

## TEC Professional Services Questionnaire

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

**Professional Service Engineering and Supplemental Services for a Drainage Master Plan for the East Bank of Jefferson Parish**  
**SOQ #22-014**  
**Resolution No. 138896**

**B. Firm Name & Address:**

**Meyer Engineers, Ltd.**  
**4937 Hearst Street, Suite 1B**  
**Metairie, LA 70001**



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

**Richard C. Meyer, P.E., President (License No. 24012)**  
**4937 Hearst Street, Suite 1B**  
**Metairie, LA 70001**  
**504-885-9892**  
**rickmeyer@meyer-e-l.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.**

**David H. Dupre, P.E., Vice President (License No. 23422)**  
**4937 Hearst Street, Suite 1B**  
**Metairie, LA 70001**  
**504-885-9892**  
**ddupre@meyer-e-l.com**

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

<u>2</u> Administrative	– Estimators	<u>1</u> Specification Writers
<u>5</u> Architects (Licensed)	– Geologists	– Structural Engineers
– Chemical Engineers	– Geotechnical Engineers	<u>1</u> Graduate Engineers
<u>12</u> Civil Engineers	<u>1</u> Interior Designers	– Project Managers
<u>30</u> Construction Inspectors	– Landscape Architects	<u>7</u> Clerical
– Ecologists	– Land Surveyor	– Grant/Funding Specialist
– Electrical Engineers	<u>1</u> Mechanical Engineers	– Sanitary Engineers
<u>1</u> Engineer Intern	– Environmental Engineers	
– Professional Land Surveyors		
		<b><u>61</u> 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

**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: N/A  
YES \_\_\_ NO \_**

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. All South Consulting Engineers 652 Papworth Avenue Metairie, LA 70005	Topographic Surveying	Yes
2. BFM Corporation, LLC 15 Veterans Memorial Boulevard Kenner, LA 70062	Topographic Surveying	Yes
3. Bryant Hammett & Associates 1104 Dealers Avenue Harahan, LA 70123	Topographic Surveying	Yes
4.		

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

## 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.**

<b>PROFESSIONAL IN CHARGE OF PROJECT</b>	
Name & Title:	<b>Donovan P. Duffy, P.E., Civil Engineer</b>
Project Assignment:	<b>Senior Project Manager</b>
Name of Firm with which associated:	<b>Meyer Engineers, Ltd.</b>
Years' Experience with this Firm:	<b>6</b>
Education: Degree(s)/Year/Specialization:	<b>B.S. Civil Engineering 2013/M.S. Business Administration/2015</b>
Active Registration: Year first registered/discipline:	<b>2017/Civil Engineering/LA License #41844; TX License #41844; FL License #85196, USVI License #0-41921-1B</b>



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

Donovan Duffy, P.E. has over nine (9) years of experience in Civil and Structural Engineering and Construction Management and has a Master's in Business Administration. **He fulfills the Minimum Personnel Requirement to be a LA Registered Engineer with a minimum of five (5) years' experience.** He has extensive experience leading design and construction administration operations within a diverse range of industries and government entities. He specializes in **drainage design, including hydraulic modeling.** He has been an **expert witness** on both the Woerner Sod Farm Drainage Litigation and the 3<sup>rd</sup> Street Canal Improvements. He is also involved in many fields of civil engineering design including roads, drainage, sanitary sewer: collection, lift stations, force mains and treatment systems, water treatment and distribution networks, environmental and recreation. His experience in construction administration includes coordination with contractors and clients; organization, oversight, and record-keeping of pre-construction and construction progress meetings; shop drawing review; evaluation of change orders and pay requests; and various other construction coordination responsibilities. He is experienced in **Hydraulic Modeling using SWMM, PCSWMM, HEC-RAS, HydroCad, ARCGIS, and QGIS software.** He recently attended a PCSWMM seminar in Atlanta to serve as a guest **presenter for his modeling efforts** on numerous projects in the South Louisiana area. He has designed projects in accordance with DOTD's "Roadway Design Manual", "Hydraulics Manual", "Bridge Manual", AASHTO's "Green Book", the "Louisiana Standard Specifications for Roads and Bridges", "American Concrete Institute Standards", "Recommended Standards for Wastewater Facilities (Ten States Standards)" and the "AISC Manual of Steel Construction".

**Beaver Creek Drainage Improvements/Retention Pond, Tangipahoa Parish**

Project Engineer preparing the **Hydrology & Hydraulics Report and Benefit Cost Analysis** for the Beaver Creek drainage basin in the Village of Tangipahoa at the intersection of LA Hwy. 51 and LA Hwy. 44 (Center Street) which will include analyzing the effects of the upstream and downstream flow for the Beaver Creek Drainage Basin between Interstate 55 and Tangipahoa River and performing **Hydraulic Analysis** for the 25- and 100-year design storm event using **HEC-RAS and PCSWMM** projects. The construction estimate for drainage improvements is \$2.85M.

**St. Bernard Master Drainage Plan, St. Bernard Parish**

Project Manager in charge of the **Drainage Master Plan** for St. Bernard Parish. The study limits were the Orleans Parish line, Mississippi River Levee, and the Lake Borgne Basin Levee District Back Protection Levees. During the first phase maps were prepared to identify flood prone areas, repetitive loss areas, and areas which have flooded in the past. The second phase of the project included **hydraulic modeling, and impact hydraulic analysis** for all major canals in St. Bernard Parish. **Lidar data** was used to show the water surface elevations for the required design storms. During the third phase of the project, a preliminary probable construction cost, a prioritized list of recommended projects and a final report were completed.

**Montz Master Drainage Plan, St. Charles Parish**

Project Manager who prepared the **Master Drainage Plan** for Montz in St. Charles Parish. The study limits were from LA 3217 in Laplace to the spillway levee in St. Charles Parish. The scope included performing a **hydraulic impact study** for both existing and proposed conditions. The study included work along Airline Highway and took the future West Shore Levee Project into consideration.

**Louisiana Watershed Initiative Projects, City of Slidell**

Project Manager for the drainage improvement projects selected by the City of Slidell to be included in the Louisiana Watershed Initiative Round 1 Funding Application. The work included creating a **hydraulic model of two drainage basins, using PCSWMM 2D modeling software,** and analyzing the impacts of drainage improvements for 25, 50 and 100-year storms. **Lidar data** was used to estimate the water surface elevations for existing and proposed conditions. Finally, a FEMA Benefit Cost Analysis was created to determine the benefit cost ratio of each project. Two of the three applications filled out by Meyer were selected to be funding during phase one of the program.

**Bissonet Plaza Master Drainage Plan, Jefferson Parish**

Project Manager for **drainage improvements** for the area bounded by Power Boulevard, Kawanee Avenue, Apollo Drive & W. Esplanade Avenue. The work consisted of using **SWMM to model the project area's subsurface drainage network and major outfalls,** including Canal No. 2 and Esplanade Canal. He utilized the existing Jefferson Parish East Bank **Master Drainage Model** to determine canal elevations throughout the 10-year 24-hour design storm. Meyer provided a **drainage report** with recommended improvements, and we are currently designing the first phase of the drainage improvements for construction.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT</b>	
Name & Title:	<b>Richard C. Meyer, P.E., President</b>
Project Assignment:	<b>Principal In Charge</b>
Name of Firm with which associated:	<b>Meyer Engineers, Ltd.</b>
Years' Experience with this Firm:	<b>40</b>
Education: Degree(s)/Year/Specialization:	<b>B.S. Civil Engineering 1980</b>
Active Registration: Year first registered/discipline:	<b>1988 /Civil Engineering/LA License #24012</b>
<b>Other experience and qualifications relevant to the proposed project:</b>	
<p>Richard C. Meyer, P.E. is President of Meyer Engineers, Ltd. a New Orleans based Architectural and Engineering firm that has provided professional consultant services to the New Orleans area for over fifty (50) years. <i><b>He fulfills the Minimum Personnel Requirement for a Principal to be a LA Registered Professional Civil Engineer.</b></i> He has forty (40) years of relevant experience including overseeing architectural/engineering design, construction management and QA/QC contracts with various agencies at the Federal, State, and local levels in the Greater New Orleans Metropolitan area. He is involved with all aspects of administering architectural/engineering projects including client contact, cost estimates, design, contract administration, and contract closeout. He coordinates the architectural/engineering staff and has participated in most of Civil Engineering design including structural, sanitary and storm sewerage, roads and bridges, water, and airport designs. He has significant design experience including storm drainage modeling and storm drainage improvements.</p> <p><u><b>Drainage District No. 9 Drainage Master Plan, Jefferson Parish</b></u> Principal-in-Charge for the <i><b>Storm Water Management Plan for Drainage District No. 9 that included 24 major drainage canals and 2 pump stations</b></i> draining an area of approximately 12,500 acres. Field investigations were scheduled to gather culvert, bridge, and utility crossing information for each canal. <i><b>HEC-1 runoff hydrographs</b></i> were tabulation for each canal. The <i><b>UNET model</b></i> produced stage and flow data for each canal. Design included detention ponds at recreation facilities and in public right-of-way, retention ponds throughout the system in and near <i><b>major drainage canals, multiple major drainage pump stations</b></i>, including the <i><b>Whitney Barataria 3,000 CFS pump station</b></i> design by Meyer. Construction Cost: \$21M</p> <p><u><b>Lafitte Drainage Improvement Program, Jefferson Parish</b></u> Principal-in-Charge for the engineering and project management services for the design, preparation of plans and specifications, and construction administration for the <i><b>Drainage Improvement Program</b></i>. The project included the installation of more than 30,000 linear feet of subsurface drainage on 27 different streets throughout the Town of Jean Lafitte and surrounding areas to improve the drainage conveyance to the existing pump stations. Construction Cost: \$6.7M</p> <p><u><b>St. Bernard Master Drainage Plan, St. Bernard Parish</b></u> Principal in Charge for the <i><b>Drainage Master Plan</b></i> for St. Bernard Parish. The study limits were the Orleans Parish line, Mississippi River Levee, and the Lake Borgne Basin Levee District Back Protection Levees. During the first phase maps were prepared to identify flood prone areas, repetitive loss areas, and areas which have flooded in the past. The second phase of the project included <i><b>hydraulic modeling, and impact hydraulic analysis</b></i> for all major canals in St. Bernard Parish. During the third phase of the project, a preliminary probable construction cost, a prioritized list of recommended projects and a final report were completed.</p> <p><u><b>Elmwood Business Park Drainage Study, Jefferson Parish</b></u> Principal-in-Charge for the <i><b>Drainage Study</b></i> of the Elmwood Business Park area, which was bounded by Citrus Boulevard, G Street, Sams Avenue, and Edwards Avenue. The business park area studied was predominantly commercial establishments consisting of approximately 190 acres. The <i><b>drainage analysis</b></i> entailed applying the Rational Method for a 10-year storm event. At the time of the drainage analysis, the Mounes Street Extension was under construction from Edwards Avenue to Dickory Avenue. Drainage system upgrades were recommended for each street. If all streets within the study area have internal drainage improved, the estimated construction cost was estimated to be approximately \$10.2 Million.</p> <p><u><b>Soniat Canal/Earhart (Cross Canal) Physical Hydraulic Modeling Study, Jefferson Parish</b></u> Principal-in-Charge for preparing the <i><b>Hydraulic Modeling &amp; Report</b></i> to summarize the losses within the intersection of Soniat Canal and Earhart (Cross Canal) and make recommendations for improvements.</p>	



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<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT</b>	
Name & Title:	<b>Raymond G. Hartley P.E., Civil Engineer</b>
Project Assignment:	<b>Program Manager</b>
Name of Firm with which associated:	<b>Meyer Engineers, Ltd.</b>
Years' Experience with this Firm:	<b>5</b>
Education: Degree(s)/Year/Specialization:	<b>B.S. Civil Engineering 1978</b>
Active Registration: Year first registered/discipline:	<b>1982/Civil Engineering/LA License #20084</b>
<b>Other experience and qualifications relevant to the proposed project:</b>	
<p>Raymond G. Hartley, P.E. has served throughout his 43-year engineering career in all aspects of engineering design, construction management and more recently into asset management and program management. He has completed successfully a multitude of projects from planning and conceptual stage through design and finally through construction. A number of these efforts required developing financial solutions to allow the project to continue. Mr. Hartley served as a <i>program manager of various wastewater agencies</i> dealing with their day-to-day asset management issues, operational issues, and developing a strategic outlook for the sustainable growth of the agency. As the <i>Program Manager of the City of Atlanta Department of Watershed Management "Clean Water Atlanta" program</i>, he worked closely with the leadership team to develop a comprehensive 10-year CIP on the water, wastewater, and storm drainage utilities and to prioritize the projects in accordance with the available funding mechanism. This required multiple meetings with the department leadership, administration, and council members to ensure the merits and prioritization matched the expectations of the stakeholders.</p> <p><b><u>Program Manager</u></b></p> <p>Oversaw all program employees including numerous minority business partners and developed &amp; managed the resources on strategic initiatives as required for the watershed department to function in an optimal fashion and level. During this period, he served as <i>Program Manager of the City of Atlanta's "Clean Water Atlanta"</i>, one of the highest-profile consent decree-driven environmental remediation programs of its kind in the nation. Public acceptance and limited financial impact on the community was critical to program success. He performed and/or oversaw the following services as part of his PM activities:</p> <ul style="list-style-type: none"> <li>✿ Advised and assisted the client in development, management, and execution of its Capital Improvements Program.</li> <li>✿ Lead and supported multi-disciplinary teams in the execution of the Water Supply Program that consisted of converting an existing stone quarry into a raw water reservoir and installing 25,000 feet of 10-foot diameter tunnel to provide citizens/region with a 30-day supply of water.</li> <li>✿ Developing, negotiating, and managing consultant services and their authorization for Program Management services.</li> <li>✿ Working with Department staff in the coordination of all deliverables including presentations to mayor, council, and civic groups.</li> </ul> <p><b><u>Hurricane Katrina Recovery Manager</u></b></p> <p>Served as <i>Hurricane Katrina Recovery Program Manager</i>, overseeing/managing the multi-sector efforts of a national engineering firm (MWH) on the municipal/Federal and environmental sectors of various projects for various clients in the recovery after the storm. During this period, he was responsible for securing over \$53M in new work immediately after the storm and delivering the products in a manner that allowed FEMA to fund the majority of the cost.</p> <p><b><u>Project Engineer/Project Manager</u></b></p> <p>Served as Project Engineer/<i>Project Manager</i>, provided engineering design services and construction management for infrastructure projects which included pipelines (both new &amp; rehabilitation projects), pump stations, and treatment plants. He also provided facility planning services on several projects. During this time, he was promoted to be the overall project manager of the program upgrade to meet an EPA consent decree in Jefferson Parish. He was responsible for overall delivery of the design to the client, compliance with local ordinances and regulations, coordination with all client departments including sewerage, roads and bridges, water, and drainage. He was also responsible for the bidding of 16 separate contracts within the sub region, and the overall construction management (ESDC) of all aspects of this wastewater program. During the design phase he was responsible for the layout, hydraulic calculations, coordination with client, coordination with internal civil, structural, and electrical staff for the preparation of plans and specifications for a 7.5 MGD Avg., 63 MGD peak wastewater treatment plant expansion/upgrade.</p>	



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<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT</b>	
Name & Title:	<b>David H. Dupré, P.E., Vice President</b>
Project Assignment:	<b>Civil Engineer</b>
Name of Firm with which associated:	<b>Meyer Engineers, Ltd.</b>
Years' Experience with this Firm:	<b>32</b>
Education: Degree(s)/Year/Specialization:	<b>B.S. Civil Engineering 1984</b>
Active Registration: Year first registered/discipline:	<b>1989/Civil Engineering/LA License #23422</b>
<b>Other experience and qualifications relevant to the proposed project:</b>	
<p>David H. Dupré, P.E. has over thirty-five (35) years of experience in Civil and Structural Engineering, Project Management and Construction Management and is involved with all aspects of administering engineering projects which include client contact, cost estimates, design plans and specification, construction administration, and preparation of reports. He is currently the Chairman of the New Orleans Chapter of the American Council of Engineering Companies (ACEC). He participates in most facets of Civil Engineering design including roads, bridges, drainage, sanitary sewer, water, and environmental. As Vice-President he manages the engineering staff and has significant experience with larger/complex road and drainage projects such as the \$50M Whitney Barataria Pump Station in Jefferson Parish and a portion of the design on the \$150 million Paths to Progress Road Program for LADOTD. He is a board Member and former New Orleans Chapter President (ACEC) and is also a member of SAME, ASCE, APWA, CMAA and LES.</p> <p><b><u>Crown Point Drainage Improvements, Jefferson Parish</u></b>            Project Manager for the design and construction administration on <i>two (2) drainage improvement projects and two (2) drainage pump stations</i> in Crown Point. These projects will provide drainage support for the levees that are being designed in the Crown Point Drainage Basin. Drainage trunk lines vary from 24" RCPA to 60" RCPA. A 6' x 4' box culvert was designed to cross under LA 560. Flap gates on drain lines, road repair and water line offsets are included. Drainage calculations included the Rational Formula for gravity plan flow, the National Resources Conservation Service (NRCS) for the DOTD highway crossings and the <i>PCSWMM Modeling for the drainage pump stations</i>. Construction Cost: \$12.3M (EST)</p> <p><b><u>Mile Branch Drainage, St. Tammany Parish</u></b>            Project Manager for the Mile Branch Drainage project. The Mile Branch <i>Drainage Canal</i> between 11<sup>th</sup> Street and 23<sup>rd</sup> Street Canal in Covington, Louisiana has experienced erosion issues. The project will provide a preliminary analysis of four (4) reaches of this canal. The four (4) reaches include: West Magnolia to Glockner Lane, West 16<sup>th</sup> Avenue to West 17<sup>th</sup> Avenue, West 20<sup>th</sup> Street to 21<sup>st</sup> Street and West 22<sup>nd</sup> Avenue to West 23<sup>rd</sup> Avenue. Construction Cost: \$9M (EST)</p> <p><b><u>Drainage Improvements to Lime Street, Jefferson Parish</u></b>            Project Manager for the <i>drainage improvements</i> and street reconstruction for Lime Street from W. Esplanade Avenue to Veterans Boulevard. The work consists of designing drainage improvements, complete road reconstruction and widening, sewer and water improvements and coordinating with sewer and water departments on water and sewer improvements. Construction Cost: \$7.1M (EST)</p> <p><b><u>Bainbridge Canal Closure and Roadway Improvements, Jefferson Parish</u></b>            Project Manager for designing the improvements on Bainbridge Street from Veterans Boulevard to Terminal Drive in Kenner, Louisiana. The work includes a 4 barrel 8' x 5' box culvert. The work also includes a portion of <i>relocated drainage canal, side street drainage laterals</i>, replacement of the concrete streets, utility offsets, street lights, traffic signal replacement, sidewalks, landscaping, and the extension of the left turn lane on Veterans Boulevard. Construction Cost: \$26.2M (EST)</p>	



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT</b>	
Name & Title:	<b>Jitendra C. Shah, P.E., Vice President</b>
Project Assignment:	<b>Quality Control/Peer Review</b>
Name of Firm with which associated:	<b>Meyer Engineers, Ltd.</b>
Years' Experience with this Firm:	<b>36</b>
Education: Degree(s)/Year/Specialization:	<b>B.S. Civil Engineering 1973 M.S. Civil Engineering 1975</b>
Active Registration: Year first registered/discipline:	<b>1981/Civil Engineering/LA License #19551</b>
<b>Other experience and qualifications relevant to the proposed project:</b>	
<p>Jitendra C. Shah, P.E. has over forty-seven (47) years of Civil Engineering experience and is involved in all aspects of administering engineering projects which include client contact, cost estimates, design, construction administration, contract closeout, and preparation of reports and plans and specifications. <b><i>He fulfills the Minimum Personnel Requirement to be a LA Registered Engineer with a minimum of five (5) years' experience.</i></b> He participates in most facets of Civil Engineering Design including drainage pump stations, structural, drainage, sanitary and storm sewerage, water, roads and bridges, water and sewerage treatment plants, green infrastructure, drainage and sewerage pump stations, and airport designs. As Vice President, he is responsible for Quality Control Peer Review for Meyer's engineering projects and has managed projects excess of \$50 Million. He has completed many significant street, drainage and wastewater projects for N.O. Department of Public Works, N.O. Sewerage &amp; Water Board, LA DOTD, Jefferson Parish, and other municipalities in the Metropolitan area. His professional affiliations include membership in American Society of Civil Engineers (ASCE), Associate Member of the Institute of Transportation Engineers (ITE), Society of American Military Engineers (SAME), and American Concrete Institute (ACI).</p> <p><b><u>Trapp Canal Improvements, Jefferson Parish</u></b> Project Manager for the canal improvements which consisted of <b><i>drainage improvements</i></b> for 180' wide earthen canal section with concrete slope paving for the Trapp Canal from Bayou Fatma to Bayou Barataria. The project included installation of concrete paving at upper slopes of the trapezoidal canal section (approximately 7,600' long) and placing riprap to lower the slopes of the canal. The project also included adjustment of several outfall culverts and bank stabilization for construction. Construction Cost: \$14.6M</p> <p><b><u>Crown Point Levee System, Jefferson Parish</u></b> Project Manager for the design, permitting and construction administration of the levees, floodwalls and floodgates around Crown Point, Louisiana. The flood system consists of approximately 23,000 linear feet of flood protection along Bayou Barataria, Bayou des Familles and LA Highway 3134. In addition, existing levees will be modified, widened and/or lifted. The Evaluation/Report and Preliminary Design Phase consists of plan-in-hand on-site inspections of the <b><i>existing drainage</i></b> and flood protection system. The flood protection sections include T-walls, I-walls, floodgates, and an earthen section. T-wall and I-wall sections include steel sheet pile walls. Construction Cost: \$22.3M (EST)</p> <p><b><u>Gardere Canal Improvements, Jefferson Parish</u></b> Project Manager for the design and construction support of the Gardere Canal Improvements Phase I &amp; II SELA Project in Jefferson Parish. Gardere Canal Improvements - Phase I project included the installation of approximately <b><i>1,000 LF of steel sheet pile wall section</i></b> with a concrete bottom slab, <b><i>1,000 LF of concrete "U" channel and 900 LF of earthen section</i></b> between Martin Luther King Playground and Brown Avenue Canal. Gardere Canal Improvements - Phase II project included the installation of approximately <b><i>4,250 LF of steel sheet pile wall section</i></b> with concrete bottom slab and <b><i>1,450 LF of concrete "U" channel section</i></b> between Brown Avenue and Eighth Street. Construction Cost: \$20M</p> <p><b><u>Midway Drive Drainage Improvements – Phase 2 (Jefferson Highway to Charlotte Drive), Jefferson Parish</u></b> Project Engineer for the <b><i>drainage improvements</i></b> which included the installation of approximately 1,880 linear feet of 42" (or 42" equivalent) drainage pipe, catch basins, manholes, and street replacement, plus relocations of utilities that interfere with construction.</p> <p><b><u>11<sup>th</sup> Street Rehabilitation – Phase II (New Orleans Avenue to Manhattan Boulevard), Jefferson Parish</u></b> Project Manager for the rehabilitation which includes asphalt roadway reconstruction and widening, milling and overlaying asphalt roadway, sidewalk and ADA ramp construction, and <b><i>drainage improvements</i></b> including regrading ditches and new drain line and drainage structure installation. Project also includes water line installation including directional drilling under an existing canal.</p>	



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT</b>	
Name & Title:	<b>Alec J. Simonson, P.E. Civil Engineer</b>
Project Assignment:	<b>Engineering Support</b>
Name of Firm with which associated:	<b>Meyer Engineers, Ltd.</b>
Years' Experience with this Firm:	<b>4</b>
Education: Degree(s)/Year/Specialization:	<b>B.S. Civil Engineering 2017</b>
Active Registration: Year first registered/discipline:	<b>2021/Civil Engineering/LA License #45838</b>



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

Alec Simonson has four (4) years of engineering experience. Mr. Simonson is proficient in various computer programs and has experience in document management for all project phases, creating and modifying drawings, and collaborating with engineers to ensure adherence to specifications and standards.

