast, prestressed concrete piles; open-end and closed-end steel pipe piles; and steel H-piles.

We often upgrade our data collectors and operate four Pile Driving Analyzers® (PDAs): one PAX unit and three PDA-8G units. These units can be battery operated and use wireless gauge transmitters to eliminate the need for a main cable to connect directly to the units. We also stock and use underwater gauges to monitor pile driving in marine environments when the pile head descends below the water surface. To support our four PDA units, Eustis Engineering maintains an extensive inventory of calibrated gauges and accessories. To provide quality assurance and rapid responses to issues in the field, all PDAs have wireless communication, enabling our engineers direct oversight of the dynamic pile testing process in real time.

We also use this PDA equipment to maintain the calibrations of our automatic Standard Penetration Test (SPT) hammers on our drill rigs.

**Other Non-Destructive Testing Capabilities**

Our engineering staff at Eustis Engineering performs other non-destructive testing services to verify the structural integrity of drilled shafts, augercast piles, and precast concrete piles. Some of these processes

include crosshole/single-hole sonic logging (CSL or SSL), low strain pile integrity testing (PIT), and thermal integrity profiling (TIP™). We also perform parallel seismic testing to evaluate existing foundation depths.

## **INSTRUMENTATION**

Eustis Engineering has installed geotechnical instrumentation for decades. Our instrumentation programs have resulted in substantial cost savings to our clients by reducing preload durations, providing refinement of geotechnical design parameters through full-scale testing, and verifying the performance of cutting-edge designs. Our services go beyond the construction phase, as long-term monitoring programs enable owners to maximize utilization of their facilities throughout the design life by verifying if soil behavior is within acceptable limits.

Eustis Engineering provides the following instrumentation services:

- Vibrating wire devices including piezometers, extensometers, settlement gauges, and strain gauges
- Data loggers to enable periodic collection of data for vibrating wire devices
- Data links for remote web access to data loggers in near real time
- Settlement plates
- Conventional slope inclinometers or MEM sensor array inclinometers and tiltmeters
- Monitoring services of all instrumentation devices with geotechnical interpretation

Instrumentation is a natural complement to our design services, providing data to verify or modify recommendations based on the observational method. Ongoing monitoring enables us to provide continuing services from project inception to the end of a project's design life.

## **DRILLING/FIELD EXPLORATION**

Eustis Engineering possesses licenses and credentials to perform geotechnical drilling in Louisiana and Mississippi (no license is needed in Texas). With our licenses and credentials, Eustis Engineering drills soil borings and performs sampling operations for our clients' projects in all types of environments including land, marsh, swamp, and marine. Our personnel have the capability and experience to provide these services from trucks, barges, pontoons, and swamp or marsh buggies. We also have portable units that can be used inside structures planned for retrofit/renovations.

### **Field Exploration Personnel**

We can provide up to nine drillers and drill rigs capable of obtaining standard 3-in. diameter Shelby tube samples and 5-in. diameter fixed piston samples, sounding CPT, advancing Geoprobe samplers, and installing geotechnical instrumentation on land, in water, and in marsh environments as indicated in the following table.

Capabilities of Eustis Engineering's Field Exploration Staff	Blair Armant	Scott Bombard	James Cordes	Tevin Crawford	Rene Davidson	Eric Held	James Lubben	George Reitmeyer	Lawrence Rome
Hand Auger Borings	X	X	X	X	X	X	X	X	X
General Type (3-in. Diameter Borings)	X	X	X	X	X	X	X		X
General Type (3-in. Diameter Borings) in Hard Access Locations (Marsh, Swamp, Heavily Forested)	X	X	X	X	X	X	X		X
Undisturbed Type (5-in. Diameter Borings)	X	X	X	X	X	X	X		X
Undisturbed Type (5-in. Diameter Borings) in Hard Access Locations (Marsh, Swamp, Heavily Forested)	X		X	X	X	X	X		X
Location Information (Latitude, Longitude)	X		X	X	X	X	X		X
Set Permanent Benchmarks	X		X	X	X	X	X		X
Install Instrumentation	X		X	X	X	X	X		X
Cone Penetration Tests						X		X	
Geoprobe Sampling		X	X			X	X		X

### Field Exploration Equipment

Eustis Engineering owns and operates six wet rotary drill rigs, both truck-mounted and skid-mounted. This equipment includes one Diedrich truck-mounted D-50 turbo drill rig (with an automatic SPT hammer); one Failing skid only rig (with an automatic SPT hammer); one truck-mounted CME-55 rig; one track-mounted CME-850X rig with an automatic hammer; one track-mounted CME-850XR rig with an automatic hammer; and one truck-mounted CME-55 rig with a detachable CME-55 skid unit and automatic hammer. We also own two track-mounted cone penetrometer systems capable of providing up to 15 tons of reaction. Our CME track rigs provide low ground pressure and are designed to traverse soft ground surfaces, steep slopes, and lightly wooded areas. Eustis Engineering also owns four direct push Geoprobe units: two 3230DTs, the 6620DT, and the 540M. Eustis Engineering's 6620DT/3230DT Geoprobe with their 12-in. tracks allow this equipment to be used on pavement as well as off road and in rugged terrain. The 6620DT and 3230DT rigs also can be placed on specialized equipment. This includes a jack-up barge and a cargo buggy for operations over marsh/water. These units can install shallow monitoring wells and other instrumentation. We also have the capability to perform CPTs and downhole vanes using the 3230DT rigs.

Our 540M Geoprobe can fit into confined spaces as narrow as 32 inches. The 540M can also be utilized on an airboat for coastal terrains.