**Lime Street Drainage Improvements, Jefferson Parish**  
 Providing engineering support for the Lime Street Drainage Improvements, which includes *upgrading the subsurface drainage system* on Lime Street from West Esplanade to Veterans Boulevard. This critical drainage project is situated in an area that has one of the more poorly drained storm water drainage systems in Metairie. A considerable amount of the subdivision is approximately 7 feet below mean sea level. The project includes the installation of 30" PVC to 48" RCPA storm water drainage trunk line that discharges into the West Esplanade Canal No. 2 to the north and the Veterans Boulevard Canal No. 3 to the south. The project also includes the replacement of Lime Street (concrete), water line offsets, sanitary sewer conflict boxes, jack or bore of a 48" steel drainage pipe under Veterans Boulevard, open cut of West Esplanade for a 48" drain line which necessitated a detour plan, concrete slope paving for outfall pipes, sidewalk replacement and tree protection. Construction Cost: \$7.1M (EST)

**Treme-Lafitte Neighborhood Infrastructure Rehabilitation – Group A, Orleans Parish**  
 Provided engineering support for the *infrastructure rehabilitation project* for the Treme-Lafitte Neighborhood which consisted of about 200 blocks in the City of New Orleans, bounded by Esplanade Avenue, St. Louis Street, N. Broad Street, and N. Rampart Street. The project consisted of the repair or complete replacement of roadway pavement, curbs, sidewalks, and driveways damaged by Hurricane Katrina. The project also consisted of the upgrading of the water line system including modifications to the existing system and upgrading or constructing handicapped ramps at intersections to bring the neighborhood up to current ADA standards. Construction Cost: \$5.5M

**Treme-Lafitte Neighborhood Infrastructure Rehabilitation – Group B, Orleans Parish**  
 Provided engineering support for the *infrastructure rehabilitation project* for the Treme-Lafitte Neighborhood which consisted of about 200 blocks in the City of New Orleans, bounded by Esplanade Avenue, St. Louis Street, N. Broad Street, and N. Rampart Street. The project consisted of the repair or complete replacement of roadway pavement, curbs, sidewalks, and driveways damaged by Hurricane Katrina. The project also consisted of the upgrading of the water line system including modifications to the existing system and upgrading or constructing handicapped ramps at intersections to bring the neighborhood up to current ADA standards. In addition to repair and rehabilitation work, six (6) blocks in the neighborhood will be completely reconstructed. Construction Cost: \$8M

**Hollygrove Neighborhood Groups D & E, Orleans Parish**  
 Providing engineering support for the FEMA Recovery Roads Program projects in the Hollygrove Neighborhood which consist of complete reconstruction of 22 blocks including the complete removal and replacement of roadway and sidewalk pavement, replacement, or construction of handicapped curb ramps at intersections to bring the neighborhood up to current ADA standards, and the *removal and upgrading of the drainage*, sanitary sewer, and water distribution systems. Construction Cost: \$7.5M (EST)

**Stanley Stein Crossing, Iberville Parish**  
 Providing engineering support for providing an improved canal crossing at the Gillis W. Long Center site across the Stanley Stein canal to minimize the severity of turns to travel across campus and extension of the adjacent roadway as required. Construction Cost: \$200K (EST)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT</b>	
Name & Title:	<b>Mark A. Schutt, P.E., Project Engineer</b>
Project Assignment:	<b>Civil Engineer</b>
Name of Firm with which associated:	<b>Meyer Engineers, Ltd.</b>
Years' Experience with this Firm:	<b>21</b>
Education: Degree(s)/Year/Specialization:	<b>B.S. Civil Engineering 1997 M.S. Civil Engineering 1999</b>
Active Registration: Year first registered/discipline:	<b>2003/Civil Engineering/LA License #30528</b>
<b>Other experience and qualifications relevant to the proposed project:</b>	
<p>Mark A. Schutt, P.E. has over twenty-three (23) years' experience in Civil Engineering, Drainage Engineering, and Project Management. He is involved with many aspects of administering engineering projects which include client contact, cost estimates, design plans and specifications, construction administration, and preparation of reports. He participates in most facets of Civil Engineering design including roads, bridges, drainage, sanitary sewer, water, environmental, and structural. He has specialized experience in designing a variety of recreation projects to include boat launches, fishing piers, and bike paths, and has worked on several drainage and wastewater projects in the region. His professional memberships include ASCE, APWA, LES, and NSPE.</p> <p><b><u>Harahan Master Drainage Study, Jefferson Parish</u></b> Project Engineer for the <i>Master Drainage Plan</i> for the City of Harahan to create a Stormwater Management Program which included the following:</p> <ul style="list-style-type: none"> <li>✦ Creation of maps identifying flood prone areas.</li> <li>✦ Field investigation of location and conditions of existing culverts as potential problems. Researched previous drainage studies and their recommendations.</li> <li>✦ Analyzed the problem areas identified by the City, Parish, Soniat Drainage Advisory Board and local residents.</li> <li>✦ Created <i>computer models</i> of existing interior drainage system and improved conditions for 10-year storm event using the EPA Storm Water Management Model (SWMM).</li> </ul> <p><b><u>Elmwood Business Park Drainage Study, Jefferson Parish</u></b> Project Engineer for the <i>Drainage Study</i> of the Elmwood Business Park area, which was bounded by Citrus Boulevard, G Street, Sams Avenue, and Edwards Avenue. The <i>drainage analysis</i> entailed applying the Rational Method for a 10-year storm event. At the time of the drainage analysis, the Mounes Street Extension was under construction from Edwards Avenue to Dickory Avenue. Drainage system upgrades were recommended for each street. If all streets within the study area have internal drainage improved, the estimated construction cost was estimated to be approximately \$10.2M.</p> <p><b><u>Lafitte Drainage Improvement Program, Jefferson Parish</u></b> Project Engineer for the engineering and project management services for the design, preparation of plans and specifications, and construction administration for the Lafitte <i>Drainage Improvement Program</i>. The project included the installation of more than 30,000 linear feet of subsurface drainage on 27 different streets throughout the Town of Jean Lafitte and surrounding areas to improve the drainage conveyance to the existing pump stations. Tasks included coordination for Community Development Block Grants (CDBG), providing environmental clearance, completing DOTD utility permits, design, construction administration and inspection. Mr. Schutt coordinated work with Town of Jean Lafitte, Jefferson Parish Drainage and Engineering Departments, Jefferson Parish Administration, and U.S. Department of Housing and Urban Development (HUD). He completed the design of four (4) Bid Packages. He also provided Project Management, which included coordinating several design consultants in the preparation of the Construction Documents for the Bid Packages. He also completed the Lafitte Master Drainage Plan which precipitated this project. Construction Cost: \$6.7M</p>	



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT</b>	
Name & Title:	<b>Eric Colwart, P.E., Civil Engineer</b>
Project Assignment:	<b>Civil Engineer</b>
Name of Firm with which associated:	<b>Meyer Engineers, Ltd.</b>
Years' Experience with this Firm:	<b>14</b>
Education: Degree(s)/Year/Specialization:	<b>B.S. Civil Engineering 2005</b>
Active Registration: Year first registered/discipline:	<b>2011/Civil Engineering/LA License #36290</b>
<b>Other experience and qualifications relevant to the proposed project:</b>	
<p>Eric Colwart has over fourteen (14) years experience in Civil and Drainage Engineering including client contact, cost estimates, design, construction administration, and preparation of reports, plans and specifications. He specializes in drainage engineering and city infrastructure projects. Structural engineering projects include analysis of existing structures and foundations, as well as design of concrete foundations and steel framing for new buildings and structures. City infrastructure projects include performing hydraulic analysis and geometric design for roadway and drainage projects. He has designed projects in accordance with DOTD's "Roadway Design Manual", "Hydraulics Manual", "Bridge Manual", AASHTO's "Green Book", the "Louisiana Standard Specifications for Roads and Bridges", "American Concrete Institute Standards" and the "AISC Manual of Steel Construction". His professional memberships include ASCE and SEI.</p> <p><b><u>Oak Park Storm Water Management and Flood Mitigation, Orleans Parish</u></b>            Project Engineer for the <i>Stormwater Management and Flood Mitigation Project</i> which transforms a cluster of five vacant parcels on Perlita Street, as well as a portion of the adjacent public right-of-way (ROW) on Perlita Street, into a <i>stormwater management area</i> that reduces the risk of flooding for the surrounding neighborhood. The project site encompasses 27,720 square feet or 0.64 acres. Additional storage and landscape interventions in the "Preferred Option" include a <i>bioswale</i> that replaces the eastern travel and parking lanes of Perlita Street, which feeds into a shallow basin on the project site (one foot deep at its deepest). <i>Water from the basin can infiltrate through the soil and into the underground storage tank below. The bioswale and pervious pavement offer additional storage capacity for storm water.</i> The storm water storage capacity of this project is 64,000 CF. The project team tested several design scenarios on the project site and adjacent areas of the right-of- way and conducted final modeling on two scenarios. Construction Cost: \$1.2M (EST)</p> <p><b><u>Oakwood/Terrytown Drainage Improvements, Jefferson Parish</u></b>            Designed the <i>drainage improvements</i> and street reconstruction along Carol Sue Avenue from Oakwood Canal to Algiers Outfall Canal in Terrytown. Design included approximately 2,500' long new 72" RCPA drain lines, Removal and replacement 11,000 SY of 7" thick concrete roadway with rollover curb. Design included re-establishing vertical alignment for proper drainage, and the outfall at the Algiers Outfall Canal was designed to avoid canal bank erosion issues. Construction Cost: \$6M</p> <p><b><u>Mazoue Ditch Drainage Improvements, Jefferson Parish</u></b>            Designed the following typical sections: 3,000' long - 11' wide and 10' deep sheet pile section (approximately 30' long sheet pile and 18" thick bottom concrete slab was installed), 200' long - 11' wide and 10' deep concrete u-channel, and 1,050' long - 10' x 8' concrete box culvert. The work also included slope paving, drainage manholes, catch basins, drain line adjustments, utility adjustment, fencing and pavement replacement. Challenges included constructing the improvements within a tight (24') right-of-way. Meyer considered the hydraulic parameters and construction issues, to develop several options and design sections.</p> <p><b><u>Industry Canal Improvements, Jefferson Parish</u></b>            Performed engineering design and drainage calculations for the <i>drainage improvements</i> for the Industry Canal from the Oakwood Canal to Bayou Barataria. The project included a 42' wide x 12' tall concrete U-channel section (approximately 3,100' long), removal of existing 3 - 72" x 122" arch pipes and major utility relocation work. The work also included coordinating a major transmission line relocation with Entergy. He assisted with project management for the project, and coordinated work with the USACE, Jefferson Parish, the geotechnical engineer and surveyor. The project was designed per USACE requirements. SELA funding was provided for design and construction of this project. Construction support included review of shop drawings and request for information (RFI's) as well as required design revisions during construction. Construction Cost: \$18.7M</p>	



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT</b>	
Name & Title:	<b>Kenneth J. Belou, P.E., Civil Engineer</b>
Project Assignment:	<b>Civil Engineer</b>
Name of Firm with which associated:	<b>Meyer Engineers, Ltd.</b>
Years' Experience with this Firm:	<b>12</b>
Education:	<b>B.S. Civil Engineering 2009</b>
Degree(s)/Year/Specialization:	<b>LA Notary Public #151190</b>
Active Registration: Year first registered/discipline:	<b>2009/Civil Engineering/LA License #38850</b>
<b>Other experience and qualifications relevant to the proposed project:</b>	
<p>Kenneth J. Belou, P.E. has twelve (12) years' experience in Civil Engineering and Construction Administration. He engages in numerous aspects of civil engineering for the firm including client contact, project planning and budgeting, project design, plan and specification preparation, cost estimate development, computer-aided design using AutoDesk AutoCAD and AutoDesk Civil 3D, and report preparation. His experience in construction administration includes coordination with contractors and clients; organization, oversight, and record-keeping of pre-construction and construction progress meetings; shop drawing review; evaluation of change orders and pay requests; and various other construction coordination responsibilities. He is involved in many fields of civil engineering design including roads, drainage, sanitary sewer collection and treatment systems, water, environmental, recreation, and structural. He is a member of the American Society of Civil Engineers and a recipient of the University of New Orleans Chancellor's Award in 2009.</p> <p><b><u>State Project No. H.013850: Duplessis Road Safety Widening, Ascension Parish</u></b>            Project Engineer for the design, plan preparation and construction administration for the Duplessis Road Safety Widening Project. Duplessis Road is categorized as an Urban Collector Roadway that provides a connection between major LA DOTD roads: Airline Highway (US 61) and Old Jefferson Highway (LA Highway 73). As part of the Move Ascension roadway improvement program, Meyer is tasked with designing the full roadway reconstruction of the 1.65-mile portion of the road to widen the road from 18' wide to 26' wide (two (2) 11' lanes and two (2) 2' wide paved shoulders). The design work included <i>extensive drainage design</i> to meet the LA DOTD requirements for both sides of the length of the roadway, including subsurface drainage systems (storm drain systems), side drain sizing, as well as roadside ditches. Drainage design was accomplished using LA DOTD Computer Program <b>HYDROWIN</b>. The roadway and shoulder safety widening will aid in vehicle recovery and provide a safer roadway for traveling motorists. Construction Cost: \$5.2M (EST)</p> <p><b><u>Children's Hospital of New Orleans Expansion, Orleans Parish</u></b>            Project Engineer for the expansion of Children's Hospital Henry Clay Avenue and State Street Campuses. New construction includes a 230,000 SF hospital, 584 car parking garage, 70,000 SF Behavioral Health Hospital and rehabilitation of existing structures and roadways throughout both campuses. The work includes replacing a portion of Henry Clay with brick pavers, <i>drainage design, detention ponds with bioswales</i>, an outdoor recreational courtyard, rerouting utilities, and utility hookups. To satisfy the City of New Orleans' Storm Water Code, Children's Hospital has <b>thirty-three (33) Green Infrastructure Systems</b> as well as improved the main traditional drainage (gray infrastructure) on Henry Clay Avenue. These systems combine to <i>manage approximately 99,000 cubic feet of storm water</i>. This accounts for 27% of the total storm water that falls on Children's Hospital campus over a 10-year, 24-hour design storm event. These Green Infrastructure improvements not only meet the City's Storm Water Code, but also <i>reduce peak storm water runoff, slow the surface flow of storm water, and promote infiltration</i> into the sub-soils. More importantly, the improvements <i>ease the burden of storm water on the Hospital's surrounding neighborhoods</i>. Construction Cost: <b>\$255M</b> (EST)</p> <p><b><u>Pontchartrain Gardens Drainage, Jefferson Parish</u></b>            Performed engineering design for the <i>drainage improvements</i>. The intent of this project is to upgrade the subsurface drainage system on Lemon and Lime streets as they are bounded by West Esplanade to the north and Veterans Boulevard to the south. The project included installation of large subsurface storm water drainage pipe that discharges into the West Esplanade Canal No. 2 and the Veterans Boulevard Canal No. 3. He assisted with completing included a <i>hydraulic study</i> of the area, design of the storm water drainage system, and preparation of construction documents to be advertised and bid through Jefferson Parish. He assisted with construction administration and inspection. He also assisted with coordinating work with Jefferson Parish Drainage, Water, Sewerage and Engineering Departments.</p> <p><b><u>Dwyer Road Intake Canal, Orleans Parish</u></b>            Performed engineering design for the <b>\$50 Million intake canal</b> project in Orleans Parish under the SELA Flood Control Program, which included structural, civil, hydraulic, geotechnical, and environmental engineering design services. The scope of work included the design of a 7,000-foot long, 12-foot x 10-foot reinforced concrete box culvert along Dwyer Road from the Dwyer Road Pump Station to the St. Charles Canal in New Orleans. The project included also relocating a sewer force main, electrical distribution line and an adjustment to water, sewer, gas, and telephone lines in conflict. Meyer's design included drainage canals and structures, pre-stressed and post-tensioned concrete structures, bulkheads, highway work, and cost estimates. He assisted with coordinating site layout, real estate rights of way, HTRW investigations, soil borings and tests, pile capacity curves, soil pressure assessments, seepage and dewatering analysis, stability analysis, surveys, and aerial photographic coverage. He assisted with reviewing shop drawings and requests for information during construction.</p>	



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT</b>	
Name & Title:	<b>Robert Klare, P.E.</b>
Project Assignment:	<b>Civil Engineer</b>
Name of Firm with which associated:	<b>Meyer Engineers, Ltd.</b>
Years' Experience with this Firm:	<b>8</b>
Education: Degree(s)/Year/Specialization:	<b>B.S. Civil Engineering 2013</b>
Active Registration: Year first registered/discipline:	<b>2018/Civil Engineering/LA License #42991</b>
<b>Other experience and qualifications relevant to the proposed project:</b>	
<p>Robert Klare, P.E. has eight (8) years of engineering experience and is proficient in various computer programs and has experience in document management for all project phases, creating and modifying drawings, and collaborating with engineers to ensure adherence to specifications and standards.</p> <p><b><u>Parks of Plaquemines Subdivision, Plaquemines Parish</u></b> Mr. Klare performed engineering design for the development of a multi-phase, 200+ acre subdivision. He coordinated drainage, sewer, street, and water design. The development was divided in phases and Mr. Klare assisted in the design of four (4) Bid Packages. He performed engineering calculations and <i>design for a detention pond and overflow weir</i>. He also prepared specifications for these projects.</p> <p><b><u>Woodland Industrial Park Drainage Improvements, Plaquemines Parish</u></b> The project included design of <i>rehabilitation and upgrading existing drainage infrastructure</i> in the Woodland Industrial Park in Plaquemines Parish. Mr. Klare performed engineering design for drainage and pavement upgrades to the park. He designed drainage, prepared plans, and coordinated with pipeline operators.</p> <p><b><u>Peachtree Street Drainage, Baton Rouge</u></b> The project scope included the <i>replacement and drainage upgrades</i> along Peachtree Street in Baton Rouge near Baton Rouge General – Mid City Hospital. Construction of the hospital changed the land use and drainage patterns, contributing to increased flooding in the area. Mr. Klare designed the project to upgrade existing drainage and convert paved areas into green infrastructure for reducing and retaining stormwater runoff.</p> <ul style="list-style-type: none"> <li>✦ 700' long street with two (2) travel lanes, one (1) turn lane, converted to two (2) travel lanes + Rain Garden</li> <li>✦ Drainage Culverts 12" Diameter to 36" Diameter</li> <li>✦ Green Infrastructure – Grass Channel</li> </ul> <p><b><u>South Galvez Street Reconstruction, New Orleans</u></b> The project included complete demolition and reconstruction of South Galvez Street in New Orleans. This project included reconfiguring existing lanes to add parking and bike lanes, <i>full reconstruction</i> of water, sewer, and <i>drainage lines</i>. Drainage lines were upgraded to larger sizes. Design also included pervious pavement in parking lanes for green stormwater management. Mr. Klare prepared plans and specifications, <i>calculated drainage design</i>, and coordinated with city on project requirements.</p> <ul style="list-style-type: none"> <li>✦ 1,800' long avenue with four (4) travel lanes converted to two (2) travel lanes + (2) bike lanes + street parking</li> <li>✦ Drainage Culverts 12" Diameter to 42" Diameter</li> <li>✦ Water Lines 6" to 12" Diameter</li> <li>✦ 600' of Sewer Mains 8" to 12" Diameter</li> <li>✦ Green Infrastructure – Pervious Pavement</li> </ul>	



## TEC Professional Services Questionnaire

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

### PROJECT NO. 1

**Project Name, Location and Owner's contact information:**

**Nature of Firm's Responsibility:**

*Drainage Master Plan*

***Drainage District No. 9 Drainage Master Plan***  
Jefferson Parish, Louisiana

Jefferson Parish Drainage Department  
1221 Elmwood Park Boulevard, Ste. 907  
Harahan, LA 70123  
Mr. Mitch Theriot  
504-736-6751  
Email:  
[mtheriot@jeffparish.net](mailto:mtheriot@jeffparish.net)

**KEY PERSONNEL**

Richard C. Meyer, P.E.  
David Dupre, P.E.  
Jitendra Shah, P.E.

**HIGHLIGHTS**

- 🌿 Master Drainage Plan
- 🌿 HEC-1 & UNET Models
- 🌿 Prioritized Drainage Improvements
- 🌿 HEC-1 Runoff Hydrographs
- 🌿 Prepared Cost Estimates

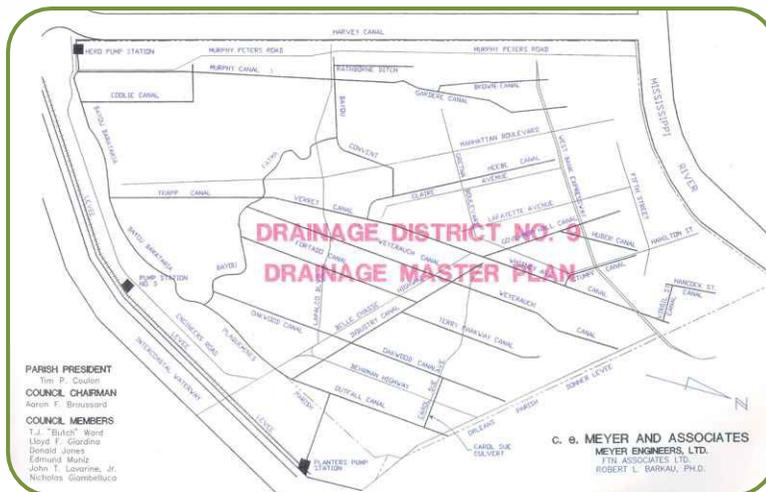
*Meyer Engineers, Ltd. (Meyer)* prepared the **Storm Water Management Plan for Drainage District No. 9 that includes the 24 major drainage canals and 2 pump stations** draining an area of approximately 12,500 acres. Field investigations were scheduled to gather culvert, bridge, and utility crossing information for each canal. **HEC-1 runoff hydrographs** were tabulated for each canal.

The **UNET model** produced stage and flow data for each canal. The model was calibrated to match known field conditions for stage based on the Jefferson Parish SCADA system gages. Meyer determined the hydraulic capacity of the existing system and made recommendations for each canal in the district.

Plan profile sheets for each canal were prepared to depict the water surface profiles. Contour maps were compiled to show the projected extent of flooding for the different design storms. Meyer prepared preliminary statements of probable cost for the recommended drainage improvements and prioritized these projects based on the magnitude of projected flooding.

Design included detention ponds at recreation facilities and in public right-of-way, retention ponds throughout the system in and near major drainage canals, multiple major drainage pump stations including the Whitney Barataria 3,000 CFS pump station designed by Meyer and funded by the USACE and SWFC Program.

Meyer held public meetings to gather input to address the needs and concerns of the public.



**Estimated Cost:**

**Completion Date (Actual or estimated):**

**Entire Project:**

**Work for which Firm was Responsible:**

1996

\$21M

100%



## TEC Professional Services Questionnaire

### PROJECT NO. 2

<p><b>Project Name, Location and Owner's contact information:</b></p> <p style="text-align: center;"><b><i>Lafitte Area Wide Independent Levee District Drainage Program Management</i></b> Jefferson Parish, Louisiana</p> <p style="text-align: center;">Lafitte Area Wide Independent Levee District 799 Jean Lafitte Boulevard Lafitte, LA 70064 Ms. Nicole Cooper, Director of Administration 504-689-2208 Email: <a href="mailto:ncooper@townofjeanlafitte.com">ncooper@townofjeanlafitte.com</a></p> <p><b>KEY PERSONNEL</b></p> <p>Richard C. Meyer, P.E. Ann Theriot, P.E. David Dupre, P.E. Mark Schutt, P.E. Jitendra Shah, P.E.</p> <p><b>HIGHLIGHTS</b></p> <ul style="list-style-type: none"> <li><span style="color: green;">✿</span> Program Management</li> <li><span style="color: green;">✿</span> Drainage and Pump Station Improvements</li> <li><span style="color: green;">✿</span> Drainage Basin Modeling</li> </ul>	<p><b>Nature of Firm's Responsibility:</b></p> <p style="text-align: center;"><b><i>Program Management</i></b></p> <p>The Lafitte Area Independent Levee District (LAILD) hired <b>Meyer Engineers, Ltd.</b> (Meyer) as their <b>Program Manager</b> to monitor and coordinate the district's drainage and pump station improvement projects, which are needed since levees are being constructed around several drainage basins.</p> <p>For this program, Meyer has the overall responsibility for the successful negotiation, review, monitoring and documentation for the design of <b>twenty-two projects</b> in <b>four different drainage basins</b>. After LAILD hired ten engineering firms to prepare the survey, geotechnical investigations, environmental permits, drawings and specifications for the drainage and pump station projects, Meyer's duties and responsibilities include but are not limited to the following:</p> <ul style="list-style-type: none"> <li><span style="color: green;">✿</span> Develop and maintain document control database to track project correspondence.</li> <li><span style="color: green;">✿</span> Finalize scope and budget for each project and review itemized budgets.</li> <li><span style="color: green;">✿</span> Review engineering contracts and amendments and provide recommendation for approval.</li> <li><span style="color: green;">✿</span> Monitor design schedules and in-progress design documents.</li> <li><span style="color: green;">✿</span> Negotiate design and supplementary service fees.</li> <li><span style="color: green;">✿</span> Prepare status report for projects on spreadsheet form approved by LAILD.</li> <li><span style="color: green;">✿</span> Assist LAILD and design consultants with preparation of any necessary document/permit documentation.</li> <li><span style="color: green;">✿</span> Resolve and make recommendations for technical questions regarding issues of constructability during the design process.</li> <li><span style="color: green;">✿</span> Review reports and coordinate with LAILD and design consultants as to action recommended to be taken.</li> <li><span style="color: green;">✿</span> Review and make recommendations regarding design consultants' plans, specifications, and cost estimates for general conformance with LAILD's criteria and constructability.</li> <li><span style="color: green;">✿</span> Monitor general compliance of plans and specifications with design standards, applicable codes and permitting restrictions and requirements.</li> <li><span style="color: green;">✿</span> Develop bid packages prepared by design consultant.</li> <li><span style="color: green;">✿</span> Attend Board meetings and other meetings, as necessary.</li> <li><span style="color: green;">✿</span> Prepare reports for distribution to Board members and the public.</li> <li><span style="color: green;">✿</span> Coordinate with design consultants and local governmental agencies having jurisdiction over the projects.</li> </ul> <p>As Program Manager for the Lafitte Area Independent Levee District, Meyer is expected to take the leadership role both on the site and in the office and to encourage excellence and quality in the work amongst all the design consultants.</p>	
<p><b>Completion Date (Actual or estimated):</b></p> <p style="text-align: center;">2024 (EST)</p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
	\$24.8M	100%



# TEC Professional Services Questionnaire

## PROJECT NO. 3

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>
	<i>Master Drainage Plan, Drainage Design &amp; Cost Estimating</i>

### *Bissonnet Plaza Master Drainage Plan*

Jefferson Parish, Louisiana

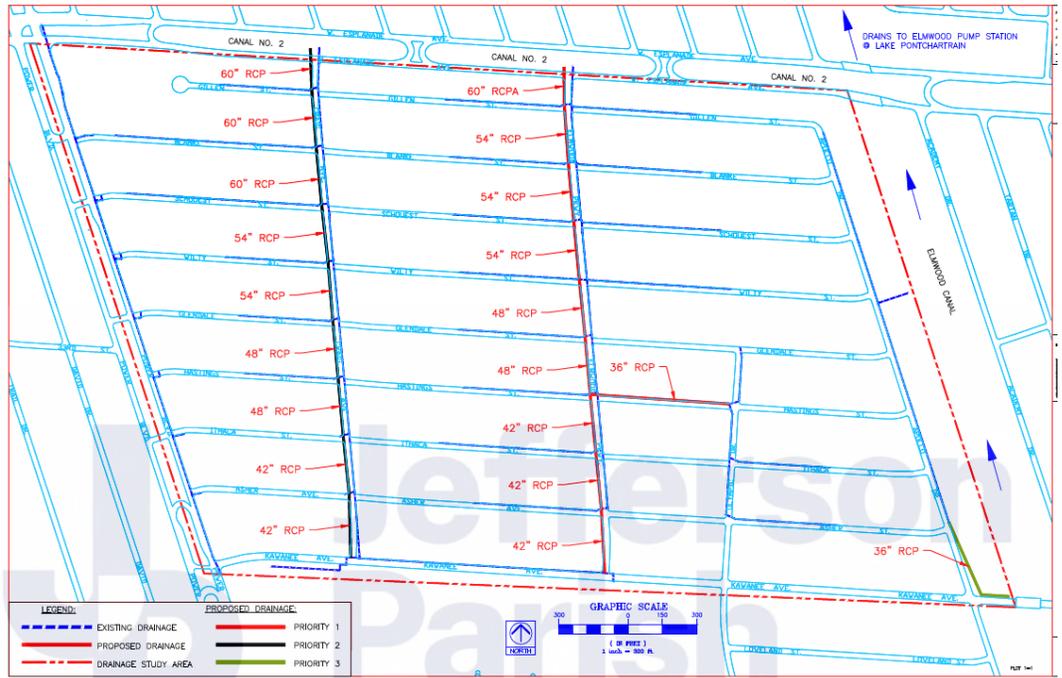
Jefferson Parish Department  
of Capital Projects  
1221 Elmwood Park  
Boulevard, Suite 906  
Harahan, LA 70123  
Mr. Neil Schneider  
504-736-6833  
Email:  
[nschneider@jeffparish.net](mailto:nschneider@jeffparish.net)

#### KEY PERSONNEL

Richard C. Meyer, P.E.  
Donovan Duffy, P.E.  
Christopher Rowan, P.E.

#### HIGHLIGHTS

- Master Drainage Plan
- Computer Modeling
- EPA Storm Water Management Model (SWMM)
- Identified Funding Sources



*Meyer Engineers, Ltd. (Meyer)* prepared a *Master Drainage Plan* for the Bissonnet Plaza Area in Jefferson Parish. The study area is the area bounded by Power Boulevard, Kawanece Avenue, Apollo Drive & W. Esplanade Ave. Meyer's Master Plan included the following:

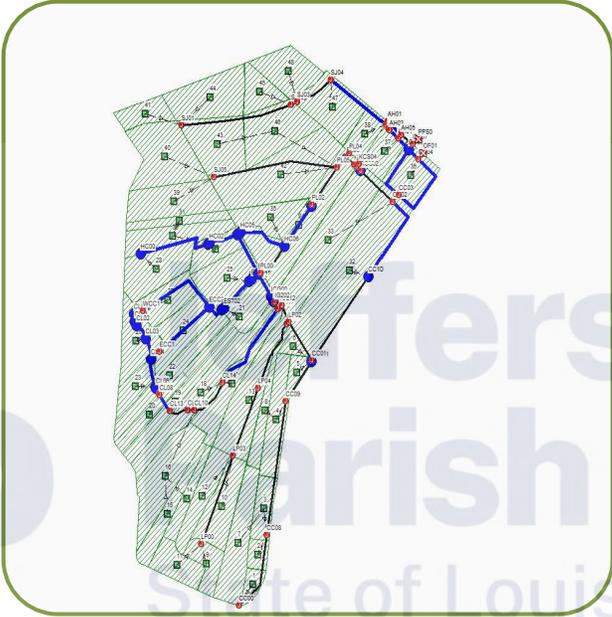
- Creation of maps identifying flood prone areas.
- Field investigation of location and conditions of existing culverts as potential problems. Research of previous drainage studies and their recommendations.
- Created computer models of existing interior drainage system and improved conditions for 10-year storm event using the *EPA Storm Water Management Model (SWMM)*.
- Utilized the Parish's *2012 East Bank Master SWMM model to determine the canal outfall elevations for each specified storm event.*
- Calibrated and verified the *computer model.*
- Addressed the overall street drainage system to the major outfalls.
- Prepared cost estimates and prioritized improvements.
- Identified potential funding sources such as cost share programs, bond issues, fees, ad valorem taxes, retail sales tax revenue, and service charges.
- Recommended improvements to the drainage culverts that improved water surface elevations without adding additional internal pump stations per the Parish's request.

<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019	Priority I (\$1.8M), Priority II (\$2.7M),	100%



## TEC Professional Services Questionnaire

### PROJECT NO. 4

<p><b>Project Name, Location and Owner's contact information:</b></p> <p style="text-align: center;"><b><i>Montz Drainage Master Plan Update</i></b> St. Charles Parish, Louisiana</p> <p>St. Charles Parish Department of Public Works and Wastewater 100 River Oaks Drive Destrehan, LA 70047 Mr. Donald Edwards 985-783-5102 Email: <a href="mailto:dedwards@stcharlesgov.net">dedwards@stcharlesgov.net</a></p> <p style="text-align: center;"><b>KEY PERSONNEL</b></p> <p>Richard C. Meyer, P.E. Donovan Duffy, P.E. Ann Theriot, P.E. Jitendra Shah, P.E.</p> <p style="text-align: center;"><b>HIGHLIGHTS</b></p> <ul style="list-style-type: none"> <li> Master Comprehensive Drainage Plan</li> <li> Hydrologic and Hydraulic Study</li> <li> Storm Water Modeling</li> <li> Convert HEC-HMS/HEC-RAS to SWMM</li> <li> Recommended Drainage Improvements</li> <li> Prioritize Projects</li> <li> Preliminary Construction Costs</li> <li> Potential Funding Sources</li> </ul>	<p><b>Nature of Firm's Responsibility:</b></p> <p style="text-align: center;"><b><i>Master Drainage Plan</i></b></p> <div style="text-align: center; border: 1px solid black; border-radius: 15px; padding: 10px; margin: 10px auto; width: 80%;">  </div> <p><i>Meyer Engineers, Ltd. (Meyer)</i> prepared the “<i>Montz Drainage Master Plan Update</i>” for St. Charles Parish.</p> <p>Meyer analyzed the area by converting the storm water modeling initially prepared using <i>Hydrologic Engineering Center Hydrologic Model System (HEC-HMS)</i> and <i>Hydrologic Engineering Center River Analysis System (HEC-RAS)</i> to Stormwater Management Modeling (SWMM). The program computed the rate and volume of runoff from a specified rainfall event and calculates the natural water surface elevations. Meyer used this program to complete a <i>Hydrologic and Hydraulics (H&amp;H) Study</i>.</p> <p>The major canals and pump stations were modeled for the Montz area of St. Charles Parish. The 10, 25, 50 and 100-year storm events were analyzed. Flood prone areas were identified, and drainage improvements modeled to see the potential benefits of the project. The goal was to reduce water surface elevations and improve flow. Potential projects were ranked in order of priority and preliminary construction costs were estimated. The data was compiled in a Master Plan along with potential funding sources and presented to the Council and the public.</p> <p>Meyer prioritized projects and prepared cost estimates.</p>	
<p><b>Completion Date (Actual or estimated):</b></p> <p style="text-align: center;">2019</p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
	\$340 (Study)	100%

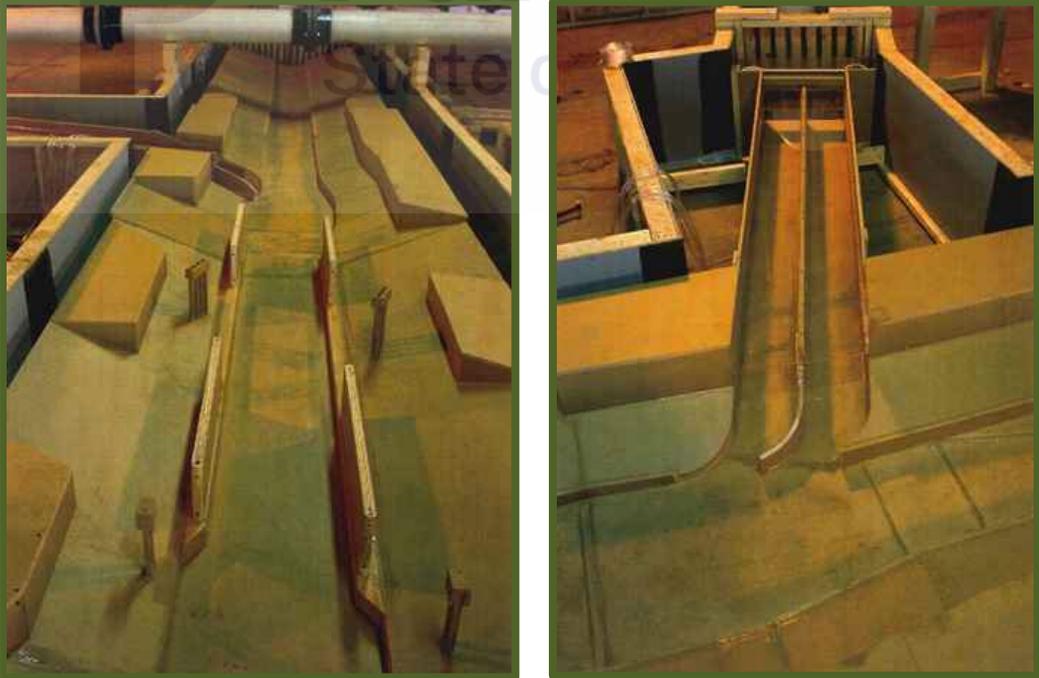
## TEC Professional Services Questionnaire

### PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;"><b><i>St. Bernard Master Drainage Plan</i></b> St. Bernard Parish, Louisiana</p> <p style="text-align: center;">St. Bernard Parish Department of Public Works 1125 E. St. Bernard Highway Chalmette, LA 70043 Mr. Matthew Falati, Director 504-278-4315 Email: <a href="mailto:mfalati@sbgp.net">mfalati@sbgp.net</a></p> <p style="text-align: center;"><b>KEY PERSONNEL</b></p> <p>Richard C. Meyer, P.E. Donovan Duffy, P.E. Ann Theriot, P.E. Kenneth Belou, P.E. Robert Klare, P.E.</p> <p style="text-align: center;"><b>HIGHLIGHTS</b></p> <ul style="list-style-type: none"> <li><span style="color: green;">✿</span> Address Repetitive Flood Loss Problems</li> <li><span style="color: green;">✿</span> Watershed Analysis</li> <li><span style="color: green;">✿</span> Computer Modeling</li> <li><span style="color: green;">✿</span> Drainage Computations</li> <li><span style="color: green;">✿</span> Preliminary Project Cost Estimates</li> <li><span style="color: green;">✿</span> Master Drainage Plan Report</li> </ul>	<p><b><i>Master Drainage Plan</i></b></p> <p><i>Meyer Engineers, Ltd. (Meyer)</i> prepared the <b><i>Drainage Master Plan</i></b> for St. Bernard Parish. The study limits were the Orleans Parish line, Mississippi River Levee, and the Lake Borgne Basin Levee District Back Protection Levees.</p> <p>During the first phase of the project, maps were prepared to identify flood prone areas, repetitive loss areas, and areas which have flooded in the past based on information provided by the Parish Floodplain Administrator. Existing drainage information was compiled for canals, bridges, trestles, utility crossings, culverts and any other structures impeding the canals. Levee, pump station and stage gage data were gathered from Lake Borgne Basin Levee District. (LBBLD) Rain gage data is being collected from the National Weather Service. Investigation of the location and condition of existing drainage features identified as potential problems by the Parish was completed.</p> <p>The second phase of the project included <b><i>hydraulic modeling</i></b>. Subdividing the watersheds of the study area, determining reaches, and computing times of concentration was included for analysis. The drainage system was analyzed for existing conditions for the 25 and 100-year storm events. The evaluation addressed the major canals and outfalls. Maximum stage and flow rates were shown for major intersections, major crossings, and other significant locations. The existing computer model results were calibrated against known flood stages or SCADA canal gauges provided by the Parish for a single storm event. The drainage system was analyzed for any planned future development based on the Parish's Land Use Plan as well as recommended improvements and alternatives to major canals and outfalls based on a 25-year storm. The drainage system was also analyzed with planned, future development for 100-year storm event comparing the 100-year storm event stages to the Base Flood Elevation (BFE).</p> <p>During the third phase of the project, a preliminary probable construction cost, prioritized list of recommended projects and a final report were submitted. Preliminary probable construction costs for improvements and alternatives were recommended for a 25-year storm event. Recommended improvements and alternatives were prioritized based on their effectiveness to improve drainage for the 25-year storm event. Code revisions were recommended pertaining to drainage requirements as necessary for residential and commercial developments. Potential funding sources were identified. The final report consisted of presentation of the existing conditions, improved conditions, prioritized list of projects with preliminary construction costs, recommended code revisions and potential funding sources.</p> <p>Currently Meyer is preparing a drainage maintenance contract for on-going construction.</p>	
		
	<b>Estimated Cost:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2022	\$700 (Fee)	100%

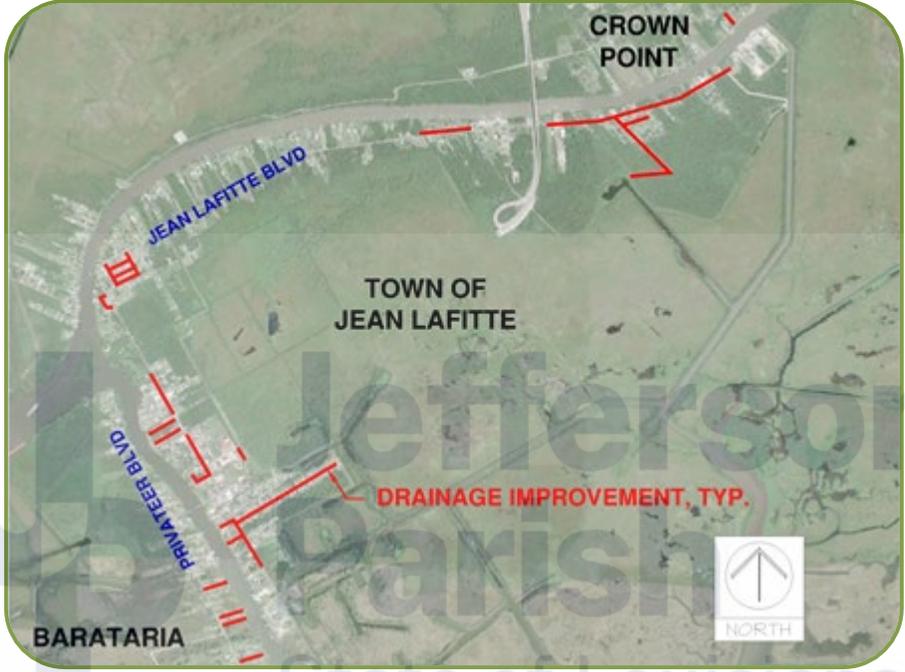
## TEC Professional Services Questionnaire

### PROJECT NO. 6

<p><b>Project Name, Location and Owner's contact information:</b></p> <p><b><i>Soniat Canal/Earhart (Cross Canal) Physical Hydraulic Modeling Study</i></b> Jefferson Parish, Louisiana</p> <p>Jefferson Parish Dept. of Drainage 1221 Elmwood Park Boulevard Suite 907 Harahan, LA 70123 Mr. Mitchell Theriot, Director 504-736-6751 Email: <a href="mailto:MTtheriot@jeffparish.net">MTtheriot@jeffparish.net</a></p> <p><b>KEY PERSONNEL</b></p> <p>Richard C. Meyer, P.E. Mark Schutt, P.E.</p> <p><b>HIGHLIGHTS</b></p> <p>✦ Physical Hydraulic Model</p>	<p><b>Nature of Firm's Responsibility:</b></p> <p><b><i>Drainage Study, Physical Model, Drainage Design &amp; Cost Engineering</i></b></p> <p><i>Meyer Engineers, Ltd. (Meyer)</i> prepared the <b>Hydraulic Modeling &amp; Report</b> to summarize the losses within the intersection of Soniat Canal and Earhart (Cross Canal) and make recommendations for improvements. Tasks included:</p> <ul style="list-style-type: none"> <li>✦ Surveying of the <b>complex intersection for box culvert</b> sizes, utility crossings, and railroad bridge crossings.</li> <li>✦ Compiled survey data to physically construct and test a small-scale model of the intersection.</li> <li>✦ <b>Gathered flows and stages</b> from the U.S. Army Corps of Engineers (USACE) computer model, which represented existing conditions with Southeast Louisiana Urban Flood Central (SELA) projects and Pump to the River in place.</li> <li>✦ <b>Recorded head loss measurements</b> and observed flow patterns of the physical model.</li> <li>✦ Recommendations included expanding the box culvert width, relocating the center dividing wall, and shortening the center turning vane. These improvements would reduce velocity head, exist loss and effects of flow separation.</li> <li>✦ Report composed of model scaling criteria, instrumentation, test procedure, test results, recommendations, and probable construction cost.</li> </ul>					
						
<p><b>Completion Date (Actual or estimated):</b></p> <p style="text-align: center;">2002</p>	<p><b>Estimated Cost:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"><b>Entire Project:</b></td> <td style="width: 50%; text-align: center;"><b>Work for which Firm was Responsible:</b></td> </tr> <tr> <td style="text-align: center;">\$454,000</td> <td style="text-align: center;">100%</td> </tr> </table>		<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>	\$454,000	100%
<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>					
\$454,000	100%					

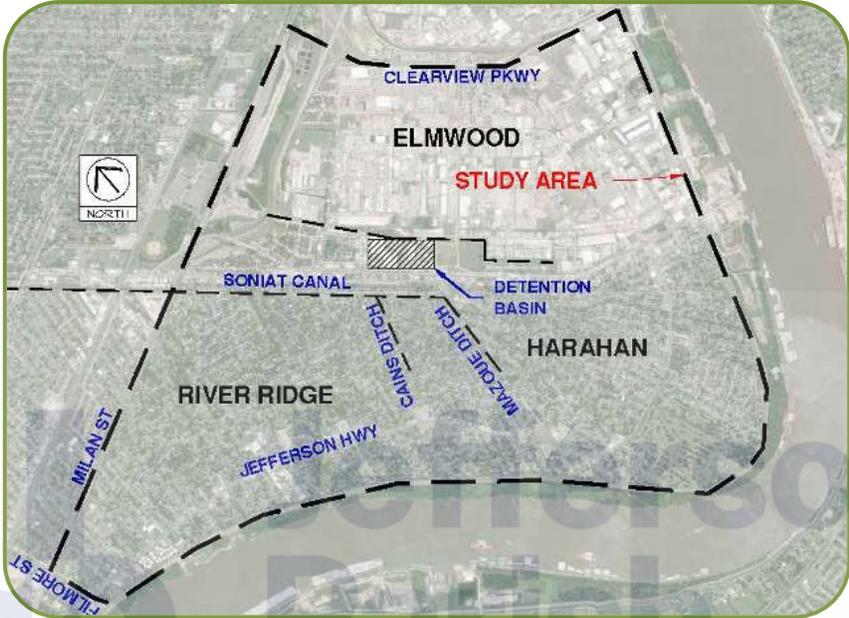
## TEC Professional Services Questionnaire

### PROJECT NO. 7

<p><b>Project Name, Location and Owner's contact information:</b></p> <p style="text-align: center;"><b><i>Lafitte Drainage Improvement Program</i></b> Jefferson Parish, Louisiana</p> <p style="text-align: center;">Town of Jean Lafitte 2654 Jean Lafitte Boulevard Lafitte, LA 70067 Mayor Timothy P. Kerner, Jr. 504-689-2208 Email: <a href="mailto:tkerner@townofjeanlafitte.com">tkerner@townofjeanlafitte.com</a></p> <p style="text-align: center;"><b>KEY PERSONNEL</b></p> <p>Richard C. Meyer, P.E. Mark Schutt, P.E. Robert Klare, P.E.</p> <p style="text-align: center;"><b>HIGHLIGHTS</b></p> <ul style="list-style-type: none"> <li> Project Management</li> <li> 30,000 LF of Subsurface Drainage</li> <li> Environmental Clearance</li> <li> Community Development Block Grant (CDBG) Funded</li> <li> Traffic Control</li> <li> Utility Conflicts</li> </ul>	<p><b>Nature of Firm's Responsibility:</b> <i>Project Management, Design, Bidding, Construction Administration &amp; Inspection</i></p> <div style="text-align: center;">  </div> <p><i>Meyer Engineers, Ltd. (Meyer)</i> provided engineering and project management services for the design, preparation of plans and specifications, and construction administration for the <b><i>Drainage Improvement Program</i></b>.</p> <p>The project included the installation of more than 30,000 linear feet of subsurface drainage on 27 different streets throughout the Town of Jean Lafitte and surrounding areas to improve the drainage conveyance to the existing pump stations.</p> <p>Tasks included coordination for Community Development Block Grant (CDBG) funding, providing environmental clearance, completing DOTD utility permits, design, and construction administration and inspection.</p> <p>Meyer coordinated work with Town of Jean Lafitte, Jefferson Parish Drainage and Engineering Departments, Jefferson Parish Administration, and U.S. Department of Housing and Urban Development (HUD).</p> <p>The program was divided in phases and projects. Meyer completed the design of four (4) Bid Packages. Meyer also provided Project Management, which included coordinating several design consultants in the preparation of the Construction Documents for the Bid Packages. Meyer also completed the <b><i>Lafitte Master Drainage Plan</i></b> which precipitated this project.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2" style="width: 25%;"><b>Completion Date (Actual or estimated):</b></th> <th colspan="2" style="text-align: center;"><b>Estimated Cost:</b></th> </tr> <tr> <th style="width: 45%; text-align: center;"><b>Entire Project:</b></th> <th style="width: 30%; text-align: center;"><b>Work for which Firm was Responsible:</b></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">2016</td> <td style="text-align: center;">\$6,700,000</td> <td style="text-align: center;">100%</td> </tr> </tbody> </table>	<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>		<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>	2016	\$6,700,000	100%
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>								
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>							
2016	\$6,700,000	100%							

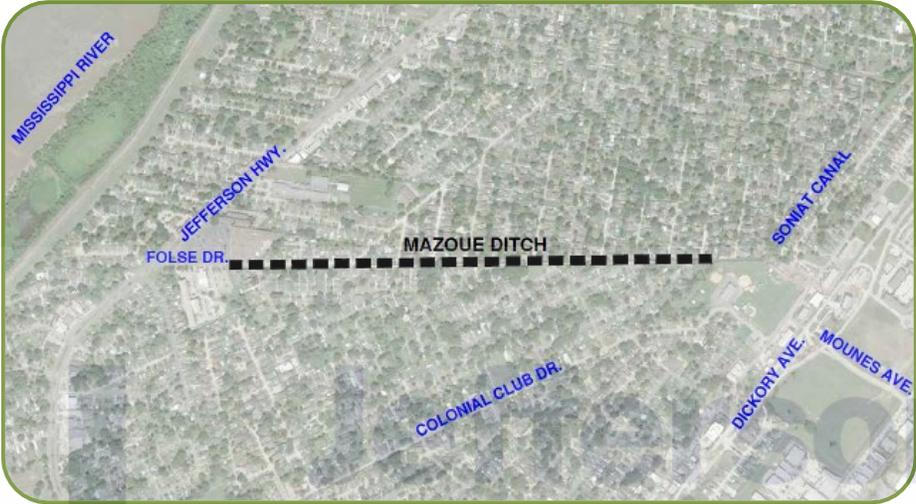
## TEC Professional Services Questionnaire

### PROJECT NO. 8

<p><b>Project Name, Location and Owner's contact information:</b></p> <p style="text-align: center;"><b><i>River Ridge, Harahan, Elmwood Drainage Feasibility Study</i></b></p> <p>Jefferson Parish, Louisiana</p> <p>Jefferson Parish Dept. of Drainage 1221 Elmwood Park Boulevard, Suite 907 Harahan, LA 70123 Mr. Mitch Theriot, Director 504-736-6751 Email: <a href="mailto:MTheriot@jeffparish.net">MTheriot@jeffparish.net</a></p> <p><b>KEY PERSONNEL</b></p> <p>Richard C. Meyer, P.E. Jitendra C. Shah, P.E. David H. Dupre, P.E.</p> <p><b>HIGHLIGHTS</b></p> <ul style="list-style-type: none"> <li>✦ Drainage Feasibility Study</li> <li>✦ UNET Model</li> <li>✦ Public Meetings</li> </ul>	<p><b>Nature of Firm's Responsibility:</b></p> <p style="text-align: center;"><b><i>Drainage Feasibility Study, Computer Modeling &amp; Drainage Design</i></b></p> <div style="text-align: center;">  </div> <p><i>Meyer Engineers, Ltd. (Meyer)</i> prepared a <i>Drainage Feasibility Study</i> for the incorporated areas of River Ridge, Harahan and Elmwood which included the following tasks:</p> <ul style="list-style-type: none"> <li>✦ Identification of flood prone areas in River Ridge, Harahan, and Elmwood.</li> <li>✦ Analysis of problem areas identified by the Parish, Soniat Drainage Advisory Board and local residents.</li> <li>✦ Created computer models of existing and proposed interior drainage systems, for the 10-year storm event using the <i>UNET Model</i>.</li> <li>✦ Calibrated and verified the computer model based on known problem or flood prone areas.</li> <li>✦ Addressed the overall street drainage system to the major outfalls. Anticipated outfalls were included.</li> <li>✦ Recommended options to existing drainage system to reduce peak flows and redirect the stormwater runoff.</li> <li>✦ Recommended alternatives such as adding a detention pond or a pump station.</li> <li>✦ Prioritized recommended improvements. After discussion with Jefferson Parish Officials, two options were modeled using UNET model.</li> <li>✦ Identified forming a sub-district to fund needed drainage improvements as a potential funding source.</li> <li>✦ Recommended projects included detention ponds in upper reaches of Cross Canal and improvements to Crochet Ditch, Camp Plauche Ditch, and St. Peter's Ditch.</li> <li>✦ Public meetings and presentations to City Council and Civic Groups.</li> </ul>				
<p><b>Completion Date (Actual or estimated):</b></p> <p style="text-align: center;">1993</p>	<p><b>Estimated Cost:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"><b>Entire Project:</b></td> <td style="width: 50%; text-align: center;"><b>Work for which Firm was Responsible:</b></td> </tr> <tr> <td style="text-align: center;">\$8,000,000</td> <td style="text-align: center;">100%</td> </tr> </table>	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>	\$8,000,000	100%
<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>				
\$8,000,000	100%				

## TEC Professional Services Questionnaire

### PROJECT NO. 9

<p><b>Project Name, Location and Owner's contact information:</b></p> <p style="text-align: center;"><b><i>Mazoue Ditch Drainage Improvements</i></b> Jefferson Parish, Louisiana</p> <p>Jefferson Parish Dept. of Drainage 1221 Elmwood Park Boulevard, Suite 907 Harahan, LA 70123 Mr. Mitch Theriot, Director 504-736-6751 Email: <a href="mailto:MTheriot@jeffparish.net">MTheriot@jeffparish.net</a></p> <p><b>KEY PERSONNEL</b></p> <p>Richard C. Meyer Jitendra C. Shah Eric Colwart</p> <p><b>HIGHLIGHTS</b></p> <ul style="list-style-type: none"> <li>✿ 11' x 10' Concrete U-Channel</li> <li>✿ 11' x 10' Sheet Pile Wall Section</li> <li>✿ 10' x 8' Concrete Box Culvert</li> <li>✿ Utility Adjustment and Pavement Replacement</li> </ul>	<p><b>Nature of Firm's Responsibility:</b> <i>Design, Bidding, Construction Administration &amp; Inspection</i></p> <div style="text-align: center;">  </div> <p><b>Meyer Engineers, Ltd. (Meyer)</b> completed the design, construction administration, and inspection for the <i>drainage improvements</i>. The project was constructed in six (6) phases as funding became available through the Louisiana Statewide Flood Control Program. The project consisted of the following typical sections:</p> <ul style="list-style-type: none"> <li>✿ 3,000' long - 11' wide and 10' deep sheet pile section. Approximately 30' long sheet pile and 18" thick bottom concrete slab was installed.</li> <li>✿ 200' long - 11' wide and 10' deep concrete u-channel.</li> <li>✿ 1,050' long - 10' x 8' concrete box culvert.</li> </ul> <p>The work also included slope paving, drainage manholes, catch basins, drain line adjustments, utility adjustment, fencing and pavement replacement.</p> <p>Meyer considered the <i>hydraulic parameters</i> and construction issues to develop several options and design sections, to solve the challenge of constructing improvements within a tight (24') right of way.</p> <div style="text-align: center;">  </div>					
<p><b>Completion Date (Actual or estimated):</b></p> <p style="text-align: center;">2016</p>	<p><b>Estimated Cost:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"><b>Entire Project:</b></td> <td style="width: 50%; text-align: center;"><b>Work for which Firm was Responsible:</b></td> </tr> <tr> <td style="text-align: center;">\$12,400,000</td> <td style="text-align: center;">100%</td> </tr> </table>		<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>	\$12,400,000	100%
<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>					
\$12,400,000	100%					

## TEC Professional Services Questionnaire

### PROJECT NO. 10

**Project Name, Location and Owner's contact information:**

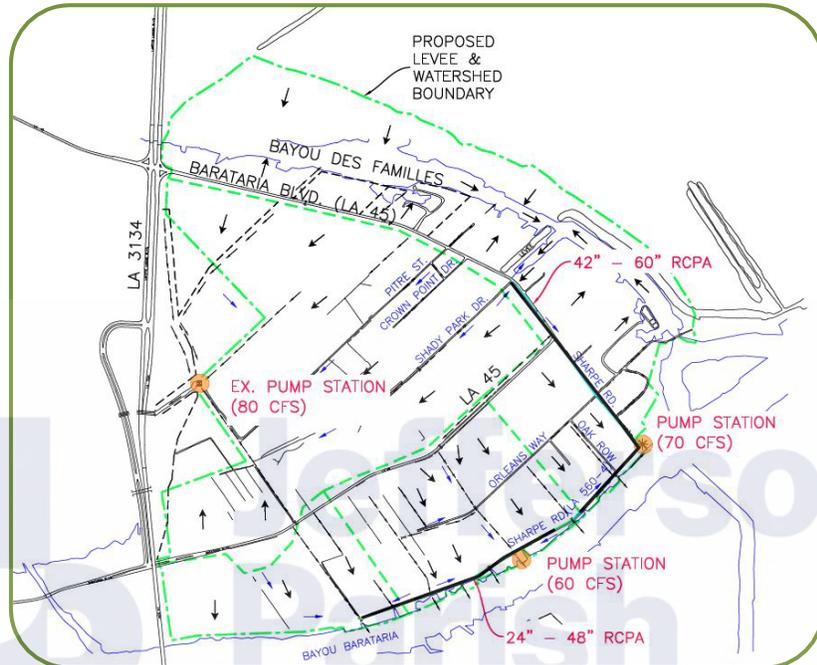
**Nature of Firm's Responsibility:**

*Design & Construction Administration*

### **Crown Point Drainage Improvements**

Jefferson Parish, Louisiana

Lafitte Area Wide  
Independent Levee District  
799 Jean Lafitte Boulevard  
Lafitte, LA 70064  
Ms. Nicole Cooper, Director  
of Administration  
504-689-2208  
Email:  
[ncooper@townofjeanlafitte.com](mailto:ncooper@townofjeanlafitte.com)



#### KEY PERSONNEL

Richard C. Meyer, P.E.  
Jitendra C. Shah, P.E.  
David H. Dupre, P.E.  
Donovan Duffy, P.E.  
Christopher Rowan, P.E.