### Other Specialized Soil Sampling Equipment

In addition to our drill rigs, Eustis Engineering owns and operates an Acker Vane Shear to perform down hole in-situ testing. We also have hand augers to obtain samples at various depths for use in classification and stratification of soil deposits. This equipment can be used in association with handheld piston samplers to obtain small diameter samples. Finally, we operate a dynamic cone penetrometer to assess the in-situ strength of undisturbed soils and compacted materials in accordance with ASTM D 6951.

### Drone Capabilities

Eustis Engineering utilizes small Unmanned Aerial Systems (sUAS), more commonly known as “drones,” to enhance our services. We use drones to perform site inspections, field reconnaissance, pre/post-construction condition surveys, construction inspections, and other forms of visual monitoring. We currently operate a DJI Mavic Air 2S Drone piloted by a Part 107 Certified Remote Pilot.

### **LABORATORY SERVICES**

Eustis Engineering’s laboratories are constantly evolving with the purchase of new equipment on a yearly basis. Our gINT® data management software from Bentley allows for maximum efficiency in the production of boring logs and data entry.

Eustis Engineering has also acquired OpenGround®, Bentley’s Cloud platform, which interfaces with a collection of geotechnical applications. OpenGround provides a comprehensive solution for collecting, reporting, managing, visualizing, analyzing, and accessing data. Its advanced digital workflows combine both subsurface and surface data into one cohesive design. This software provides Eustis Engineering’s team members access to a data source via connected applications or a web portal, increasing both collaboration and efficiency. Improved access and reliability will save time and money in the planning, design, analysis, construction, and operation of infrastructure projects.

Eustis Engineering has also acquired KeyLAB® from Bentley. KeyLAB is the leading laboratory management system built specifically for geotechnical and construction materials testing laboratories. It improves our laboratory efficiency at every stage of the geotechnical and construction testing process, including sample and storeroom management, as well as electronic scheduling, testing, and reporting. It integrates with Microsoft Excel®, allowing for the efficient development of customized worksheets and reports.

Technical testing common to our laboratories includes ASTM; American Concrete Institute (ACI); State of Louisiana, Department of Transportation and Development (LaDOTD); AASHTO; FAA; and the U.S. Army Corps of Engineers (USACE). Our laboratories hold accreditations from AASHTO, LaDOTD, and the USACE.

### Laboratory Staffing

Eustis Engineering currently has qualified technicians to sample construction materials and perform soil mechanics laboratory testing. These technicians are versed in the latest standards from ASTM, LaDOTD, MDOT, AASHTO, FAA, and the USACE. Many of our technicians have earned certifications with the National Institute for Certification in Engineering Technologies (NICET) in the area of geotechnical engineering technology and in the subfields of construction, exploration, generalist, and laboratory.

## Laboratory Quality Control

In our effort to ensure the quality of our laboratory and materials testing, our programs are regularly inspected by outside agencies such as the USACE, the AMRL Group of the American Association of State Highway and Transportation Officials, and the CCRL Group of AASHTO. Eustis Engineering is also accredited by the Mississippi Department of Transportation.

Eustis Engineering has three soil mechanics laboratories where our laboratory practices and quality management system meet the requirements of AASHTO R 18 and ASTM E329. These offices are located in Metairie, Baton Rouge, and Gulfport. Individual offices may comply with ASTM quality system specifications including ASTM C1077, ASTM D366, and ASTM D3740. Accreditations in the various areas are shown below.

Metairie	Baton Rouge	Gulfport
Aggregate	Aggregate	Aggregate
Concrete	Soil	Asphalt
Masonry	Concrete	Concrete
Soil	Spray Fire-Resistive Material	Soil
		Spray Fire-Resistive Material

To further show quality is paramount to Eustis Engineering, we have two individuals in charge of maintaining quality in our testing. Travis R. Richards, P.E., is the Engineer-In-Charge. Timmy Holleman, dedicated Quality Control Manager, oversees the calibration of our equipment and maintenance of our quality system. The biggest reward of our quality system is knowing our clients are confident our testing laboratories produce the highest quality results and conform to state and national standards.

## **CONSTRUCTION MATERIALS TESTING**

Eustis Engineering has been involved in construction materials testing (CMT) and inspection on a regular basis since the mid-1980s. Over the past 30+ years, Eustis Engineering has accumulated a wealth of experienced technicians in these areas. Whether 20 feet down in an excavation or 20 stories up in a high rise, our CMT technicians are there providing the inspection services needed on individual projects.

### Staffing

Eustis Engineering currently has nearly 30 technicians on staff to provide construction inspection services on a daily basis. These services encompass the areas of soils, piling, asphalt, concrete, steel, and others.

### Services

Soils testing in the field is performed by means of density tests, fill placement inspection, and depth checks. These services are performed by technicians who have attended courses by Troxler or Humboldt in the use of nuclear density devices.

Piling services include the inspection of various types of piles, logging these piles, and performance of pile load tests with calibrated equipment. Load test results are, in turn, interpreted and reported by a registered engineer on our staff.

Our realm of concrete inspection includes the formulation and review of mix designs, quality control at the plant and in the field, materials testing and sampling, precast piling inspection, post tension inspection, floor flatness, and mortar and grout inspection. These services are performed by our ACI and NICET certified technicians.

Steel inspection may include the visual inspection of structural steel at the site or in the shop, steel and pipe coating sampling, post tension and welder certification witnessing, and the performance of ultrasonic and x-ray testing. These services are performed by members of our staff currently certified with AWS, ASNT, and/or ASME.

Other CMT services provided by Eustis Engineering personnel include fireproofing inspection, vibration and acoustical monitoring, paint inspection, and more.

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

Signature:   
Title: President

Print Name: Gwendolyn P. Sanders, P.E.  
Date: 8 July 2024