*Meyer Engineers, Ltd. (Meyer)* is performing design and construction administration on **two (2) drainage improvement projects and two (2) drainage pump stations** in Crown Point. These projects will provide drainage support for the levees that being designed in the Crown Point drainage basin. Meyer developed the general drainage concept of the design.

Drainage trunk lines varied in size from **24" RCPA to 60" RCPA**. A **6' x 4' box culvert** is designed to cross under LA 560. Flap gates on drain lines, road repair and water line offsets are included. The two (2) required drainage pump stations will convey 60 CFS and 70 CFS, respectively.

The project will include coordination with the Lafitte Levee District, LADOTD, Jefferson Parish, and CPRA. Subconsultants Meyer managed the following: surveyors, geotechnical, environmental, and electrical engineers.

A challenge encountered on the project was calculating the drainage design. The **design needs to be operational for normal gravity conditions, as well as when the flood gates are closed**, as well as when the drainage pump stations are operating. Drainage calculations included the **Rational Formula** for gravity plan flow, the **National Resources Conservation Service (NRCS)** for the DOTD highway crossings and **PCSWMM Modeling** for the drainage pump stations.

#### HIGHLIGHTS

- Multiple Bid Packages
- Drainage Design
- Pump Station Design
- Site Location Determination
- PCSWMM Modeling

**Completion Date (Actual or estimated):**

On-Going

#### Estimated Cost:

**Entire Project:**

\$12,300,000

**Work for which Firm was Responsible:**

100%

## 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. Parish of Jefferson and LSED	Mickey O'Connor General Contractor, Inc. Gray Insurance, and Meyer Engineers, Ltd.	Resolved and dismissed in 2016.
2. Parish of Jefferson and LSED	NY & Associates, Infinity Engineers, Meyer Engineers, Ltd. and General Contractor	Resolved and dismissed in 2015.

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

**PROFESSIONAL TRAINING AND EXPERIENCE**

*Meyer Engineers, Ltd. (Meyer)*, an Engineering/Architectural professional consulting firm, located in Metairie, Louisiana, has been serving the Greater Metropolitan New Orleans area including Jefferson Parish since 1963. Meyer has a diverse background in providing design services and construction management related to *drainage canals, pump stations, and related structures* for thirty (30) years. Meyer is a Louisiana registered Engineering and Architectural firm with Richard C. Meyer serving as President and Chief Executive Officer.

*Meyer has been heavily involved in drainage, green infrastructure, drainage canal and box culvert design, hydraulic modeling,* and construction engineering and inspection projects in south Louisiana. Meyer has worked closely with Jefferson Parish, LADOTD, and for many major municipalities and Parishes in the State of Louisiana, including working on several State and Federally funded projects through FEMA, HMGP, and the DOTD Statewide Flood Control Program.



Meyer has served as the *Program Manager* for *Drainage Master Plans* in the *Jefferson Parish* municipalities of the Town of Jean Lafitte, City of Harahan, City of Mandeville, and St. Bernard Parish. In this role, Meyer has experience in developing the following tasks:

- ✿ Prepared maps identifying flood prone areas and areas which have flooded in the past.
- ✿ Investigated location and condition of existing culverts identified as potential problems.
- ✿ Analyzed problem areas identified by the Council, Administration, citizens, and the FEMA CRS Coordinator.
- ✿ Held a public hearing to gather information on history of flooding and depth of flooding.
- ✿ Analyzed existing interior drainage system for multiple year storm events.
- ✿ Recommended needed improvements.
- ✿ Prepared preliminary probable costs for improvements.
- ✿ Prioritized recommended improvements.
- ✿ Identified funding sources.

The Meyer Team is experienced and knowledgeable on *flood mitigation/reduction projects*, including projects for *Jefferson Parish*. Meyer *Drainage Master Plan* experience includes:

**Jefferson Parish Storm Water Management Plan, Jefferson Parish**

Jefferson Parish has a demonstrated interest in *promoting resiliency and sustainability* in its actions and plans, particularly related to *Storm Water Management and related issues*. The goal of the project is to evaluate existing policies and regulations to make recommendations for revisions to Jefferson Parish's development regulations to encourage "*Green Infrastructure*". The project scope consists of reviewing previous studies and plans and existing zoning and development regulations relevant to drainage and storm water management. The project team will also look at how other communities address storm water and specifically alternative green infrastructure policies and regulations. The final product will be a *plan that evaluates the various green infrastructure strategies available to the Parish and recommend specific solutions to reduce and treat stormwater at its source while delivering environmental, social, and economic benefits*.

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

**Elmwood Business Park Drainage Study, Jefferson Parish**

Meyer completed a *Drainage Study* of the Elmwood Business Park area, which was bounded by Citrus Boulevard, G Street, Sams Avenue, and Edwards Avenue. The business park area studied was predominately commercial establishments consisting of approximately 190 acres. Drainage system upgrades were recommended for each street. If all streets within the study area have internal drainage improved, the estimated construction cost was approximately \$10.2 Million.



**Harahan Master Drainage Study, Jefferson Parish**

Meyer prepared a *Drainage Master Plan* for the City of Harahan to create a Storm Water Management Program which included the following: creation of maps identifying flood prone areas; field investigation of location and conditions of existing culverts as potential problems, research of previous drainage studies and their recommendations; analyzed the problem areas identified by the City, Parish, Soniat Drainage Advisory Board, and residents; creation of computer models of the existing interior drainage system and improved conditions for 10-year storm event using the *EPA Storm Water Management Model (SWMM)*, calibrated and verified the computer model; addressed the overall street drainage system to the major outfalls, anticipated outfalls were included; recommended improvements to reduce stages in the canals thereby reducing flows and time that the system was flowing full; prepared cost estimates and prioritized improvements; *identified potential funding sources* such as cost share programs, bond issues, feeds, ad valorem taxes, retail sales tax revenue, and service charges.

**Woerner Montgomery Sod Farm Drainage Litigation, Jefferson Parish**

Meyer was hired as an expert to perform *drainage analysis and compiled a report* to aid the attorney's defense for the Woerner Montgomery Sod Farm against the plaintiffs, who flooded in the Donaldsonville, Louisiana area. The plaintiffs accused the sod farm of causing the flooding of their properties. The first phase of the project was to quantify the existing subsurface drainage system through research, field investigation and interviews. Existing as-built information, master plans, drainage studies, subdivision plans and rainfall data from the flood event were gathered for the study area. Interviews were conducted with the owner and parish drainage personnel to identify previous flood events and historical drainage patterns. A map of significant drainage features was created utilizing existing GIS and Google Earth as well as surveying key drainage features in the study area. After completing the detailed analysis, a hydrologic and hydraulic report was written for the attorney's defense of the Woerner Montgomery Sod Farm. Upon presentation of the report, the case was settled.

**Bissonet Plaza Master Drainage Plan, Jefferson Parish**

Meyer is completing the *drainage improvements* for the area bounded by Power Boulevard, Kawanee Avenue, Apollo Drive & W. Esplanade Avenue. The work consisted of using *SWMM to model the project area's subsurface drainage network and major outfalls*, including Canal No. 2 and Esplanade Canal. He utilized the existing Jefferson Parish East Bank *Master Drainage Model* to determine canal elevations throughout the 10-year 24-hour design storm. Meyer provided a *drainage report* with recommended improvements, and we are currently designing the first phase of the drainage improvements for construction.

**Beaver Creek Drainage Improvements/Detention Pond, Tangipahoa Parish**

Meyer is currently preparing a *Hydrology & Hydraulics Report* for the Beaver Creek drainage basin in the Village of Tangipahoa at the intersection of LA Hwy. 51 and LA Hwy. 440 (Center Street). Meyer will also prepare a *Benefit Cost Analysis and Hydrology & Hydraulic Analysis* which will include analyzing the effects of the upstream and downstream flow for the Beaver Creek Drainage Basin between Interstate 55 and Tangipahoa River; and performing a Hydraulic Analysis for the 25- and 100-year design storm event using *HEC-RAS and PCSWMM programs*.

**Mandeville Interior Master Drainage Plan, St. Tammany Parish**

Meyer prepared a *comprehensive Master Drainage Plan* for the City of Mandeville which included the following: prepared maps identifying flood prone areas and areas which have flooded in the past; investigated location and condition of existing culverts identified as potential problems; analyzed problem areas identified by the Council, Administration, citizens, and the Mandeville FEMA CRS Coordinator; held a public hearing to gather information on history of flooding and depth of flooding; and analyzed the existing interior drainage system for a 10-year storm event.

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

**Drainage design** projects in **Jefferson Parish** completed by Meyer include:

- ✦ Mazoue Ditch Drainage Improvements
- ✦ Gardere Canal
- ✦ Industry Canal Improvements
- ✦ Dwyer Road Intake Canal
- ✦ Trapp Canal Improvements
- ✦ Bissonet Drainage
- ✦ Crown Point Drainage
- ✦ Upper Soniat Drainage

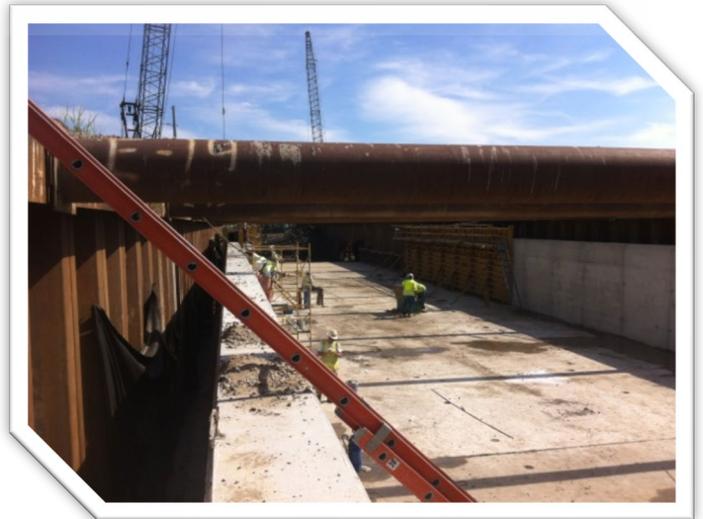
Meyer **Construction Management of Drainage Projects** for U.S. Army Corps of Engineers, New Orleans District include:

- ✦ New Orleans to Venice Hurricane Protection: Magnolia Pump Station, Plaquemines Parish
- ✦ West Bank Vicinity Armoring Project, St. Charles, Jefferson, Orleans, and Plaquemines Parishes
- ✦ Southeast Louisiana Flood Protection, Orleans Parish
- ✦ Inner Harbor Navigational Lock, St. Bernard Parish
- ✦ Lake Pontchartrain Vicinity (LPV 9), Orleans Parish
- ✦ Comite Diversion Project, West Baton Rouge Parish
- ✦ SELA Algiers (Southeast Louisiana Flood Protection), Orleans Parish

**Project Understanding/Project Approach**

Since Meyer has completed numerous drainage analyses and computer models for Jefferson Parish, Meyer already has a thorough knowledge of compiling a Drainage Master Plan of this magnitude and the entities involved. Meyer recognizes that Jefferson Parish has a complex drainage network that ties into the local neighborhoods. Meyer also recognizes that a full inventory needs to be updated and flood prone areas analyzed. From the inventory and analysis, required improvements would be recommended. These improvements would be incorporated into the computer model to check their benefit to the flood prone area and the overall drainage system. Meyer will use lidar data and ARCGIS to show the water surface elevations for existing and proposed conditions, which will highlight the impacts of each proposed improvement. Preliminary cost estimates would be generated for each recommended project. These recommended projects and their costs could be used by Jefferson Parish to establish a Drainage Master Plan to guide selection of future drainage improvement projects and provide guidance for development. Meyer's project approach includes:

- ✦ Conduct Kickoff Meeting
- ✦ Compile Previous Drainage Studies
- ✦ Investigate Flood Prone Areas
- ✦ Complete Topographic Survey (As Needed)
- ✦ Update Existing Computer Model
- ✦ Recommend Improvements
- ✦ Evaluate Recommended Projects in Computer Model
- ✦ Calculate Preliminary Probable Construction Costs
- ✦ Assemble Recommended Projects & Costs in Master Plan



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

**THE MEYER TEAM**

Meyer will serve as the Prime Engineer and will be fully responsible for contract and project execution. As such, Meyer will meet the demands and staffing needs of Jefferson Parish for performing design, quality control and construction management. Meyer's approach and methodology will guide this project through proper planning, project oversight, project controls, and reporting, schedule development and updating, budget developing and budget tracking.

*The Meyer Team* is made up of individuals Jefferson Parish's Departments are familiar with. They are Louisiana/Jefferson Parish based with strong ties and commitment to the area and is intimately knowledgeable about the processes and design standards of Jefferson Parish. Meyer has teamed with three (3) subcontractors, hereinafter referred to as *the Meyer Team*:

- ✦ *All South Consulting Engineers* will perform Topographic Surveying Services.
- ✦ *BFM Corporation* will perform Topographic Surveying Services.
- ✦ *Bryant Hammett & Associates* will perform Topographic Surveying Services.

Meyer and all our team members have successfully completed projects requiring similar services to what Jefferson Parish needs. Meyer has worked with each Team Member in the past and has coordinated multiple professional subcontractors in the past. The projects summarized in this Statement of Qualifications illustrate The Meyer Team's experience in executing projects having the following characteristics:

- ✦ Ability to mobilize qualified staff in a short period of time.
- ✦ Capability of providing clear and concise communication between the team, owner, and the coordinating agencies.
- ✦ Ensuring traffic is maintained throughout the construction effort.

**TECHNICAL COMPETENCE OF SELECTED MEYER TEAM MEMBERS**



*All South Consulting Engineers, LLC (All South)* is a Limited Liability Corporation owned by Timothy Bonura, Jens Nielsen Jr., and Stephen Smith. Established in March 2004, All South is a multi-disciplinary firm that provides Civil and Structural Engineering, Land and Hydrographic Surveying, Program and Grant Management, Construction Management, Resident Inspection, and Disaster Management to federal, state, and municipal agencies, as well as, private clients throughout the Gulf Coast. The All South team includes 52 professionals driven to excellence and focused on our

client's needs. We are made up of 13 Louisiana Licensed Professional Engineers (Civil and Structural), 1 Professional Land Surveyor, 3 Survey Crews, and 2 former FEMA Public Assistance Program employees with over 15 continuous years of program and grant administration experience. Our staff also includes program managers, CADD technicians/draftsmen, grant specialist, inspectors, field monitors and administrative support staff, all of which provide years of experience to help ensure that our work is exceptional.



Established in 1982, *BFM Corporation, LLC (BFM)*, Professional Land & Hydrographic Surveying, has provided surveying services to public & private concerns throughout the Gulf Coast, covering all facets of engineering, construction, and forensics; topographic, hydrographic, and high-definition laser scanning. BFM's Ralph P. Fontcuberta, Jr., PLS, is a Louisiana-Registered Professional Land Surveyor (since 1974); 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. BFM's experience with and throughout St. Tammany Parish includes hundreds of projects, including roadway, bridge, sewer & wastewater, drainage, parks & recreation, and building/structure projects, amongst others.



*Bryant Hammett & Associates, LLC (BHA)* is a Louisiana-based Limited Liability Corporation multi-disciplinary consulting land surveying, civil engineer, and disaster response consulting firm that provides services for various governmental and private concerns. BHA has been in business over thirty years, since August 1, 1984. We

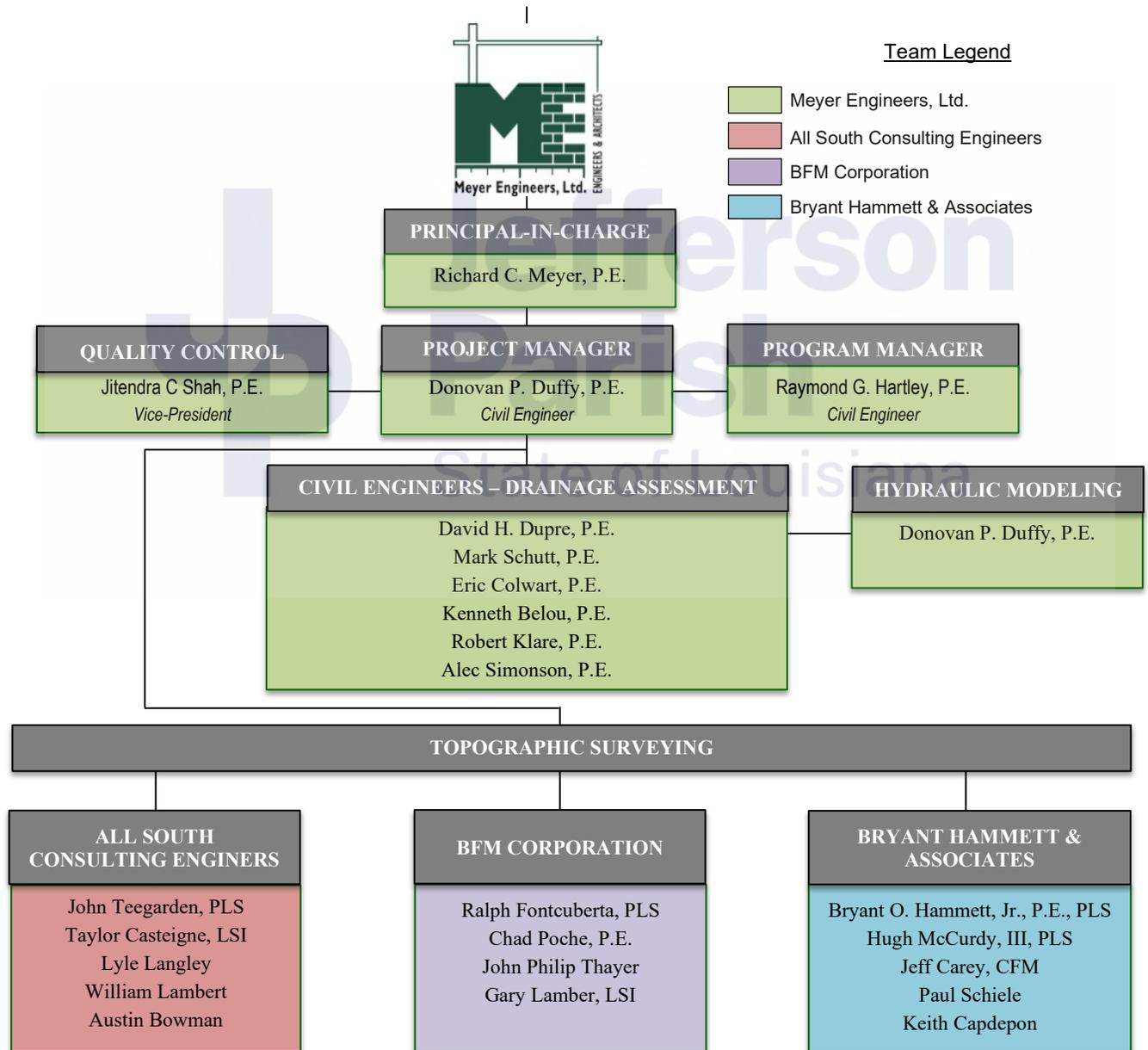
have grown from a small four-member firm to operate offices in Plaquemines, Jefferson, East Baton Rouge, Ascension and Concordia Parishes. All of our technical personnel have experience in the engineering and *land surveying fields*.

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



Team Legend

- Meyer Engineers, Ltd.
- All South Consulting Engineers
- BFM Corporation
- Bryant Hammett & Associates



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

**SIZE OF FIRM**

Meyer currently employs twelve (12) Louisiana Licensed Civil Engineers (two (2) with structural experience and all with drainage experience), two (2) Engineer Interns, five (5) Licensed Architects, one (1) Intern Architect, one (1) Planner (Urban & Regional), thirty (30) Construction Inspectors, and one (1) Estimator. Meyer has equipment and the facilities to complete this project. Our firm's equipment includes approximately thirty (30) computers, three (3) photocopiers, ten (10) printers capable of printing black & white and/or color in various sizes, and two (2) plotters for AutoCAD Drawings. Some of the computer software Meyer owns includes AutoCAD, *HydroCAD (drainage design)*, *SWMM*, *PCSWMM*, *HEC-RAS*, *HydroCad*, *ARCGIS*, *QGIS*, Microstation, Roadcalc (roadway design), Cybernet (water design) Licenses, Microsoft Word, Corel WordPerfect, and Microsoft Excel. Meyer also has scanning capabilities, and in-house reproduction capabilities. All firm equipment software is available for these projects. Meyer can provide contract drawings in AutoCAD or Microstation format and contract specifications in Microsoft Word or WordPerfect format.

**CAPACITY FOR TIMELY COMPLETION**

Currently, Meyer has staff to immediately begin this project. Meyer is knowledgeable of all the Jefferson Parish contract requirements. The firm has an excellent record of delivering a quality professional service in a timely manner to its public and private clients. Meyer has never been placed in default for not being in compliance with performance schedules. The firm is cognizant of the total project costs and schedules, including architectural, engineering, property acquisition and construction costs. The firm will consider these important factors in the management of the project. The firm has instituted a quality control program. The firm's current work will not conflict with this project. Personnel are available to manage the project and prepared to begin work immediately.

**PAST PERFORMANCE**

Meyer has been deeply involved in working with Jefferson Parish on various drainage projects over the past four decades. In addition, Meyer has worked on projects involving representatives from the LADOTD, the FHWA, municipal representatives, government officials with the Federal, State and local level, utilities representatives, contractors, and the general public. The firm is very familiar with Jefferson Parish standard specifications, practices and design requirements, and understands the needs of the Parish and can work within time and budget constraints. Meyer has a record of providing services in a timely manner. Meyer has working with Jefferson Parish on numerous projects including Edenborn Avenue Drainage Improvements, Oakwood Terrytown Drainage and Rosethorne Sewer among many others.

**LOCATION OF THE PRINCIPAL OFFICE WHERE WORK WILL BE PERFORMED**

Meyer is an Engineering/Architectural firm located in the Metro New Orleans area. Work for this project will be performed at Meyer's office located at: *4937 Hearst Street - Suite 1B, Metairie, Louisiana 70001*. Meyer is headquartered within Jefferson Parish.

**ADVERSARIAL LEGAL PROCEEDINGS WITH THE PARISH**

There is no ongoing litigation between Meyer and Jefferson Parish. There are no adversarial legal proceedings between Meyer and the Parish.

**PRIOR SUCCESSFUL COMPLETION OF PROJECTS**

The following references can attest to the quality of work for Meyer drainage projects:

- ✦ Jefferson Parish, Mr. Neil Schneider, Phone: 504-736-6833
- ✦ Jefferson Parish, Mr. Mark Drewes, Phone: 504-736-6500
- ✦ St. Bernard Parish, Mr. Matthew Falati, Phone: 504-278-4315
- ✦ St. Charles Parish, Mr. Miles Bingham, Phone: 985-783-5102
- ✦ Town of Jean Lafitte, Mayor Timothy Kerner, Phone: 504-689-7801

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

Signature:  \_\_\_\_\_ Print Name: Richard C. Meyer

Title: President Date: March 24, 2022



## TEC Professional Services Questionnaire

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

SOQ 22-014 to provide Professional Engineering and Supplemental Services for a Drainage Master Plan for the East Bank of Jefferson Parish – Res. No. 138896

**B. Firm Name & Address where Project work will be performed:**



652 Papworth Avenue,  
Metairie, Louisiana 70005

**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:**

John Teegarden, P.L.S.  
Vice President, Survey Division Manager  
504-322-2783  
[jteegarden@ascellc.com](mailto:jteegarden@ascellc.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.**

Engineering  
Timothy P. Bonura, P.E.  
Managing Partner  
504-322-2783  
[tim@ascellc.com](mailto:tim@ascellc.com)

Surveying  
John Teegarden, P.L.S.  
Vice President, Survey Division Manager  
504-322-2783  
[jteegarden@ascellc.com](mailto:jteegarden@ascellc.com)

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

<u>8</u> Administrative	<u>1</u> Estimators	<u>1</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>0</u> Geologists	<u>2</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u>2</u> Graduate Engineers
<u>9</u> Civil Engineers	<u>0</u> Interior Designers	<u>4</u> Project Managers
<u>10</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>2</u> Clerical
<u>0</u> Ecologists	<u>1</u> Land Surveyor	<u>8</u> Grant/Funding Specialist
<u>0</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>5</u> Engineer Intern	<u>0</u> Environmental Engineers	
<u>1</u> Professional Land Surveyor		<u>65</u> <b>TOTAL</b>

**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.

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. N/A		
2.		
3.		

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

All South Consulting Engineers, LLC will provide **7** key personnel to this project as needed: 1 Professional Land Surveyor, 1 Land Surveyor Intern, 2 Survey Party Chiefs, and 3 Survey Assistants.

## 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:**

**John Teegarden, PLS**  
Vice President, Survey Division Manager

**Project Assignment:**

Senior Professional Land Surveyor, Survey Project Manager

**Name of Firm with which associated:**

All South Consulting Engineers, LLC

**Years' experience with this Firm:**

7

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

International Correspondence School, Surveying and Mapping Course (2-year course completed)

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

1990/ Professional Land Surveyor/ Louisiana License No. 4635  
1999/ Professional Land Surveyor/ Mississippi License No. 2782

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

John S. Teegarden, PLS joined All South Consulting Engineers, LLC in 2014 as Vice President and Survey Division Manager. Mr. Teegarden has extensive experience in all aspects of land surveying including boundary, elevation, topographic, hydrographic, industrial, and construction projects. Over his 38-year career, he has participated in or directed surveys for a wide variety of clientele including local municipal and governmental agencies, state agencies, and federal agencies (including the U.S. Army Corps of Engineers). In his career, he has served as a Field Party Chief, Field Supervisor, CAD Technician, Project Manager, and Division Manager.

Mr. Teegarden's varied project experience includes high precision survey control, single and multibeam hydrographic surveys, large boundary surveys, surveys for public right-of-way taking, topographic route surveys, mapping of subsurface utilities based on the markings provided by a subsurface utility engineering firm, coastal restoration projects, laser scanning surveys and GPS project surveys, to name just a few. This experience includes over 20 years' experience in directing and performing hydrographic surveys. He has executed and/or supervised numerous hydrographic surveying projects throughout Coastal Louisiana.

**Tudor and Tallulah Drainage Analysis River Ridge, Jefferson Parish, Louisiana**

## TEC Professional Services Questionnaire

Mr. Teegarden provided topographic survey services and collected field data for the Tudor and Tallulah drainage project. This work included picking up horizontal and vertical data in the drainage area, including locating the multiple subsurface utilities that could affect the project.

### **Alidore Drainage Study and Improvements** *Lafourche Parish, Louisiana*

For this project, Mr. Teegarden obtained Topographic survey elevation data on culverts with pipe sizes and conditions, cross sections of ditches and canals for drainage study and design of a new pump station. Mr. Teegarden's role in this project included planning the survey, running GPS control, processing GPS and robotic total station files for import into AutoCAD Civil 3D. Party chief, ±71 Ac.

### **Taxiway Golf Drainage** *Houma Terrebonne Airport Commission, Houma, Louisiana*

Mr. Teegarden provided topographic survey services for the Taxiway Golf drainage improvement project. This project includes about 4,700' of subsurface drainage along the taxiway. The job also included catch basins, grading, and other features. He supervised the field crew, including the location of many utility conflicts in the project area. Mr. Teegarden also processed the field data for use in project design.

### **Canal No. 10 Underground Utility Locations** *Jefferson Parish, Louisiana*

Mr. Teegarden provided topographic survey services for the West Esplanade at Canal 10 Drainage Improvements project. His responsibilities included a topographic survey of canal crossing, location of underground utilities located by subsurface utility engineering contractor and added to an existing topographic survey.

### **Jean Lafitte Parkway Drainage** *Chalmette, Louisiana*

Mr. Teegarden provided a topographic and boundary survey of Jean Lafitte Parkway from Judge Perez Drive to the Forty Arpent Canal for the design of much needed drainage improvements.

### **Geisenheimer Canal Topographic Survey** *Jefferson Parish, Louisiana*

Mr. Teegarden led our survey teams in the preparation of a topographic survey that included the location of the Geisenheimer Canal Box Canal and the adjoining surface features from the north curb line of Airline Highway into the fairway of Metairie Country Club adjacent to Airline Highway.

### **Woodvine Ditch Topographic Survey** *Jefferson Parish, Louisiana*

Mr. Teegarden is providing a topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.

### **Loumor Outfall Ditch Topographic Survey** *Jefferson Parish, Louisiana*

Mr. Teegarden and the All South survey staff provided a topographic survey of the route that follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.

### **Lake Cataouatche Pump Station Topographic Survey** *Jefferson Parish, Louisiana*

Mr. Teegarden and his team prepared a topographic survey at the site of the current Lake Cataouatche pump station located on Churchill Farms. The survey area adjacent to the existing pump station will be the site for a new pump station under design. The survey included cross sections of the site and the adjacent canal along with the location of improvements in the project area.

### **Silt and Debris Measurement in Jefferson Parish Canals** *Jefferson Parish, Louisiana*

Mr. Teegarden is providing topographic and bathymetric survey services for the Jefferson Parish Drainage Department. We are surveying canals to determine the amount of silt build up utilizing All South's Z-Boat, a six-foot-long remotely controlled vessel equipped with GPS, a dual-frequency echosounder and a laptop to record the data.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>  Taylor Casteigne, LSI Land Surveyor Intern, Survey Supervisor
<b>Project Assignment:</b>  Land Surveyor Intern
<b>Name of Firm with which associated:</b>  All South Consulting Engineers, LLC
<b>Years' experience with this Firm:</b>  2
<b>Education: Degree(s)/Year/Specialization:</b>  Bachelor of Science / 2019 / Geomatics
<b>Active registration: Year first registered/discipline:</b>  2021/ Land Surveyor Intern/ Louisiana License No. 0000714
<b>Other experience and qualifications relevant to the proposed Project:</b>  Mr. Casteigne is a graduate from Nicholls State University with a degree in Geomatics. After graduation, he served as party chief and AutoCAD draftsman doing a variety of surveys for both roadways and pump stations in the state of Louisiana. He is well versed in the latest in surveying equipment technology to ensure a fast and accurate project survey.  <b>Bayou Vista Subdivision Drainage Model <i>Thibodaux, Louisiana</i></b> Mr. Casteigne performed full topographic survey services including retrieving existing Lidar data From the NGS website to be combined with survey data taken in the field in order to produce a drainage model for Bayou Vista Subdivision.  <b>Savanne Rd Drainage Improvements <i>Houma, Louisiana</i></b> Mr. Casteigne performed full boundary surveying services for the acquisition of a servitude by Terrebonne Parish for drainage Improvements. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD where a boundary map could be prepared.  <b>St. Louis Canal Rd <i>Houma, Louisiana</i></b> Mr. Casteigne performed full boundary surveying services for the acquisition of a servitude by Terrebonne Parish for drainage Improvements. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD and have a boundary map prepared.

## TEC Professional Services Questionnaire

### **Lirette St Pump Station** *Houma, Louisiana*

Mr. Casteigne performed full topographic survey and CAD services, for a drainage study to be completed of the entire subdivision, also for the construction and installation of a new pump station. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. Contours are then generated showing lines of constant elevation. The budget for the project was tracked daily ensuring that the survey was completed on time and under budget. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion.

### **Avoca Island Topographic Survey** *St. Mary Parish, Louisiana*

Mr. Casteigne performed full survey services including data collection, data processing, data management, CAD, and project budget oversight. This includes performing the necessary field work for the survey, then processing the data into a field book file. Once the data was in a field book it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. This project was done at the request of Avoca Island for drainage improvements to be made on the island.

### **Lisa Park Development** *Houma, Louisiana*

Mr. Casteigne performed full survey services including data collection, data processing, data management, CAD, and project budget oversight for improvements to be made in the open space at Lisa Park Elementary School. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. Contours are then generated showing lines of constant elevation. The budget for the project was tracked daily ensuring that the survey was completed on time and under budget. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Lyle Langley Survey Party Chief
<b>Project Assignment:</b>
Survey Party Chief
<b>Name of Firm with which associated:</b>
All South Consulting Engineers, LLC
<b>Years' experience with this Firm:</b>
7
<b>Education: Degree(s)/Year/Specialization:</b>
SOWELA Technical Community College/ 2012/ Drafting
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Langley has worked on a wide variety of surveying projects and assisted in the integration of a robotic total station and our hydrographic software to track the hydrographic boat in areas where GPS was not feasible. He has the necessary training to use hydrographic equipment, HDS Laser Scanner and is familiar with Hypack hydrographic software. His work experience includes hydrographic surveys using a rod and tape, a total station, GPS and single beam echo sounders to record the data, using side scan sonar to identify underwater obstructions and using a magnetometer to sweep for pipelines and other ferrous metal debris. He has supervised field crews on many topographic and boundary surveys. His current and previous projects include, but not limited to:</p> <p><b>Tudor and Tallulah Drainage Analysis</b> <i>Jefferson Parish, Louisiana</i> Mr. Langley was part of a team that provided topographic survey services and collected field data for the Tudor and Tallulah drainage project. This work included picking up horizontal and vertical data in the drainage area, including locating the multiple subsurface utilities that could affect the project.</p> <p><b>Alidore Drainage Study and Improvements</b>, <i>Lafourche Parish, Louisiana</i> Mr. Langley led the field crew to provide a topographic survey to obtain an elevation data on culverts with pipe sizes and conditions, cross sections of ditches and canals for drainage study and design of a new pump station. Mr. Langley was the Party Chief for this effort. Party chief, ±71 Ac.</p> <p><b>Canal No. 10 Underground Utility Locations</b>, <i>Jefferson Parish, Louisiana</i></p>

## **TEC Professional Services Questionnaire**

Mr. Langley located underground utilities as marked by a Subsurface Utility Engineer and added to an existing topographic survey.

### **Woodvine Ditch Topographic Survey** *Jefferson Parish, Louisiana*

Mr. Langley and his crew provided a topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.

### **Loumor Outfall Ditch Topographic Survey** *Jefferson Parish, Louisiana*

Mr. Langley provided a topographic survey of the route that follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.

### **Jean Lafitte Parkway Drainage Improvements**, *St. Bernard Parish, Louisiana*

Mr. Langley performed the boundary and topographic survey of Jean Lafitte Parkway from Judge Perez Drive to the Forty Arpent Canal for the design of much needed drainage improvements.

### **Lake Cataouatche Pump Station Topographic Survey**, *Jefferson Parish, Louisiana*

Mr. Langley and his team prepared a topographic survey at the site of the current Lake Cataouatche pump station located on Churchill Farms. The survey area adjacent to the existing pump station will be the site for a new pump station under design. The survey included cross sections of the site and the adjacent canal along with the location of improvements in the project area.

### **Lake Lery Marsh Creation and Rim Restoration**, *St. Bernard Parish, Louisiana*

Mr. Langley provided topographic and bathymetric surveys for the design of shoreline armoring and the creation and nourishment of the surrounding marshland. The work included standard GPS RTK survey work in coastal and marsh environments, a bathymetric survey of a large portion of Lake Lery and a magnetometer survey of the proposed borrow area and access routes.

### **Bayou Country Sports Complex** *Houma, Louisiana*

Mr. Langley provided topographic survey services for several aspects of the Bayou Country Sport Park Development in Terrebonne Parish. This 140-acre development includes baseball, softball, soccer, and other amenities. Mr. Langley provided survey services to support the development of the drainage, water, sewer, and roadway improvements, and also performed significant construction layout services.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
William Lambert Survey Party Chief
<b>Project Assignment:</b>
Survey Party Chief
<b>Name of Firm with which associated:</b>
All South Consulting Engineers, LLC
<b>Years' experience with this Firm:</b>
1
<b>Education: Degree(s)/Year/Specialization:</b>
High School Diploma
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Lambert joined All South Consulting Engineers, LLC in April of 2021. He has over 15 years of experience in land surveying and has served as an instrument man to a survey party chief. He has performed topographic surveys, right-of-way, ALTAs, as-builts, stakeouts, boundaries, and elevation certificates, using Leica robotic instrument and Trimble GPS. He has also performed construction layout using Trimble Robotics and GPS and served as a survey helper in industrial surveys.</p> <p><b>LALD Lower Lafitte Drainage Improvements</b> <i>Jefferson Parish, Louisiana</i> Mr. Lambert has completed a full topographic survey of approximately 5500ft of streets for the purpose of improving the existing drainage in the area. This included establishing project control and temporary benchmarks and supervising the survey crew ensuring that the project was completed based on the scope of work in an efficient manner.</p> <p><b>Marrero St. Pump Station</b> <i>Jefferson Parish, Louisiana</i> Mr. Lambert has completed a full topographic survey of the Marrero St. Pump Station for the purpose of making improvements to the pump station. This included establishing project control and temporary benchmarks and supervising the survey crew ensuring that the project was completed based on the scope of work in an efficient manner.</p> <p><b>Pines Village Road Reconstruction</b> <i>New Orleans, Louisiana</i> Mr. Lambert performed a full topographic survey of approximately 8800ft of roadway in New Orleans. This included overseeing the collection of all necessary field data within the right of way of the designated streets and keeping detailed field notes of the data being obtained. This project was done at the request of the city of New Orleans for the purpose of full depth reconstruction on these roadways.</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Austin Bowman Survey Technician
<b>Project Assignment:</b>
Survey Technician
<b>Name of Firm with which associated:</b>
All South Consulting Engineers, LLC
<b>Years' experience with this Firm:</b>
1
<b>Education: Degree(s)/Year/Specialization:</b>
A.A.S. HVAC NCCER Level Graduate/ 2020/ Nunez Community College
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Bowman joined All South Consulting Engineers, LLC in March of 2021 as a survey assistant. He received an Associate of Applied Science degree in HVAC NCCER Level from Nunez Community College in 2020. Since joining All-South, Mr. Bowman has assisted in full topographic and hydrographic surveys.</p> <p><b>Westside Blvd (W. Park-Alma) Houma, Louisiana</b> Mr. Bowman assisted in the completion of a full topographic survey along Westside Blvd in Houma from W. Park Ave to Alma St. This included assisting the Survey Party Chief in collecting field data inside the right of way of Westside Blvd. This project was done at the request of the Terrebonne Parish Government for the purpose of replacing the existing roadside drainage.</p> <p><b>Bayou Baratavia Waterline Crossing Lafitte, Louisiana</b> This project was done at the request of Jefferson Parish for the installation of a new waterline running along Rosethorne Rd then crossing Bayou Baratavia. For this project, Mr. Bowman assisted the Survey Party Chief in collecting all the field data necessary for the competition of the survey. This project included full topographic and hydrographic survey services including data collection, data processing, data management, CAD, and project budget oversight. This includes performing the necessary field work for the survey, then processing the data into a field book file. Once the data was in a field book it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface, Plan and Profile sheets could be generated along with cross sections across Bayou Baratavia.</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Jackson Sorrells <i>Senior CADD Technician, Drafting Supervisor</i>
<b>Project Assignment:</b>
CADD Technician III/ Draftsman
<b>Name of Firm with which associated:</b>
All South Consulting Engineers, LLC
<b>Years' experience with this Firm:</b>
5
<b>Education: Degree(s)/Year/Specialization:</b>
Associate of Applied Science / 2017/ Civil Construction and Engineering Technology Associate of Applied Science / 2011/ Drafting and Design
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Sorrells joined the All South team after 8 years in the Land Surveying industry. His experience includes AutoCAD C3D which he utilizes in survey and design projects that include topographic, boundary, route corridor surveys, hydrographic surveys, ALTAs, field data input, plan and profile sheets, import/export of survey points, proposed design corridors, and volume calculations. Mr. Sorrells coordinates with field crews, drafters, engineers, and clients to generate AutoCAD C3D drawings and plan sheet sets from the beginning of a project to final stamped plans. His current and previous projects include, but not limited to:</p> <p><b>Alidore Drainage Improvements <i>Raceland, Louisiana</i></b> Mr. Sorrells prepared topographic and right-of-way drawings for the construction of a new drainage pumping station. The project involved a levee re-alignment, ditch re-grading and research into the BNSF railroad right-of-way. Site plans provided by Mr. Sorrells were used to design better drainage for the surrounding area and proved to be more economical.</p> <p><b>Gray Campus Development - CIS <i>Gray, Louisiana</i></b> Mr. Sorrells prepared the design plans for the construction of a Cardiovascular Institute of the South, Terrebonne Parish. The plans included new site plan, pavement plan, drainage and grading plan, sewer and water plans and utility plan. Also included in the plans were the topographic survey and a new retention pond design. Mr. Sorrells coordinated with the project engineer and sub-contractors to conform and finalize the plans.</p> <p><b>Silverleaf Flood Control Project <i>Gonzales, Louisiana</i></b></p>

## **TEC Professional Services Questionnaire**

Mr. Sorrells prepared Aerial maps showing drainage, flooding and resolutions in the area of Silverleaf located in Ascension Parish, Louisiana. He provided a land use map, flood boundary map and a drainage area map for this project.

### **Sorrento Flood Control Project *Sorrento, Louisiana***

Mr. Sorrells prepared Aerial maps showing drainage, flooding and resolutions in the area of the town of Sorrento located in Ascension Parish, Louisiana. He provided a land use map, flood boundary map and a drainage area map for this project.

### **Russell Street Pump Station *River Ridge, Louisiana***

Mr. Sorrells prepared proposed location of a new pump station to be installed by Ralph J. Bunche Elementary School (Russell St. Pump Station) in Jefferson Parish, Louisiana. These plans included an overall site plan, plan view and a typical section. Coordination with the project engineer to properly show the existing utilities, railroad and rights-of-way was very important in this project.

### **Lake Lery Marsh Creation and Rim Restoration Project Phase III *St. Bernard Parish, Louisiana***

Mr. Sorrells prepared the Lake Lery project area and vicinity map showing access to the lake through Bayou Lery. The project required soil boring tests, which Mr. Sorrells created an in-depth plan of access, location map and a location table with coordinates. Typical boring details were created for the marsh area and the borrow area to show the depths and limits.

### **Lake Trail Drive Drainage Improvements *Kenner, Louisiana***

Mr. Sorrells prepared the topographic and right-of-way drawings for Lake Trail Drive, from its intersection with the northern right-of-way of Bruin Drive, north to the southern right-of-way of West Esplanade Avenue; approx. 2880 LF. The drawings included elevation shots of Lake Trail Drive, right-of-way to right-of-way for the creation of cross sections every 50'. He also created a 3D surface, a centerline profile, and underground utility profiles for this project.

### **Westgate Drainage *Kenner, Louisiana***

Mr. Sorrells prepared the Record Drawings for this project. Although coming in late to this project Mr. Sorrells developed the record drawings for this project by coordinating with the project engineer, inspectors, and sub-contractors. Ensuring that the record drawings incorporated all as-built conditions of this project.

### **Lake Cataouatche Pump Station Topographic Survey *Jefferson Parish, Louisiana***

Mr. Sorrells prepared the plan and profile sheets and cross sections from the topographic survey at the site of the current Lake Cataouatche pump station located on Churchill Farms. The survey area adjacent to the existing pump station will be the site for a new pump station under design. The survey included cross sections of the site and the adjacent canal along with the location of improvements in the project area.

### **South Kenner Avenue Rehabilitation (Between Live Oak Blvd. and Chenevert Rd.) *Jefferson Parish, Louisiana***

Mr. Sorrells provided drafting support for this project, including plan sheets, cross sections, and existing subsurface pipe networks. Showing the existing roadway and existing sidewalk, which were to be developed in a wider and improved asphalt roadway with new sidewalks and subsurface drainage. This project conformed to the Jefferson Parish criteria.

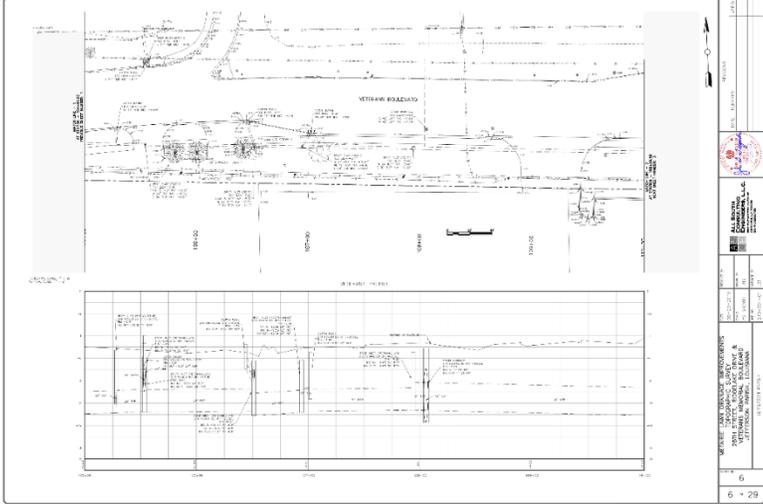
**TEC Professional Services Questionnaire**

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

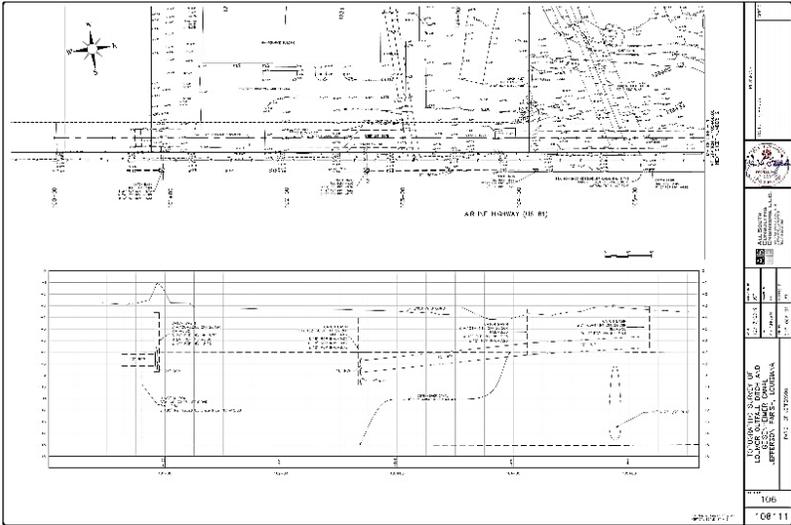
**PROJECT NO. 1**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Tudor and Tallulah Drainage Improvements,</b> <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government Neil Schneider, Capital Projects 1221 Elmwood Park Blvd. Jefferson, Louisiana 70123 (504) 736-6500</p> 	<p>All South was selected by Jefferson Parish to analyze the drainage requirements in this project area. The goal of this analysis is to provide a master plan that will result in no street flooding due to the 10-yr, 24-hr rainfall event. This report includes the study results, drainage recommendations and cost estimate with recommended phasing.</p> <p>The Tudor and Tallulah project area is located in River Ridge, Louisiana and includes Caroline Street, Tudor Avenue, Tallulah Avenue, Russell Street, Stephen Drive and South Lester Avenue from the Mississippi River to Canal #6 and from Florida Avenue to Soniat Canal. This area is located in Jefferson Parish and regularly experiences significant street flooding within the project area.</p> <p>All South performed a hydrologic and hydraulic analysis on each drainage area to examine the existing drainage patterns. Existing topography, culvert sizes and slopes were used to determine the adequacy of the existing system. A 10-year storm event with a rainfall of 7.8 inches in a 24-hour period was used to analyze each system. Peak flows were determined using the EPA SWMM method. Using the same design storm and criteria, an analysis of the required drainage capacity was also performed to help identify improvements.</p> <p>All South provided the study and recommendations with cost analysis to improve the systems. As a result of this report, All South was tasked with the permitting, design and construction management of increased capacity collection system, new pumping station, and out fall system. Collection system improvements include the removal 1,000 feet of 54" reinforced concrete pipe and installation of new 72" RC P. This process involves the relocation of several utilities and the design of concrete conflict box. This 72" RCP will be installed within a 96" steel Pipe jack and bored under an existing CN Railroad track. As part of the permit, All South will design a cofferdam system for approval by CN Railroad. The new pumping station will have a 165 CFS capacity, generated with three vertical mixed flow pumps with controls. The out fall will consist of 36" steel pipes out falling into an existing drainage canal. The existing drainage canal will be outfitted with new concrete headwalls and bottom slab to prevent erosion.</p> <p>As part of this project All South's survey crews collected data on existing drainage structures along the CN Railroad right of way.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
07/2017	\$260,000	Survey Fee: \$60,000

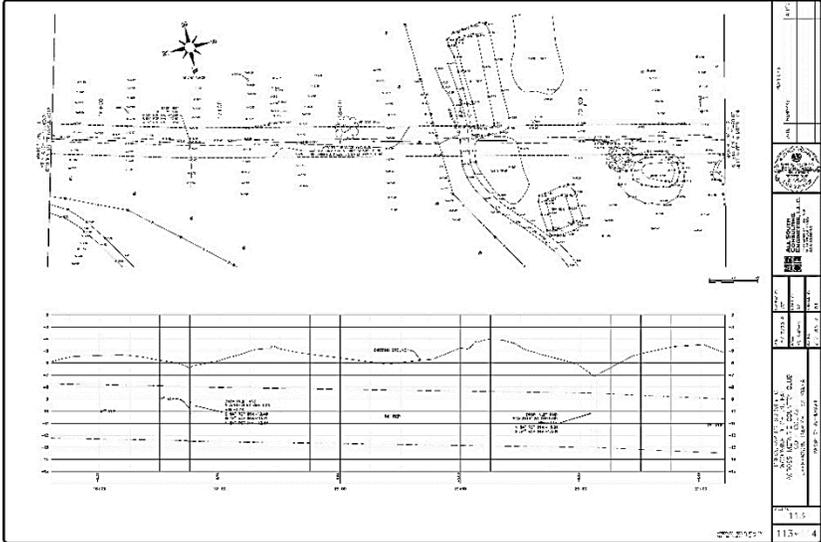
## TEC Professional Services Questionnaire

<b>PROJECT NO. 2</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Metairie Lawn Drainage Improvements</b> <i>Jefferson Parish, Louisiana</i></p> <p>Mr. Neil Schneider, P.E. Director of Capital Projects 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p>	<p>All South provided a topographic survey of 26th Street from Metairie Lawn Avenue to Ridgelake Drive, Ridgelake Drive from 26th Street to Veterans Boulevard and on Veterans Boulevard from Ridgelake Drive to a point approximately 1000 feet east of Ridgelake Drive for the design of drainage improvements. Boundary evidence was also collected to show the existing rights of way for each street.</p> <div style="text-align: right;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
05/2019	N/A	Survey Fee: \$19,000

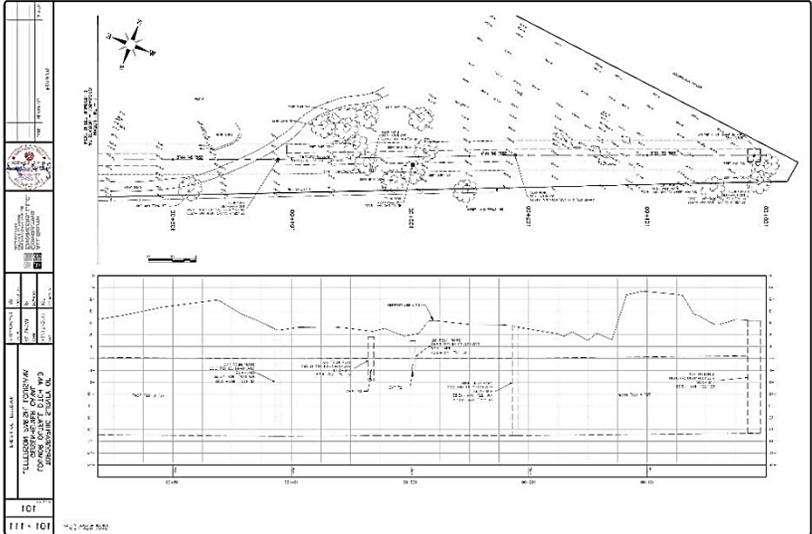
## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Geisenheimer Canal Topographic Survey</b>  <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government            Mr. Neil Schneider, P.E.            Director of Capital Projects            1221 Elmwood Park Blvd            Jefferson, Louisiana 70123            (504)736-6753</p>	<p>This survey was prepared to provide the field data necessary to design drainage improvements for the Geisenheimer Canal which flows to Hoey's Canal and from there to 17<sup>th</sup> Street Canal and Lake Pontchartrain.</p> <p>In order to accomplish this, we prepared a topographic survey of the surface area above Geisenheimer Canal from the maintenance facility for the Metairie Country Club to the tie in point at Hoey's Canal. For this route we located all surface improvements, visible signs of utilities, trees with size and species and cross sections at 50' intervals.</p> <p>We were able to locate the underground concrete box canal by accessing it through an access cover where we set a control point in the bottom of the box, we then located the sides and roof and the tie in point for the concrete arch pipe outfall for the Loumor Ditch. From a drop inlet cover near the Woodvine Ditch outfall we located the outfall and determined the invert. This was verified by probing the outfall pipe at the edge of the box. At Hoey's Canal we probed the top of the Geisenheimer Canal box and the Hoey's Canal box to determine the point of intersection.</p> <p>The deliverable for this survey were plan and profile drawings of Geisenheimer Canal which were included in a master set with Loumor</p> <div style="text-align: center;">  <p style="text-align: center;">Ditch and Woodvine Ditch.</p> </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
02/2020	N/A	Survey Fee: \$25,920

## TEC Professional Services Questionnaire

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Woodvine Ditch Topographic Survey</b>  <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government                      Mr. Neil Schneider, P.E.                      Director of Capital Projects                      1221 Elmwood Park Blvd                      Jefferson, Louisiana 70123                      (504)736-6753</p>	<p>This survey is for drainage improvements to the Woodvine Ditch beginning at the western right of way of Nassau Drive and following the drain line west-southwesterly across the parking lot that lies on the north side of the swimming pools and tennis courts to the eastern side of the golf course where the drain line turns in a southerly direction and heads south-southwest to its discharge point into Geisenheimer Canal at the north right of way of Airline Highway.</p> <p>The topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.</p> <p>Deliverables were plan and profile sheets that were included with the master set of Loumor Ditch Outfall, Geisenheimer Canal and Woodvine Ditch.</p>	
		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
02/2020	N/A	Survey Fee: \$16,720

## TEC Professional Services Questionnaire

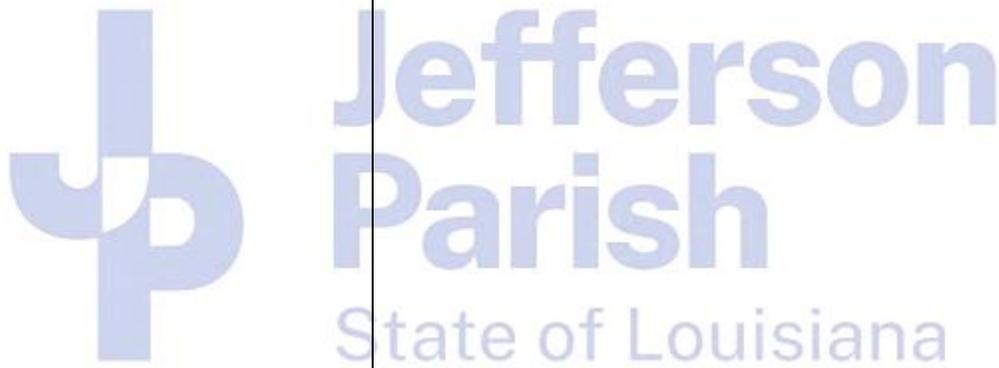
<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Loumor Outfall Ditch Topographic Survey</b>  <i>Jefferson Parish, Louisiana</i></p> <p>Mr. Neil Schneider, P.E.                      Director of Capital Projects                      1221 Elmwood Park Blvd                      Jefferson, Louisiana 70123                      (504)736-6753</p>	<p>This survey is for drainage improvements to the Loumor Outfall Ditch beginning at the southwest corner of Pontiff Playground and running southeast then turning in a south-southwesterly direction along the northern and western boundary of Metairie Club Estates Subdivision to its discharge point into Geisenheimer Canal and the north right of way of Airline Highway.</p> <p>This survey route follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, that included ties, sand traps and the raised greens that fell in the route.</p> <p>We also located the maintenance facility for the golf course, ponds and a pump house that were near the drain route.</p> <p>Deliverables for this project were plan and profile sheets that were included with the master set of Loumor Ditch Outfall, Geisenheimer Canal and Woodvine Ditch.</p>	
		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
02/2020	N/A	Survey Fee: \$19,340

# TEC Professional Services Questionnaire

<b>PROJECT NO. 6</b>					
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>				
<p style="text-align: center;"><b>Menard Road Drainage</b> <i>Terrebonne Parish, Louisiana</i></p> <p style="text-align: center;">Jeanne Bray Terrebonne Parish Consolidated Government 8026 Main Street, 7th floor, Houma, LA 70360 (985) 873-6720</p>	<p>All South provided engineering and land surveying services on this project to address drainage issues. A topographic survey was performed along the rear portion of lots fronting Menard Road and of a proposed pump station site on the property of Enterprise Marine. Drainage improvements were designed and areas where the parish would need to acquire additional right of way were identified. All South located the boundaries of the affected properties and prepared right of way maps and legal descriptions for the needed parcels.</p> <div style="text-align: center; border: 1px solid black; padding: 5px; margin: 10px 0;"> </div>				
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">Entire Project:</th> <th style="width: 50%; text-align: center;">Work for which Firm was Responsible:</th> </tr> <tr> <td style="text-align: center; vertical-align: middle;">N/A</td> <td style="text-align: center; vertical-align: middle;">Survey Fee: \$22,000</td> </tr> </table>	Entire Project:	Work for which Firm was Responsible:	N/A	Survey Fee: \$22,000
Entire Project:	Work for which Firm was Responsible:				
N/A	Survey Fee: \$22,000				
07/2018					

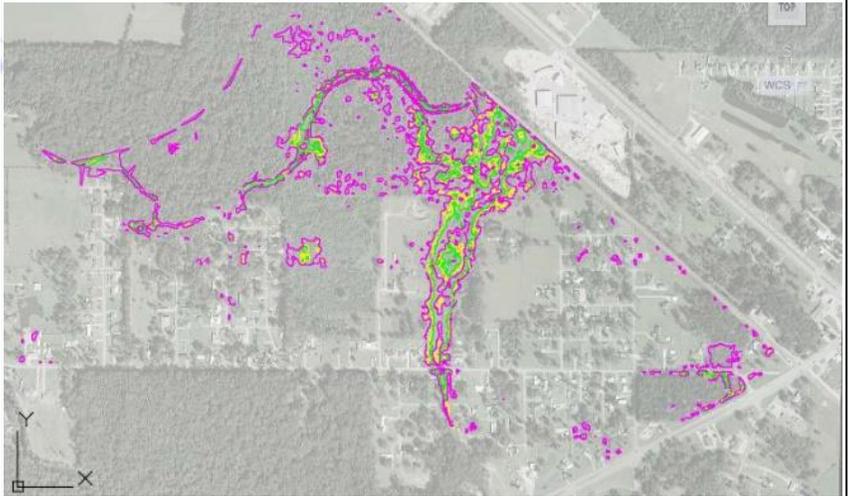
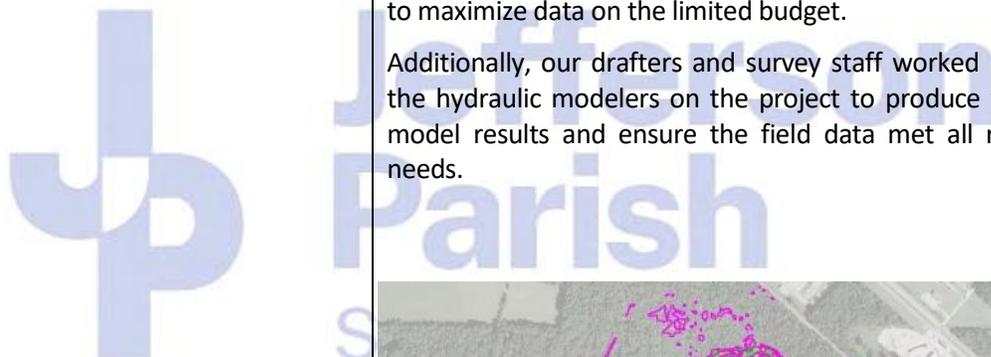
**TEC Professional Services Questionnaire**

<b>PROJECT NO. 7</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Bayou Vista Drainage Model</b>  <i>Thibodaux, Louisiana</i></p> <p>Lafourche Parish Government                      James Barnes                      Public Works Director                      P.O. Box 425                      Mathew, LA 70375                      (985) 532-8235</p>	<p>All South performed full topographic survey services including retrieving existing Lidar data From the NGS website to be combined with survey data taken in the field in order to produce a drainage model to mitigate the water pooling at the rear of the Bayou Vista Subdivision.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
02/2021	N/A	Survey Fee: \$12,000

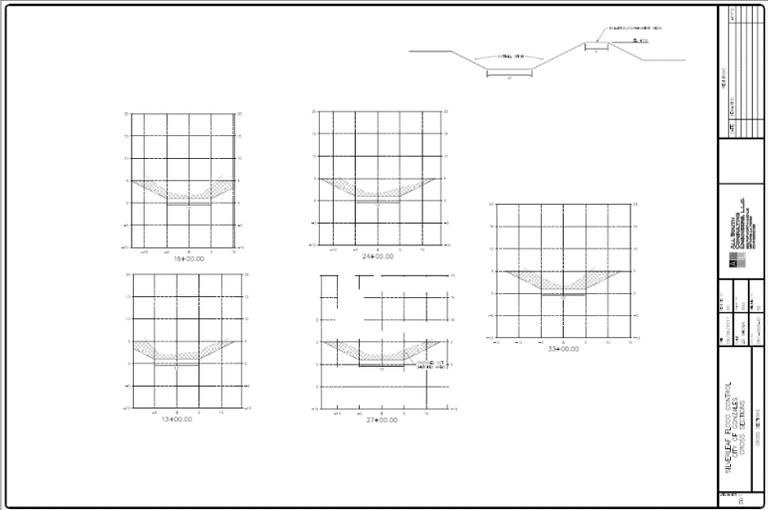


**TEC Professional Services Questionnaire**

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Sorrento Statewide Flood Control</b>  <i>Town of Sorrento, Louisiana</i></p> <p>Town of Sorrento                      Mike Lambert, Mayor                      8173 Main St.                      Sorrento, LA 70778                      (225) 675-5337</p>	<p>As part of the Sorrento State Flood Application project, All South's surveying department completed professional surveying services to support the overall grant application. The Application was based on flooding that occurs along Brittany St. during heavy rain events. As such, the All South's crews provided topographic and hydrographic survey services for the "B" drainage ditch that runs through the Town of Sorrento and carries flows to the Sorrento Pumping Station. Crews also surveyed an existing ditch that carries flows from the rear of Oak St. through an existing railroad trestle adjacent to Sorrento Lumber Company. This survey data was incorporated into models of the flows through these drainage ditches during heavy rain events and ultimately to the Sorrento Drainage Pump Station.</p> <p>The survey captured approximately 5,000 LF of drainage ditches, including culvert and headwall features included across LA Hwy 22 and along the route. Cross sections were taken approximately every 300 LF to maximize data on the limited budget.</p> <p>Additionally, our drafters and survey staff worked hand-in-hand with the hydraulic modelers on the project to produce flood maps of the model results and ensure the field data met all required modeling 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>
09/2019	\$420,000	Survey Fee: \$32,560



## 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>Silverleaf Drainage Statewide Flood Application</b>  <i>Gonzales, Louisiana</i></p> <p>City of Gonzales                      Jackie Baumann                      120 South Irma Boulevard                      Gonzales, LA 70737                      (225) 647-2841</p>	<p>The Southwood Subdivision is an existing, 135-acre development located within the City of Gonzales and the Ascension Parish 100-year floodplain. The subdivision experiences significant flooding during heavy rain events, which inundates both roadways and residences. The subdivision is designed to drain by curb and gutter and into two outfall ditches at the rear of the development. The two outfall ditches merge into a single ditch which enters into Boyle Bayou before eventually making its way into Bayou Conway. East Silverleaf Street drains from east to west via roadside ditches with culverts located under driveways, eventually discharging into one of the outfall ditches that drains Southwood. Flooding occurs when the two outfall ditches begin backing up during heavy rains, forcing water back into the Southwood Subdivision and up East Silverleaf Street.</p> <p>All South's survey crews performed all topographic surveying services for the project in support of design and modeling services for the project. Surveys included details cross sections of the outfall into Boyle Bayou, as well as of the surrounding drainage features in the Silverleaf neighborhood.</p> <div style="text-align: center;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
07/2018	\$23,500	Survey Fee: \$5,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Alidore Drainage Improvements and Statewide Flood Control</b>  <i>Lafourche Parish, Louisiana</i></p> <p>Lafourche Parish Government            James Barnes            Public Works Director            P.O. Box 425            Mathew, LA 70375            (985) 532-8235</p>	<p>The Lafourche Parish Government asked All South to develop a drainage plan to improve drainage in the Alidore community. This community, which is over 30 years old, consists of small lots, and very tight drainage and utility features.</p> <p>In order to properly plan these improvements, All South conducted a topographic survey of this area for this project. This survey included cross sections of the roadside ditches, location of drainage culverts and drop inlets, and hydrographic surveys using GPS of the main drainage canals that bordered the survey area. The survey data was used to create a model of the area to be used in sizing the pumps for a new pumping station.</p> <p><b>Surveying Services:</b></p> <ul style="list-style-type: none"> <li>• Topographic Survey</li> <li>• Hydrographic Survey</li> <li>• Courthouse Research</li> <li>• Research Courthouse Records to establish right of way for drainage, pipeline and railroads</li> <li>• Prepared Right of Way Plat for new pump station</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>
08/2015	\$3,230,645	Survey Fee: \$15,000

**TEC Professional Services Questionnaire**

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. IMC Construction	Jefferson Parish	Jefferson Parish filed 3 <sup>rd</sup> party demand to All South Consulting Engineers, LLC. Status is pending
2.		
3.		
4.		

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



**All South Consulting Engineers**

All South Consulting Engineers, LLC is a Limited Liability Corporation owned by Timothy Bonura, Jens J. Nielsen Jr., and Stephen Smith. Established in May 2004, All South was founded to provide professional engineering services to municipalities and governmental agencies, as well as private clients throughout the South. All South has since experienced tremendous growth and is proudly recognized as one of the Gulf South’s leading Surveying firms, as well.

All South’s Surveying Division has a client list that includes the following parishes, municipal and state organizations: Jefferson Parish, Plaquemines Parish, St. Bernard Parish, Orleans Parish, St. Tammany Parish, Lafourche Parish, Terrebonne Parish, East Baton Rouge Parish, Livingston Parish, Ascension Parish, Coastal Protection and Restoration Authority, City of Gretna and City of Slidell. Projects range from topographic surveys for design of new facilities and infrastructure to bathymetric surveys for coastal restoration and drainage maintenance.

**PROFESSIONAL TRAINING AND EXPERIENCE**

All South offers outstanding surveying services from leading professionals, including our Professional Land Surveyor. As Vice President and Survey Division Manager, Mr. John S. Teegarden, PLS has extensive experience in all aspects of land surveying which he has acquired over his 30-year career. All South’s substantial local experience providing Professional Land Surveying services can be found throughout the TEC Professional Services Questionnaire. Firm capabilities and services include but are not limited to the following:

- **Control Surveys** – Establish the horizontal and vertical survey info via deep rod monuments and GPS network surveys
- **Boundary/ALTA-NSPS Surveys** – ALTA-NSPS (American Land Title Association-National Society of Professional Surveyors) surveys for large property transactions

## TEC Professional Services Questionnaire

- **Topographic Surveys** – Route and corridor surveys and development site surveys
- **Elevation Surveys** – Elevation certifications and effects of subsidence over time
- **Hydrographic Surveys** – Coastal restoration, maintenance dredging, dock construction and maintenance, USACE permitting surveys, and using side scan single beam and multi-beam hydrographic profiles
- **HDS (High-Definition Survey) Laser Scanning** – High resolution point clouds to verify measurements, monitor movement of a structure, and provide a 3D model of area surveyed using 360° scans at our survey sites for this reason
- **GIS Data Acquisition** – Collect data for infrastructure inventory, complete with geocoded photographs of each item
- **Pipeline Surveying** – Collect pipe tally measurements, record heat, weld and joint numbers, record horizontal and depth of cover

### **LAND SURVEY, HYDROGRAPHIC SURVEY SERVICES:**

All South possesses the staff and capability to offer licensed surveying services, including land and hydrographic survey services. Our land survey crews have completed multiple coastal and flood protection relation projects, including all the projects listed above, through the pre-site survey, setting project control points, dredging and borrow quantity measurement, and as-built surveys.

All South is a leading provider of hydrographic surveying services. We are experienced with single-beam, multi-beam, and side-scan sonar surveys and efficiently process hydrographic data with HYPACK software. Our 26' survey vessel is outfitted with a dual-frequency echosounder to take on large hydro projects. The 6' Z-Boat remote survey boat allows us to access sites where a manned boat can't be used.

### **EQUIPMENT/ SOFTWARE:**

- GPS (Global Positioning System)
- Leica GS-14 GPS Receivers
- AutoCAD Stations Civil 3D, Microstation, InRoads, CadConform
- 26' Scully Aluminum Boat with Dual 150 h.p. motors
- 14' Aluminum Flat Boat
- 6' Z-boat, remotely operated hydrographic survey boat
- Odom Hydrographic CV100 dual frequency Echosounder
- Tritech Starfish 990F side scan sonar
- Getac X500 Laptop with Hypack Hydrographic Software
- G-882 Magnetometer
- Four-wheel off-road vehicles / marsh buggies
- Hypack – Hydrographic software
- LEICA Geo – GPS Software



### **SIZE OF FIRM**

The All South team includes 64 professionals driven to excellence and focused on our client's needs. We are made up of 11 Louisiana Licensed Professional Civil Engineers, 5 Engineering Interns, **1 Professional Land Surveyor, 1 Land Surveyor Intern, 2 Survey Party Chiefs, and 3 Survey Technicians.** Our staff also includes program managers, CADD technicians/draftsmen, grant specialist, inspectors, field monitors, survey crews, and administrative support staff, all of which provide years of experience to help ensure that our work is exceptional.

### **CAPACITY FOR TIMELY COMPLETION**

With 64 employees and ample resources, All South has more than enough capacity to meet any deadlines that the Parish requests. At All South, we understand the importance and value of time. We take pride in completing our projects ahead of schedule and would not sign an agreement to complete a project if we could not meet or exceed the schedule

## TEC Professional Services Questionnaire

designated by the owner. Our team is committed to and capable of meeting all schedules and deadlines that the Parish requests to ensure timely completion of all projects.

Additionally, we will utilize Team Gantt software for this project as a means of communication and accountability between consultants and Parish personnel. Team Gantt is an excellent project management tool designed to help create, manage, and finish projects on time and on budget. This software allows us to change start and end dates, reorder tasks, and adjust timelines seamlessly. It allows us to see every project update and document on a single page and quickly share them with both internal and external stakeholders. Team Gantt allows us to effectively manage resources, stay on budget, and ensure everyone is working but not overloaded. We can compare the original timeline projection with the actual timeline of the project with a baseline report. Parish personnel will be issued access to Team Gantt, so they can remain updated on the progress of the project at their own convenience.

### PAST PERFORMANCE

As mentioned in the above referenced project descriptions, All South has substantial local experience providing Surveying services on various projects. Aside from our technical experience, All South stands out amongst competitors because of our unrivaled devotion to our clients and ability to meet their needs.

The satisfaction expressed by our clients can be directly accredited to not only our ability to deliver exceptional work that meets all contractual, time, and budgetary obligations, but also the genuine and lasting relationships we build throughout the process. At All South, we understand the grave role we play in each project and thus, uphold the highest standard of personal and professional integrity and competence.

### LOCATION OF THE PRINCIPAL OFFICE

All South's home office is located at 652 Papworth Avenue, Metairie, Louisiana 70005.

### ADVERSARIAL LEGAL PROCEEDINGS

Please refer to section M of this TEC Questionnaire.

### PRIOR SUCCESSFUL COMPLETION

Please refer to the project descriptions listed above to see All South's prior successful completion of similar projects, as well as their respective verifiable references. All South has been working with the staff of Jefferson Parish since inception and had never received any negative comments or reviews from the staff. We have completed millions of dollars in construction of Jefferson Parish infrastructure and look forward to continuing this great relationship.

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

Signature: \_\_\_\_\_

Print Name: John S. Teegarden, PLS

Title: Vice President, Survey Division Manager

Date: March 14, 2022

## TEC Professional Services Questionnaire

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

Professional Engineering and Supplemental Services for a  
**Drainage Master Plan for the East Bank of Jefferson Parish**  
 SOQ **22-014** | Resolution No. **138896**

**B. Firm Name & Address:**



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

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

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

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

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

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

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

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

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

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

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

## TEC Professional Services Questionnaire

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

1. **N/A**

2.

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

**YES \_\_\_\_\_ NO \_\_\_\_\_ N/A**

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

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

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

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

## TEC Professional Services Questionnaire

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

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

**Name & Title:**

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

**Project Assignment:**

Registered Professional Land Surveyor

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

40 years (Founding Principal of BFM in 1982); 55 years total (1967)

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

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

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

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

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

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

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

## TEC Professional Services Questionnaire

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

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

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

- *Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue), Metairie, Jefferson Parish, LA*
- *Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA*
- *Orange Lane Drainage Pump Station Project (Drainage Mapping), Grand Isle, Jefferson Parish, LA*
- *Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA*
- *West Bank Expressway, Phase I Drainage Map, from Peters Road to Manhattan Boulevard, Jefferson Parish, LA*
- *West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA*
- *Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA*
- *Coventry Drainage Pump Stations, Jefferson Parish, LA*
- *Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA*
- *Mounes Subsurface Drainage – Phase I, Jefferson Parish, LA*
- *Jack & Bores Survey (Drainage Project), Waggaman, Jefferson Parish, LA*
- *Oakwood Terrytown Drainage Improvements (HMGP) (Carol Sue Drainage Improvements), Jefferson Parish, LA*
- *Drainage Improvements, Metairie Lawn to Labarre Drive, Jefferson Parish, LA*
- *Mary Ridge Court, Jefferson Parish, LA*
- *Bannerwood Drainage Improvements (Mt. Laurel Bridge & Oakwood Canal), Jefferson Parish, LA*
- *Orleans Village Subdivision Drainage Improvements, Jefferson Parish, LA*
- *Westgate Subdivision Subsurface Drainage Improvements, Jefferson Parish, LA*
- *Kawanee Drive Drainage Improvements, Jefferson Parish, LA*
- *Paillet – Maplewood Drainage Improvements, Jefferson Parish, LA*
- *Hoey's Canal Drainage Improvements (Deckbar Ave to Labarre Rd), Jefferson Parish, LA*
- *25th Street & Adjacent Canal, Gretna, Jefferson Parish, LA*
- *Mason Ditch Drainage Improvements, Jefferson Parish, LA*
- *Breaux Ditch Improvements, East Ames Boulevard – Leo Kenner Parkway, Jefferson Parish, LA*
- *Drainage Improvements to the Canal No. 11 Culvert Crossing West of Duncan Canal, Jefferson Parish, LA*
- *Mazoue Ditch Drainage Improvements (Rose Crest Lane to Darby Lane), Jefferson Parish, LA*
- *Ames Boulevard Drainage Pump Station Warehouse, Jefferson Parish, LA*
- *Improvements to Bayou Segnette Drainage Pump Station No. 1, Jefferson Parish, LA*
- *Cleary Avenue & West Napoleon Lift Station & Force Main, Jefferson Parish, LA*
- *Westwego Drainage Pump Station No. 1, Jefferson Parish, LA*
- *Parish Line Pump Station No. 5, Kenner, Jefferson Parish, LA*
- *Hero Pump Station, Harvey, Jefferson Parish, LA*
- *Fulton Street Pump Station, Jefferson Parish, LA*
- *Westwego Drainage Pump Station 1, Westwego, Jefferson Parish, LA*
- *Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA*
- *Taft Park Drainage Pump Station, Jefferson Parish, LA*
- *Drainage Pump Station, Veterans North & South, Right-of-Way, 17th Street Canal, Jefferson Parish, LA*
- *Drainage Pump Station, West Esplanade and 17th Street Canals, Jefferson Parish, LA*
- *Bayou Segnette Fronting Protection/New Pump Station, Westwego, Jefferson Parish, LA*
- *Morton & Ingrid Pump Station, Jefferson Parish, LA*

## TEC Professional Services Questionnaire

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

**Name & Title:**

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

**Project Assignment:**

Engineering Liaison

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

5 years (became partial owner of BFM in 2017); 29 years total (1993)

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

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

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

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

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

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

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

BFM Corporation projects overseen by Mr. Poché would include:

## TEC Professional Services Questionnaire

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

*Chad M. Poché, P.E. (continued)*

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

**Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

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

**Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.** BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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)

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

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

## TEC Professional Services Questionnaire

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

**Name & Title:**

**John Philip Thayer**  
Field Operations Supervisor

**Project Assignment:**

Field Operations Supervisor

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

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

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

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

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

*Professional Land Surveyor Registration in process, State of Louisiana*

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

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

**West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA.** BFM provided topographic surveying for the project, which encompassed Bellemeade Boulevard from Briargrove to Brookmeade and Brookmeade from Bellemeade to the Violet Canal Discharge. (\$16,108 (fee); 2010)

**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 executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)

## TEC Professional Services Questionnaire

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

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

**Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

**Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.** BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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)

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

**Louisiana Statewide Flood Control Program (Package 1 & 2 Control and Package 3), City of Kenner, LA.** BFM provided topographic surveying services for the project. Typical surveying elements included records research, establishment of baseline, Temporary Benchmarks, and shooting of elevations. BFM provided surveying for the location of improvements and utilities (sewer, water, drainage, storm, etc.), as well as natural elements in the project area. The Louisiana Statewide Flood Control Program uses state funds in the construction of flood control infrastructure to reduce (or eliminate) the incidence of flooding or damages in a specific area. (\$17,688 (fee); 2016)

## TEC Professional Services Questionnaire

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

**Name & Title:**

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

**Project Assignment:**

Registered Professional Land Surveyor; Project Manager/Drafting Supervisor

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

4 years (joined BFM in 2018); 11 years total

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

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

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

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

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

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

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

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

## TEC Professional Services Questionnaire

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

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

**Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

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

**Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.** BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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)

**West Causeway Approach Bike Path Drainage Study, City of Mandeville, St. Tammany Parish, LA.** BFM executed a Route Topographic Survey for the project area. Scope included establishing a baseline parallel to the street; establishing temporary benchmarks (TBMs) along the project baseline; locating existing improvements with the designated Limits of Survey; locating existing above-ground and underground utilities. BFM also researched available location data from controlling agencies. Cross sections were taken on a 100 ft. grid within the Limits of Survey. BFM also provided surveying services to provide a Drainage Area Map for the project. The scope of services included establishing Vertical Control and the location of existing drainage structures. (\$16,720 (fee); 2018)

**Revere Road W-3 Drainage Survey, St. Tammany Parish, LA.** BFM provided surveying services to the St. Tammany Parish Government (Survey Services Contract No. 16-104) for this Drainage Survey project on Revere Road. The scope of services included a boundary survey with notation of improvements. Extensive records research was a precursor to the execution of the field survey. BFM also provided cross sections of Bayou De Zaire and of the drainage feature with notation of natural ground features, improvements, encroachments, and easements/servitudes. Upon completion, BFM provided AutoCAD maps and parcel property descriptions to the Parish. (\$18,960 (fee); 2020)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Christopher Lemley**  
Quality Control Supervisor

**Project Assignment:**

Quality Control Supervisor

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

8 years (joined BFM in 2014); 16 years total (2006)

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

*High School Diploma*

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

N/A

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

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

**Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.** BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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)

**Drainage Improvements, Metairie Lawn to Labarre Drive, Jefferson Parish, LA.** BFM provided Surveying Services for this project located in Bayou Metairie Park. (\$9,740 (fee); 2016)

**Mounes Subsurface Drainage – Phase I, Jefferson Parish, LA.** BFM provided topographic surveying services for Phase I of the project, which extended from Dickory to Elmwood Park Boulevard). (\$26,240 (fee); 2017)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Thomas O. Wright**  
Survey Crew Chief

**Project Assignment:**

Survey Crew Chief

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

14 years (joined BFM in 2008); 45 years total (1977)

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

*High School Diploma*

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

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

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

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

**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. 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)

**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)

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

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Curtis "Jay" Barrios**  
Survey Crew Chief

**Project Assignment:**

Survey Crew Chief

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

32 years (joined BFM in 1990); 32 years total (1990)

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

*High School Diploma*

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

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

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

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

**West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA.** BFM provided topographic surveying for the project, which encompassed Bellemeade Boulevard from Briargrove to Brookmeade and Brookmeade from Bellemeade to the Violet Canal Discharge. (\$16,108 (fee); 2010)

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

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

**Woodland West Subdivision Drainage Improvements, Marrero, LA.** BFM provided a topographic survey for the design of drainage improvement. (\$8,900 (fee); 2006)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Eric Gladney**  
Survey Crew Chief

**Project Assignment:**

Survey Crew Chief

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

8 years (joined BFM in 2014); 21 years total (2001)

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

*High School Diploma*

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

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

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

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

**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)

**Drainage Improvements, Metairie Lawn to Labarre Drive, Jefferson Parish, LA.** BFM provided Surveying Services for this project located in Bayou Metairie Park. (\$9,740 (fee); 2016)

**25th Street & Adjacent Canal, Gretna, Jefferson Parish, LA.** BFM provided cross section surveying and a limited drainage survey for the project. (\$2,925 (fee); 2017)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Jeff Patin**  
Survey Crew Chief

**Project Assignment:**

Survey Crew Chief

**Name of Firm with which associated:**



**Years experience with this Firm:**

3 years (joined BFM in 2019); 23 years total (1999)

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

*High School Diploma*

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

*Transportation Work Identification Card (TWIC)*

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

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

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

**Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.** BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Anthony Watson**  
CADD Technician

**Project Assignment:**

CADD Technician

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

11 years (joined BFM in 2011); 31 years total (1992)

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

*Coursework - CAD, Avatech Solutions, Los Colinas, TX*

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

NA

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

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

**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)

**Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Shaun Clements**  
CADD Technician

**Project Assignment:**

CADD Technician

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

4 years (joined BFM in 2018); 7 years total (2015)

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

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

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

NA

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

**Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.** BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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)

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

**Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Kevin A. Roberts**  
CADD Technician

**Project Assignment:**

CADD Technician

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

4 years (joined BFM in 2018); 37 years total (1985)

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

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

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

NA

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

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

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

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

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Dawn Hoffman**  
Researcher/Archivist

**Project Assignment:**

Researcher/Archivist

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

13 years (joined BFM in 2009); 25 years total (1997)

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

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

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

NA

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

**West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA.** BFM provided topographic surveying for the project, which encompassed Bellemeade Boulevard from Briargrove to Brookmeade and Brookmeade from Bellemeade to the Violet Canal Discharge. (\$16,108 (fee); 2010)

**Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

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

## TEC Professional Services Questionnaire

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

### PROJECT NO. 1

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p><b>Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue)</b>, Metairie, Jefferson Parish, Louisiana</p> <p><b>Meyer Engineers Ltd.</b> 4937 Hearst St. Ste. B Metairie LA 70001</p> <p><b>Ana Theriot, P.E.</b>, 504-885-9892</p>	<p>BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points.</p>	
<b>Completion Date (Actual or estimated):</b>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 March	N/A	\$7,980 (fee)

### PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p><b>Lapalco Boulevard Bridge at Harvey Canal</b>, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, Louisiana</p> <p><b>Hardesty &amp; Hanover</b> 3850 N Causeway Blvd Ste 1850 Metairie LA 70002</p> <p><b>Babak Naghavi</b>, 504-962-9212 bnaghavi@hardestyhanover.com</p>	<p>BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE).</p>	
<b>Completion Date (Actual or estimated):</b>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 September	N/A	\$478,744 (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>Orange Lane Drainage Pump Station Project (Drainage Mapping)</b>, Grand Isle, Jefferson Parish, Louisiana</p> <p><b>AIMS Group, Inc.</b> 4421 Zenith Street Metairie LA 70001</p> <p><b>Lowell Pitré, P.E.</b>, 504-887-7045 ljp@aimsgroupinc.com</p>	<p>The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue. The scope includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 August	N/A	\$32,280 (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>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard)</b>, Jefferson Parish, Louisiana</p> <p><b>APTIM</b> 2424 Edenborn Avenue Suite 450 Metairie LA 70001</p> <p><b>Gene S. Gillen, P.E.</b>, 504-832-4881 info@aptim.com</p>	<p>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.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2017 December	N/A	\$23,540 (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>West Bank Expressway, Phase I Drainage Map, from Peters Road to Manhattan Boulevard</b>, Jefferson Parish, Louisiana</p> <p><b>Design Engineering</b> 3330 W Esplanade Ave Ste 205 Metairie LA 70002</p> <p><b>John Holtgreve, P.E.</b>, 504-836-2155 jholtgreve@dei-engr.com</p>	<p>BFM provided topographic surveying services for the preparation of a drainage map for the project area. The Limits of Survey extended 300 feet in each direction on Peters Road, beginning at the westernmost right-of-way (R/W) Peters Road and terminating at the eastern edge of the Manhattan Boulevard intersection with the West Bank Expressway. The survey area further extended southerly and northerly down side streets (for 150 feet from the R/W) along the West Bank Expressway. BFM provided elevation shots on the gutter line and first lane divider on the east and westbound sections of the elevated structure. Sections on the elevated structure were taken at 25-foot intervals. A digital elevation model was also prepared.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2004 September	N/A	\$155,790 (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 provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) 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>
2020 May	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>Coventry Drainage Pump Stations,</b> Jefferson Parish, Louisiana</p> <p><b>ECM Consultants, Inc.</b> 1301 Clearview Pkwy Ste 200 Metairie LA 70001</p> <p><b>Sunina Shrestha,</b> 504-885-4080 SShrestha@ecmconsultants.com</p>	<p>BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020	N/A	\$89,780 (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>Waggaman Canal Relocation Survey (Jefferson Parish Landfill Sites),</b> Jefferson Parish, Louisiana</p> <p><b>CDMSmith</b> 1515 Poydras St Ste 1000 New Orleans LA 70112</p> <p><b>Jenny Bywater, P.E.,</b> 504-799-1168 bywaterje@cdmsmith.com</p>	<p>BFM Corporation was contracted to provide boundary, right-of-way, and topographic surveying services for the project site. Location of improvements were plotted within the designated limits of the survey; this included buildings, fences, light standards, traffic control devices, signage, structures, pavement, and other topographic features. Existing storm sewer and sanitary sewers were located using top of casing; invert elevations were provided on the survey.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2016 February	N/A	\$19,940 (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>Revere Road W-3 Drainage Survey,</b> St. Tammany Parish, Louisiana</p> <p><b>St. Tammany Parish</b> Post Office Box 628 Covington LA 70434</p> <p><b>Beverly Mathies,</b> 985-898-2520 procurement@stpgov.org</p>	<p>BFM provided surveying services to the St. Tammany Parish Government (Survey Services Contract No. 16-104) for this Drainage Survey project on Revere Road. The scope of services included a boundary survey with notation of improvements. Extensive records research was a precursor to the execution of the field survey. BFM also provided cross sections of Bayou De Zaire and of the drainage feature with notation of natural ground features, improvements, encroachments, and easements/servitudes. Upon completion, BFM provided AutoCAD maps and parcel property descriptions to the Parish.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 May	N/A	\$18,960 (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>Brewster Road Subsurface Drainage Improvements and Proposed Detention Pond,</b> St. Tammany Parish, Louisiana</p> <p><b>N-Y Associates, Inc.</b> 2750 Lake Villa Drive Metairie LA 70002</p> <p><b>Fred Mortali,</b> 419-346-6282 fmortali@n-yassociates.com</p>	<p>BFM provided multiple surveying services (including Route Topographic, Right-of-Way, Drainage Study, Property Acquisition) for the Brewster Road Subsurface Drainage Improvements and Proposed Detention Pond in St. Tammany Parish. The Limits of Survey included the area of Brewster Road between LA HWY 1077 and LA HWY 21; BFM provided Temporary Benchmarks, location of all improvements (natural and man-made) and utilities (including drainage, sewer, and water structures), and coordination with State and Local agencies. BFM took cross-sections at 100 ft. intervals and property corners along the route to determine rights-of-way.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 September	N/A	\$203,320 (fee)

## TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1.	<div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> <p style="text-align: center;"><i>BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i></p> </div>	
2.		
3.		
4.		

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

# **BFM CORPORATION, LLC**

**Professional Land & Hydrographic Surveying**

### CRITERIA 1 • PROFESSIONAL TRAINING AND RELEVANT PROJECT EXPERIENCE

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

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

Our capabilities include the following and more:

- **Topographic Surveying**
- **Drone Surveying / Photogrammic and LiDAR**
- **Bathymetric / Hydrographic Surveys**
- **Property, Boundary, and Right-of-Way Surveys**

## TEC Professional Services Questionnaire

N. continued.

- **Maps, Cross-Sections, and Data Sets**
- **3D Laser Scanning**
- **Benchmarks**
- **Construction-Related Surveying**
- **Builder's Package Surveys**
- **American Land Title Association (ALTA) Surveys**

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

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

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

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

When needed, BFM Corporation provides **bathymetric surveying** to handle any **hydrographic surveying** tasks. For large rivers and bodies of water, BFM is 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. The firm uses Hypack Software to process collected data. Further, BFM can execute multi-beam scans, side scans and magnetometer surveys upon request.

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

## TEC Professional Services Questionnaire

N. continued.

### CRITERIA 2 • CAPACITY FOR TIMELY COMPLETION OF NEWLY-ASSIGNED WORK

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

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

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

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

### CRITERIA 3 • LOCATION OF PRINCIPAL OFFICE

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

### CRITERIA 4 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

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

### CRITERIA 5 • PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

## TEC Professional Services Questionnaire

**N. continued.**

- **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)
- **Tom Schreiner**, Deputy CAO, Public Works & Capital Projects, City of Kenner (504-468-7515 | tschreiner@kenner.la.us)
- **Greg Cromer**, Mayor, City of Slidell (985-646-4333 | gcromer@cityofslidell.org)

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

### **CRITERIA 6 • 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.

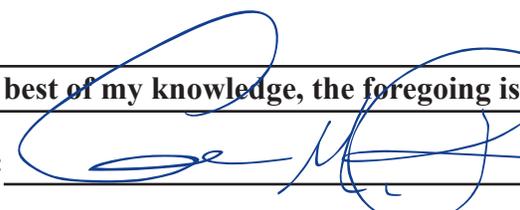
As noted in **item E of this form**, BFM currently has a **full time staff of two dozen people**, including **two Registered Professional Land Surveyors, Survey Field Crew Personnel, and AutoCAD drafting personnel**, as well as **complete administrative and support staff**.

### **CRITERIA 7 • PAST PERFORMANCE ON PARISH CONTRACTS**

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

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

**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: March 10, 2022

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

<b>Name:</b>	<b>Public Address:</b>
BFM Corporation, LLC	15 Veterans Memorial Boulevard Kenner, Louisiana 70062

**License/Certificate Information w/ Supervision**

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



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

**Mr. Ralph P. Fontcuberta Jr.**

License/Certificate Type - Number	Expiration Date
PLS.0004329	09/30/2022
Status: <b>Active</b>	



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

**Mr. Chad Mitchell Poche**

License/Certificate Type - Number	Expiration Date
PE.0027667	09/30/2022
Status: <b>Active</b>	



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

**Mr. Gary James Lambert Jr.**

License/Certificate Type - Number	Expiration Date
PLS.0005259	03/31/2023
Status: <b>Active</b>	



Division of Small and Emerging Business Development  
SEBD CERTIFICATION

### BFM CORPORATION, LLC

is hereby certified as a Small and Emerging Business Enterprise.

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

Issued at Baton Rouge, Louisiana 7/19/2019

This certification expires on: 7/19/2029

Certification No. 9551

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



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

### BFM CORPORATION, LLC

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

This certification is valid from 9/28/2021 to 9/28/2022 .

Certification No. 9551

Stephanie Hartman,  
Director, Small Business Services

## TEC Professional Services Questionnaire

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

Provide Professional Engineering and Supplemental Services for a Drainage Master Plan for the East Bank of Jefferson Parish (Resolution # 138896)

**B. Firm Name & Address:**

Bryant Hammett & Associates, LLC  
104 Dealers Avenue; Suite A  
Harahan, LA 70123



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

Bryant O. Hammett, Jr, P.E./P.L.S.  
Owner/Manager  
Office: (504) 733-8004  
Email: bhammett@bha-engineers.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.**

Hugh McCurdy, III, P.L.S.  
Professional Land Surveyor  
Office: (504) 391-2835  
Email: hmccurdy@bha-engineers.com

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

<u>3</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>1</u> Geologists	<u>0</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u>0</u> Graduate Engineers
<u>2</u> Civil Engineers	<u>0</u> Interior Designers	<u>3</u> Project Managers
<u>7</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>4</u> Clerical
<u>0</u> Ecologists	<u>9</u> Land Surveyor	<u>   </u> Grant/Funding Specialist
<u>0</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>   </u> Sanitary Engineers
<u>0</u> Engineer Intern	<u>0</u> Environmental Engineers	
<u>2</u> Professional Land Surveyors		<u>33</u> <b>TOTAL</b>

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

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

**TEC Professional Services Questionnaire**

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

1.  
NOT APPLICABLE

2.

**H. Has this JOINT-VENTURE previously worked together? Please check: NOT APPLICABLE**  
 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:**

14 \_\_\_\_\_

**TEC Professional Services Questionnaire**

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

**PROFESSIONAL IN CHARGE OF PROJECT:**

**Name & Title:**

***Bryant O. Hammett, Jr., P.E./P.L.S.  
Owner/Manager***

**Project Assignment:**

**Supervising Professional**

**Name of Firm with which associated:**



**Years’ experience with this Firm:**

**37**

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

**B.S. / 1978 / Civil Engineering**

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

**1983/Civil Engineering, LA**  
**1985/Surveyor, LA**  
**1985/Civil Engineering, MS**  
**1996/Environmental Engineering, LA**

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

Bryant O. Hammett, Jr. P.E./P.L.S. is the sole proprietor and manager of Bryant Hammett & Associates, LLC. He founded in 1984, providing engineering and land surveying services for sewer, water, gas, streets, landfill and drainage projects for public bodies, as well as for the private sector. Under Mr. Hammett’s management, BHA has expanded from a small four-member firm in Concordia Parish to operate offices in Jefferson, East Baton Rouge, Concordia, and Plaquemines parishes and currently employs over 30 individuals.

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

As infrastructure manager for the Louisiana Office of Community Development’s Disaster Recovery Unit, Hammett performed and oversaw professional civil, structural and/or transportation engineering work related to the planning, design, development, construction, and maintenance of projects funded under the LCDBG/DRU

## TEC Professional Services Questionnaire

### **QUALIFICATIONS**

- 36+ years of project and program management experience
- Dual licensee as a registered civil engineer and professional land surveyor
- Management of staff of over 30 employees

### **PROFESSIONAL MEMBERSHIPS:**

American Society of Civil Engineers  
Consulting Engineers Council of Louisiana  
Louisiana Engineering Society  
Louisiana Society of Professional Surveyors  
National Society of Professional Engineers  
National Society of Professional Surveyors  
American Council of Engineering Companies

### **YEARS OF EXPERIENCE:**

With Firm: (37)  
Total: (43)

program. Such projects included capital improvements, storm water and drainage systems, wastewater systems, potable water systems, natural gas systems, fire protection systems, roads, bridges and utility systems. He managed complex engineering programs; provided professional assistance and technical advice to state and local officials; and coordinated project development. He oversaw disbursements of more than \$178 million for infrastructure projects in the state related to Hurricanes Katrina and Rita.

### **Relevant Projects (other than those listed in Section L):**

#### Primrose Canal Cleaning and Improvements, St. Charles Parish:

BHA provided a topographic and cross section survey along the Primrose Canal from the Cousin Canal to the Blouin Canal. Topographic features were collected, as well as top banks to include the erosion area around the concrete headwalls. Additional elevation shots were collected to show the severity of the erosion.

#### HMGP Drainage Improvements to Hawks Creek/Brushy Creek Road, Vernon Parish, LA:

BHA provided professional services for drainage improvements to Hawks Road and Brushy Creek Road in Vernon Parish. Firm responsibilities included surveying of all existing drainage structures, design of drainage improvements, field staking, on-site construction supervision, preparation

of as-builts, and final inspection and testing.

#### Town of Clayton Drainage Improvements (MIP), Concordia Parish, LA:

Under the Disaster Recovery Unit of the state Office of Community Development, the scope of work for this project consisted of redesigning and modifying the water control gate within the bank of the levee, then rehabilitating the existing pumping system to prevent flooding of residential properties within this area. BHA provided all surveying, design, and support services for this project.

#### Privateer & Joan Marie Lift Station and Force Main Improvements, SCIP D4508, Jefferson Parish, LA:

BHA is providing Construction Administration, Record Drawing and Resident Inspection services for construction improvements and relocation of a sewer force main and lift station. BHA performed the topographic and boundary surveying, all permitting services, and staking for this project.

#### New River Weir Removal and Channel Improvements Ascension Parish, LA:

The East Ascension Consolidated Gravity Drainage District required the development of a hydraulic model, analyzing the flow capacity and water surface profiles for future dredging construction along approximately 3 miles of New River in Ascension Parish. BHA performed a topographic and cross section survey for a reach of New River, including surveying existing rock weirs, incoming drainage pipes, adjacent bank structures, and adjacent utilities.

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<i><b>Hugh McCurdy, III, P.L.S. Professional Land Surveyor</b></i>	
<b>Project Assignment:</b>	
<b>Survey Manager</b>	
<b>Name of Firm with which associated:</b>	
	
<b>Years' experience with this Firm:</b>	
<b>6</b>	
<b>Education: Degree(s)/Year/Specialization:</b>	
<b>Non-degreed</b>	
<b>Active registration: Year first registered/discipline:</b>	
<b>1991/Land Surveying</b>	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Mr. McCurdy is a registered land surveyor in Louisiana with over 45 years' experience in land surveying, beginning his career as a rodman in 1973. McCurdy has worked with numerous engineering firms throughout Louisiana as a Professional Land Surveyor.</p> <p>He is involved in all aspects of boundary/property surveys for real estate transfer and the surveying required for engineering, rights-of-way acquisition, and construction projects, and is responsible for courthouse research and coordination of work. McCurdy has provided surveying services for oyster leases; pre- and post-dredging; construction projects, pipelines, accident sites, and boundary establishment. He is responsible for supervision of all field crew activities, drafting, property descriptions, plats, and all surveying-related operations. Since 1978, Mr. McCurdy has worked on oyster leases for local fishermen and has exhaustively surveyed most all bays and bayous in Jefferson, Plaquemines, and St. Bernard Parishes. In the late 1970's and early 1980's, he worked on pipelines and well locations in Venice, LA and in the Barataria Basin. Hydrographic surveys include pre-dredging and post-dredging, as well as dredge volume calculations.</p> <p>Mr. McCurdy has extensive experience in all aspects of surveying, including but not limited to property boundary surveys for real estate transfer; subdivision and re-subdivision of properties; topographic and hydrographic survey for engineering and construction; and preparation of legal descriptions for attorneys. He is registered with the Courts in Orleans, Jefferson, St. Tammany, and Plaquemines Parishes.</p>	

## TEC Professional Services Questionnaire

### **Relevant Projects (other than those listed in Section L):**

#### Jefferson Parish BUDMAT Barataria Waterway, Jefferson Parish, LA:

BHA performed a topographic and bathymetric survey 181 acres of marshland of the Barataria Waterway. Elevations in the four marsh-creation and nourishment areas were taken on a 200-foot grid. Elevation information was referenced to North American Datum of 1983 (NAD83) and North American Vertical Datum of 1988 (NAVD88) with northings and easting coordinates shown as State Plane Coordinates. Pipeline information from USACE data was included in the mapping exercise.

#### Jesuit Bend Flood Protection Improvements, Plaquemines Parish, LA:

BHA provided general alignment and topographic survey and mapping services for approximately 16 miles in Plaquemines Parish from Oakville to LaReussite, to serve as the design basis for Jesuit Bend Flood Protection Improvements.

#### Lake Borgne Surge Barrier Levee Floodwall Survey, Orleans Parish, LA:

Orleans Levee District requested a survey of all the hard structures associated with the levees in the OLD, including floodwalls, surge barriers, and gates. BHA collected data on the 50 settlement markers identified by the Flood Protection Authority and 3 monoliths. Northings, Eastings, and Elevations were collected at each marker and monolith to help determine if any settlement had occurred since construction.

#### Waterline Replacement, Plaquemines Parish, LA :

BHA provided necessary surveying services for a waterline replacement project along River Road in Plaquemines Parish, from Gibbins Lane heading south to Freeport Drive, approximately 20,000 linear feet. Topographic data was collected inside the existing DOTD and PPG servitudes from the landside toe of the Mississippi River Levee to the westerly River Road Right of way, along with the areas within the Highway 23 right of way. BHA determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above.

#### Drainage Canal Relocation Project, Hurricane and Storm Damage Risk Reduction System, NOV-NFL-05: La Reussite to Myrtle Grove, Plaquemines Parish, LA:

BHA provided general alignment, topographic, and hydrographic surveys, as well as surveying and mapping of existing overhead and underground utility lines, culvert crossings, proposed disposal area and staging areas, proposed access roads and other planimetric features within the identified survey limits.; enough points were taken to show the topographic features of the entire areas including areas currently covered by water

#### Holmes Blvd Improvements, Jefferson Parish, LA:

BHA performed a topographic survey of ~8,000 linear feet along Holmes Blvd from Terry Parkway to Behrman Hwy. Services included: Locating trees, pavement types, water meters, sewer clean-outs, fences, manholes, drainage structures, gas meters, traffic signals, and all other visible topographic features. Establishing apparent property lines. Plotting existing utilities from record drawings. Setting permanent benchmarks. Establishing a baseline. Collect cross section data at 50' intervals.

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b><i>Jeff Carey, C.F.M. Survey Technician</i></b>
<b>Project Assignment:</b>
<b>Survey Technician/Field Manager</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>10</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>B.S. / 2009 / Disaster Management</b>
<b>Active registration: Year first registered/discipline:</b>
<b>2010/ASFPM Certified Floodplain Manager US-10-05305</b> <b>2018/ATSSA Traffic Control Supervisor, Technician &amp; Flagger</b> <b>2012/Contractors License: Residential Construction</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>As a survey technician for Bryant Hammett &amp; Associates, Mr. Carey manages field work, collects data in the field and performs field-checking duties at project completion. He manages boundary and topographic surveys and all surveying activity required for engineering, rights-of-way, and construction projects. He is involved in all aspects of land surveying projects, including land descriptions and elevation certificates.</p> <p>He has managed several projects from project execution to completion on numerous pipeline construction projects, roadway projects, levee construction projects, property boundary surveys, cadastral surveys, topographic surveys, differential GPS real time hydrographic surveys, GPS static surveys for horizontal and vertical control, planimetric surveys, elevation surveys and subdivision layout. Mr. Carey is responsible for maintaining communication with field and office personnel to determine potential job issues, serves as a client liaison, reports on project status and cost reporting, and manages the day-to-day scheduling of survey work.</p> <p>Mr. Carey is actively sitting for the P.L.S. exam this year.</p> <p>In previous roles with BHA, Mr. Carey served as a HMGP Program Coordinator. He was the field activity team lead for the construction monitoring of Jefferson Parish HMGP and SRL and Orleans SRL contracts.</p>

## TEC Professional Services Questionnaire

### **Relevant Projects (other than those listed in Section L):**

#### City of Gretna Downtown Drainage Improvements, Jefferson Parish, LA:

As part of an overall infrastructure initiative, the City of Gretna engaged professionals to design and engineer a layered green and grey storm water infrastructure project within the City of Gretna's downtown area. The drainage work is to help mitigate severe street flooding during hard rains. Carey managed the topographic and right-of-way surveying within the City of Gretna's downtown area.

#### Brewster Road Drainage Study, St. Tammany Parish, LA:

Carey managed the field work, data collection and final QAQC for the topographical survey of Brewster Road for a drainage study to be conducted by the Parish. Crews performed a full topographical survey of the roadway, as well as providing GPS locations and elevations, length, type of structure, and slope of drainage structures of boundary structures along the roadway.

#### Engineers Road/Cazalard Road Drainage Improvements, Plaquemines Parish, LA:

Carey managed the data collection, field crews, and final deliverable for a full topographical, utility, and cross section survey for drainage improvements along Cazalard Road. Proposed improvements included re-grading drainage ditches, cleaning of drain pipes/culverts, removal and replacement of drain pipes/culverts and sheet pile retaining wall, installation of drain inlets and a weir structure, construction of a new drainage pump station and discharge pipe, and installation of pump, hydraulic piping and power unit.

#### Certification and Accreditation of Marvin Braud Pump Station and Laurel Ridge Levee Systems, Ascension Parish,

##### LA:

The parish-built levee system was accredited by FEMA as providing protection from a 100-year flooding event; accreditation meant reduced flood insurance premiums for parts of the parish. BHA surveyed over 10 miles of levee in Ascension Parish providing general alignment, topographic, and hydrographic surveys. Surveying services included: freeboard calculations, topographic surveys of all drainage structures in the parish, hydrographic surveys of parish canals and bayous, levee cross sections and alignment surveys, as well as certified as-built plans, and establishing temporary benchmarks

#### Sims Creek/The Haven Subdivision Drainage Analysis, Tangipahoa Parish, LA:

In support of a drainage analysis project, BHA surveyed approximately 100 culverts in the subdivision to obtain invert and size data; along the streets, typical cross sections were collected at the drainage ditches.

#### E. Rutland Street Drainage Improvements Project; St. Tammany Parish, LA:

BHA provided surveying for a drainage improvements project on E. Rutland Street including the intersections of Massachusetts Street, Jahncke Street and Vermont Street. Topographic features were collected and included items such as culverts, drains, inlets, pavements, bushes, trees, perimeter outlines of heavily wooded areas, vegetation, utility poles, fences, curbs, and driveways. Manhole inverts for drainage and sewerage lines were obtained in the field for profile information.

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	<b><i>Paul Schiele</i></b> <b><i>Computer Aided Design and Drafting</i></b>
<b>Project Assignment:</b>	<b>Drafting / CADD Technician</b>
<b>Name of Firm with which associated:</b>	
<b>Years' experience with this Firm:</b>	<b>14</b>
<b>Education: Degree(s)/Year/Specialization:</b>	<b>B.Arch / 2008/ Architecture</b>
<b>Active registration: Year first registered/discipline:</b>	<b>NA</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>	<p>Paul Schiele provides computer-aided drafting and design for all survey projects, including: drainage projects; state highway, road, and bridge projects; levee surveys; hydrographic and topographic surveys; rights-of-ways maps; accident investigation layouts; crime scene layouts; and survey plats.</p> <p>Schiele is trained in use of AutoCAD, Intellicad, and Carlson computer drafting software. Mr. Schiele has served as a civil draftsman and CADD technician at BHA since graduating college in 2008. He prepares topographic drawings and maps used in major construction projects such has highways, buildings, bridges, pipelines, flood control structures, roadways, and water and sewerage systems. He provides right-of-way plats, topographic drawings (including horizontal and vertical control) and design services. Has been involved in the computer drafting of several subdivisions, sanitary sewer systems and street and drainage projects for the private sector.</p> <p>Mr. Schiele has significant experience in drafting required for drainage and flood control projects, as well as experience in drafting required for coastal restoration and creation projects</p>

## TEC Professional Services Questionnaire

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

**Name & Title:**

***Keith Capdepon, P.E.***  
***Chief Engineer***

**Project Assignment:**

**Supervising Professional**

**Name of Firm with which associated:**

**BRYANT HAMMETT  
& ASSOCIATES, LLC**  
CIVIL ENGINEERING & LAND SURVEYING

**Years' experience with this Firm:**

**24**

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

**B.S./1980/Civil Engineering**

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

**1984/Civil Engineering, LA**

**1985/Contractors License: Building Construction, Heavy Construction, Highway, Street & Bridge  
Construction, Municipal and Public Works, Construction**

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

Mr. Capdepon is a Registered Professional Engineer in the State of Louisiana and has been practicing for over 30 years, working for BHA since 1998. He has owned a construction company licensed in heavy construction, highway, street and bridge construction, utilities. and public works construction.

Mr. Capdepon has significant experience with various engineering projects including drainage and street, landfills, municipal water transmission, detention/retention pond design, distribution and treatment and wastewater collection and treatment. He has designed various engineering projects including new road construction and road re-construction and highway reconstruction for the LADOTD; subsurface drainage and flood control projects for several municipalities; municipal water transmission including ground storage and elevated storage tanks; distribution and treatment for ground water and surface water; and wastewater collection and treatment. Capdepon has designed subdivision developments including streets, all utilities (gas, water, and sewerage), subsurface drainage, and has engineered site and grading plans for hospitals.

Mr. Capdepon specializes in managing large-scale projects from inception to project closeout, responsible for the overall design, execution, and coordination of complex projects. He develops cost estimates, reviews plans and specifications, approves change orders, and manages the construction management of design projects.

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b><i>Melonie Ellzey, C.F.M.</i></b> <b><i>Hazard Mitigation Program Manager</i></b>
<b>Project Assignment:</b>
<b>Certified Floodplain Manager</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>2</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Non-degree</b>
<b>Active registration: Year first registered/discipline:</b>
<b>2013/ASFPM Certified Floodplain Manager US-13-07337</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Melonie Ellzey is a Certified Floodplain Manager (CFM) with 10 years of experience in Program Management &amp; Project Implementation.</p> <p>Previous mitigation experience includes the development, implementation, supervision, and management of HMA programs for GOHSEP and the private sector. Mrs. Ellzey is proficient in the most recent FEMA BCA toolkit, RISK Map 6, FEMA Mitigation eGrants, the Flood Map Service Center, and the LouisianaHM Web site</p> <p>Ellzey currently manages Jefferson Parish's 2015, 2016, 2017, 2018, 2019 HMGP &amp; Hazard Mitigation Assistance Grant Funding-Construction Supervision Services. This home elevation program provides construction supervision services for elevation and reconstruction grants in the cities of Kenner, Gretna, Harahan, Westwego, Grand Isle, Jean Lafitte, Metairie, Marrero, New Orleans, River Ridge, Harvey, and Barataria.</p>

**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>PROJECT NO. 1</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Bainbridge Canal Closure and Roadway Improvements</b>  <b>PW Project 2020-009-RBP</b>  <b>Jefferson Parish, LA</b></p> <p><b>Jefferson Parish Government</b>  <b>Neil Schneider, P.E.</b>  <b>Capital Projects</b>  <b>1221 Elmwood Park Blvd., Suite 906</b>  <b>Jefferson, LA 70123</b>  <b>NSchneider@jeffparish.net</b>  <b>(504) 736-6833</b></p>	<p>BHA performed a topographic, cross-section, and utility survey an area along the westbound lanes of Veterans Blvd. from Virginia to Bainbridge (not eastbound lanes), then continuing down Bainbridge to the entrance to the Airport, as well as the canal along Bainbridge Avenue.</p> <p>BHA established horizontal and vertical reference points for the project.</p> <p>BHA collected topographic features such as culverts, drains, inlets, pavements, trees, utility poles, curbs, heavily wooded areas, vegetation, property lines, driveways.</p> <p>Cross sections were taken along the route and included shots across the drainage canal: top bank, toe of canal, centerline, water elevation, width of canal. The topographic survey extended 100 feet down all intersecting streets from the apparent right-of-way on Bainbridge.</p> <p>All utility features were collected, such as valves, hydrants, meters, utility poles, utility boxes, etc. Manhole inverts for drainage and sewerage lines were obtained in the field for profile information. Apparent right-of-way information was shown.</p>	
		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2021	\$24MM	\$41,000

**PROJECT NO. 2**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>
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**St. Bernard Master Drainage Assessment**  
**St. Bernard Parish, LA**

**St. Bernard Parish Government**  
**Matthew Falati, P.E.**  
**Public Works**  
**1125 E. St. Bernard Hwy**  
**Chalmette, LA 70043**  
**Mfalati@sbpg.net**  
**(504) 278-4300**

BHA performed complete topographic surveys throughout St. Bernard Parish to aid in the update to the Parish's Master Drainage Plan. For approximately 60 miles of canals, BHA performed the following services:

- Cross sections every 500'-including shots at the invert, toe of slope, top of bank, & 25' from top of bank
- Measuring major culverts contributing to canals 60' in diameter or larger-pipe type, size, invert
- Locate major utility canal crossings-utilizing utility data provided (utility data that would not affect drainage capacity unneeded)
- Utilize drone technology to collect adjacent street elevations and other applicable data (minimum 3 elevations per adjacent street)
- Collect current LiDAR data to develop 1-foot contour lines
- Supplement LiDAR elevation data with conventionally collected elevation shots to create 1-foot contours

A plan/profile drawing was developed to show the topographic features surveyed in the field. The plan view showed the survey area, the relevant topographic features therein and the elevation data. The profile view showed drainage structures, utility information, and profile elevations. Survey data was compatible with input into SWMM computer models.



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	<b>Estimated Cost:</b>	
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<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

2017	unknown	\$250,000
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**PROJECT NO. 3**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Crown Point Drainage Improvement Project</b>  <b>Jefferson Parish, LA</b></p> <p><b>Lafitte Area Independent Levee District</b>  <b>David Dupre, P.E. (MEL)</b>  <b>4937 Hearst St; Ste 1B</b>  <b>Metairie, LA 70001</b>  <b>ddupre@meyer-e-l.com</b>  <b>(504) 231-2869</b></p>	<p>This project consisted of designing pumps stations and drainage improvements in the Crown Point area and vicinity. Design was completed for a 10-year storm event in accordance with Jefferson Parish Standards, and the drainage was tied into the existing drainage system.</p> <p>BHA completed a topographic, utility, and cross section survey in five different areas: Glisson Park Pump Station; Sharpe Road Pump Station; North Sharpe Road Drainage; South Sharpe Road Drainage; and Southwest Pump Station and Southwest Drainage Area.</p> <p>For each of the pump stations (150 X 300' each), topographic features were collected, including culverts, drains, ditches, pavements, trees, curbs, etc. Cross sections were collected at 50-ft intervals extending to the center of Bayou Barataria.</p> <p>For the North Sharpe Road Drainage area (~ 2450') and the South Sharpe Road Drainage area (~3200'), BHA surveyed along North Sharpe Rd from Shady Park to proposed Glisson Pump Station and along South Sharpe Rd. to the proposed Glisson Pump Station location and the proposed South Sharpe Pump Station location. The survey extended across North Sharpe Rd. from apparent right of way to apparent right of way, including the roadside ditches, all culverts, drains, etc. Cross sections were collected at 100-foot intervals.</p> <p>For the Southwest Pump Station and Drainage Area, BHA surveyed an area approximately 150'x300' for the proposed pump station location. The length of the drainage survey is approx. 1300'. Topographic features were collected and included items such as culverts, drains, ditches, pavements, bushes, trees, perimeter outlines of heavily wooded areas, utility poles, fences, curbs, and driveways. Cross sections were collected at the pump station location on 50-foot intervals. Cross sections extended into the center of Bayou Barataria at the pump station site. Cross sections for the drainage survey area were collected at 100-foot intervals.</p>	
<p><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">2021</p>	<p align="center">unknown</p>	<p align="center">\$49,100</p>

**PROJECT NO. 4**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>
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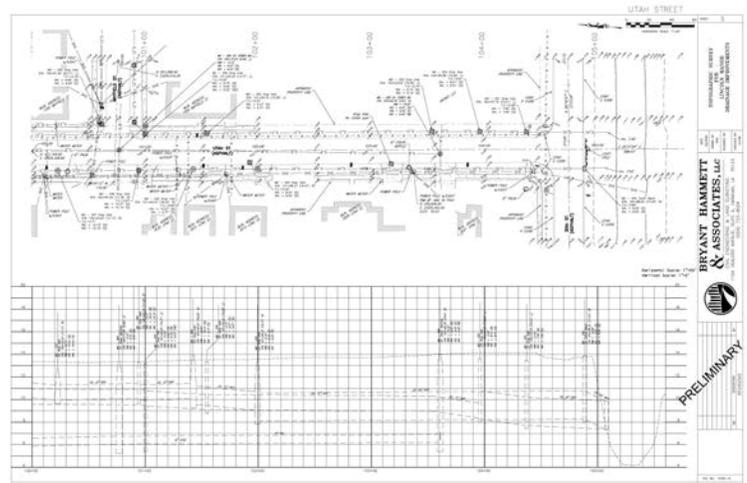
**Lincoln Manor Drainage Improvements Project**  
**Jefferson Parish, LA**

**City of Kenner**  
**Jim Wilson, P.E. (MSMM)**  
**4640 South Carrollton Ave; Ste 2200**  
**New Orleans, LA 70119**  
**Jwilson@msmmeng.com**  
**(504) 509-7706**

BHA provided surveying services for a two-phase drainage improvement project in Jefferson Parish in the Lincoln Manor subdivision. The initial survey extended from Canal #13 to the North, approximately 400 feet on the following streets: Tifton, Ohio, Utah, and Dawson, with limits extending from R/W to R/W on each street. The survey also extended 50 feet down the intersections of Mayfield and 30th Street. The second phase included 3112 Tifton Street and 3112 Helena Ave. approximately 500 feet North to the drainage canal along 32<sup>nd</sup> Street.

BHA established control points and benchmarks; collected topographic features such as culverts, drains, inlets, pavements, bushes, trees, perimeter outlines of heavily wooded areas, vegetation, utility poles, overhead electric, fences, curbs, driveways, etc. Cross-sections were collected every 50-feet.

Utilities such as valves, hydrants, meters, utility poles, utility boxes, overhead electric lines, communication systems were collected. Inverts for drainage and sewerage lines were collected in the field. The type, size, and invert of the outfall pipes draining into Canal #13 were identified on the survey.



<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

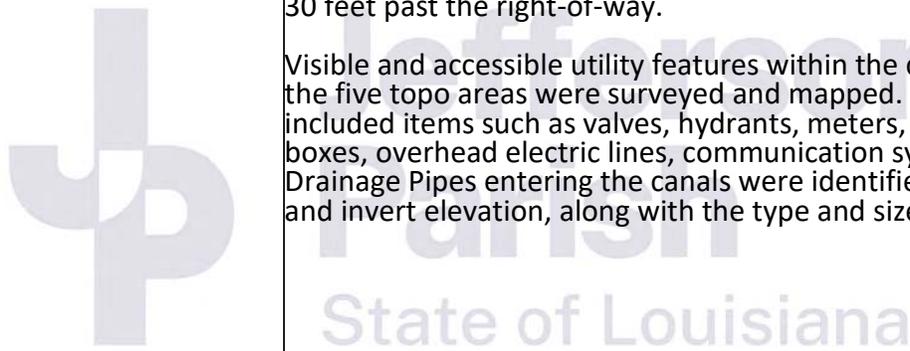
2022	Unknown	\$25,400
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**PROJECT NO. 5**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Louisiana Watershed Initiative Modeling-Region 2 Several LA Parishes LADOTD IDIQ #4400017068</b></p> <p><b>LADOTD Jie Gu, PE Public Works &amp; Water Resources East Wing 5<sup>th</sup> Floor, N526B Baton Rouge, LA 70804 <a href="mailto:jie.gu2@la.gov">jie.gu2@la.gov</a> (225) 379-1483</b></p>	<p>BHA serves as the surveyor for the Louisiana Watershed Initiative (SWI) Modeling Contract for Region 2. In 2016, historic flooding throughout Louisiana exposed deficiencies in the state's approach to floodplain management at all levels of government, prompting a reassessment of how Louisiana prepares for increasing flood events.</p> <p>In 2018, a new watershed-based approach to reducing flood risk in Louisiana was introduced to reform the state's approach to flood mitigation. Louisiana received a \$1.2 billion flood mitigation grant, some of which is being split between 7 different watershed regions to develop scientific models of major watersheds throughout Louisiana.</p> <p>BHA is part of the team will implement modeling in Region 2, consisting of 10 parishes in North Louisiana. The first task assigned was gather existing survey data in the areas, including existing channel surveys, engineering drawings, proposed design plans, and other data, as well developing overall budgets and methodologies for data collection for the region.</p> <p>Current tasks include topographic and bathymetric survey data collection for the following channels to be incorporated into the model terrain. Bayou Batholomew, Bayou DeLoutre, Bayou Darbonne, Lower Ouachita, Castor Bayou, Dugdemona River, Little River, and Lower Red River.</p> <p>For over 433 miles of channels in Region 2, channel cross sections will be collected at slope breaks including the channel invert, centerline, low-flow toe and bank, and main channel bank while also collecting the overall shape and geo-photos.</p> <p>For over 480 structures (bridges and culverts), up and down-stream cross section will be collected, as well as the road profile, inverts and mudline elevations, size, material, condition, headwall type, and geo-photos.</p> <p>All collected data will be incorporated in the overall hydrologic model system to develop a common understanding of known flood risks, vulnerabilities, and priorities throughout the region.</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 (E)	\$20 MM	\$665,000

**PROJECT NO. 6**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Ormond Oaks Drainage Project</b>  <b>St. Charles Parish, LA</b></p> <p><b>St. Charles Parish Department of Public Works</b></p> <p><b>Michael Palamone, CAO</b>  <b>100 River Oaks Drive</b>  <b>Destrehan, LA 70047</b>  <b>mpalamone@stcharlesgov.net</b>  <b>(985) 783-5000</b></p>	<p>As part of St. Charles Parish's overall drainage improvement initiative, BHA provided professional surveying services along several canals throughout the Parish. BHA provided topographic, utility, and cross section surveys along the following canals: Canal A, Carriage Canal and Dunleith Canal, Carriage Canal and Houmas Canal, as well as at five specific locations outside the r/w.</p> <p>Control points were established throughout the project to provide horizontal and vertical reference points.</p> <p>Topographic features that were visible and accessible were identified within the survey limits in order to identify the northing, easting and elevation value for each data point. Topographic features included items such as culverts, drains, inlets, pavements, bushes, trees, perimeter outlines of heavily wooded areas, vegetation, utility poles, overhead electric, fences, curbs, driveways, etc.</p> <p>Cross sections were collected on 50-foot intervals along the survey route and extended from right-of-way to right-of-way. In areas where there are no fences along the right of way, the cross section extended 30 feet past the right-of-way.</p> <p>Visible and accessible utility features within the canal right-of-way and the five topo areas were surveyed and mapped. These features included items such as valves, hydrants, meters, utility poles, utility boxes, overhead electric lines, communication systems, etc. Any Drainage Pipes entering the canals were identified with a top of pipe and invert elevation, along with the type and size of the pipe.</p>	
<p><b>Completion Date (Actual or estimated):</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020	unknown	\$40,000



**PROJECT NO. 7**

<p><b>Project Name, Location and Owner's contact information:</b></p>	<p><b>Nature of Firm's Responsibility:</b></p>
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**Channel Cross Sections in Support of LAMP H&H Analysis of Marvin Braud Levee System  
Ascension Parish, LA**

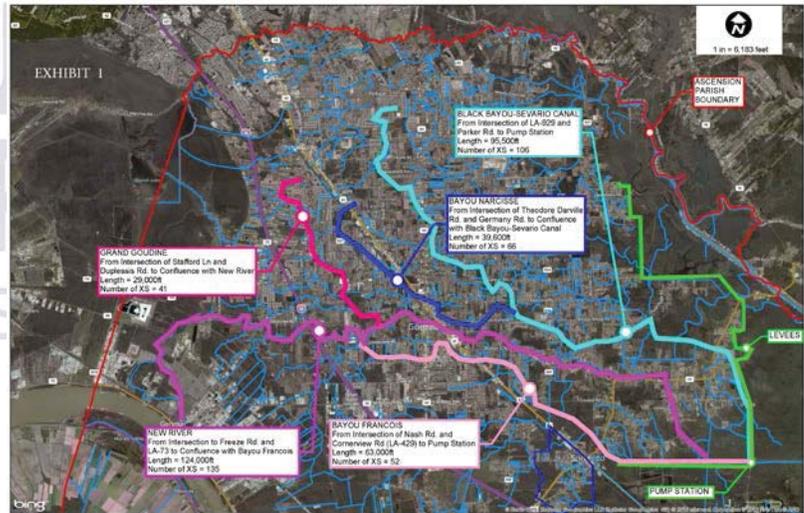
**East Ascension Consolidated Gravity Drainage District 1  
Ron Savoy  
615 E. Worthy St.  
Gonzales, LA 70737  
Ron.savoy@apgov.us  
(225) 450-1335**

As part of an overall H&H Study of the Marvin Braud Levee System in Ascension Parish to determine potential updated base flood elevations and the level of protection afforded by the existing levee system, BHA collected over 400 channel cross sections.

Cross sections were taken for over 351,000 linear feet of canals throughout the Parish along Grand Goudine, Black Bayou-Severio Canal, Bayou Narcisse, New River and Bayou Francois.

Every 1000 feet, cross sections were taken, from top-of-bank to top-of-bank, with a minimum of nine points, three at the bottom and three points for each side slope. Every 25<sup>th</sup> cross section was extended a minimum of 100 feet on each of the channel bank every 20-foot interval. Collected data was compared to existing LiDAR data.

A comprehensive survey report describing equipment and methodologies used in the survey, permanent benchmarks, additional control, survey accuracy, and data processing methodology was completed.



Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	unknown	\$123,230

**PROJECT NO. 8**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Ridgelake Drive Drainage Improvements Jefferson Parish, LA</b></p> <p><b>Jefferson Parish Government Neil Schneider, P.E. Capital Projects 1221 Elmwood Park Blvd., Suite 906 Jefferson, LA 70123 NSchneider@jeffparish.net (504) 736-6833</b></p>	<p>BHA provided a topographic, cross section, and utility survey for the Ridgelake Drive Drainage Improvements Project, located in Metairie, Louisiana. The length of the project along Ridgelake Drive is approximately 1,660 feet. Additionally, the survey extended 50 feet past the north and south ends of the project, and 50 feet past the apparent R/W lines down the intersecting streets. At the Ridgelake Drive / West Esplanade Canal intersection, the survey extended 100 feet east of the road centerline and 50 feet west of the roadway centerline.</p> <p>Control points were established every 500 feet to provide horizontal and vertical reference points for the project.</p> <p>Topographic features that were visible and accessible were surveyed in the project area to identify the northing, easting and elevation value for each data point. Topographic features included items such as roadway centerline, roadway edges, fences, light standards, traffic control devices, signage, structures, curbs, inlets, vegetation, driveways, utility poles, water's edge, canal top of bank, bridges, and manhole tops. Pavement joint lines and areas of heavy cracking were surveyed and mapped within the project limits. We also provided municipal numbers for the adjacent residences in the project area.</p> <p>BHA located visible above ground utilities and those underground utilities with visible surface evidence. These features include items such as valves, hydrants, meters, utility poles, utility boxes, culverts, drains, inlets. BHA determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above; invert elevations of the existing outfall pipe in the project area were obtained.</p> <p>BHA is currently providing a boundary survey of an area surrounding the proposed outfall pipe relocation along Ridgelake Drive and West Esplanade.</p>	
<p><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">2022</p>	<p align="center">unknown</p>	<p align="center">\$25,060</p>

**PROJECT NO. 9**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Survey of Existing Conditions Ascension Parish, LA</b></p> <p><b>East Ascension Consolidated Gravity Drainage District 1 Ron Savoy 615 E. Worthy St. Gonzales, LA 70737 <a href="mailto:Ron.savoy@apgov.us">Ron.savoy@apgov.us</a> (225) 450-1335</b></p>	<p>BHA provided surveying, mapping, and engineering design and the related construction drawings, specifications, and documents for drainage improvements along four roadways in the Parish.</p> <ul style="list-style-type: none"> <li>• Savoy Road – 2,800'</li> <li>• Penny Street - 1,600'</li> <li>• She Lee Drive – 2,700'</li> <li>• W. Autumn Drive – 1,500'</li> </ul> <p>Existing topographic features that are visible and accessible were surveyed in the project area, to identify the northing, easting and elevation value for each data point. The survey corridor width extended from apparent road right-of-way line to the opposite right-of-way line. This width was a nominal distance of 50' for the project roadways. Topographic features surveyed included items such as ditch top-of-bank, ditch centerline, culverts, drains, inlets, pavements, bridges, vegetation, utility poles, curbs, and driveways. The majority of the survey corridor has open ditch drainage and driveway culverts parallel to the roadways. In areas where a subsurface drainage system had been installed, invert elevations of the drainage network were obtained at all accessible inlets or drains.</p> <p>A random spray of elevations was obtained along the survey corridor to identify the top of ditch bank elevations, ditch slope elevations and the flowline of the existing ditch bottom. Also, the ditch centerline had an adequate number of shots taken to identify the profile of the ditch flowline.</p> <p>Other utility features to be surveyed were the visible and accessible items such as valves, hydrants, meters, utility poles and overhead electric lines. When available, BHA used record drawings from controlling agencies (Parish) to plot subsurface utilities based upon those maps when actual locations were not available.</p> <p>Additionally, a localized hydraulic analysis was performed from the topographic survey and potential drainage improvement options were presented for approval, for all four locations. Upon approval, the recommendations were incorporated into a set of construction drawings showing the approved final drainage improvements. A set of construction bid documents were provided, comprised of construction plans, specifications, and opinion of probable cost.</p>	
<p><b>Completion Date (Actual or estimated):</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018	unknown	\$69,500

**PROJECT NO. 10**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Dickory Avenue Extension: Hickory Ridge Lane to Jefferson Hwy PW Project 2020-010-RBP Jefferson Parish, LA</b></p> <p><b>Jefferson Parish Government Neil Schneider, P.E. Capital Projects 1221 Elmwood Park Blvd., Suite 906 Jefferson, LA 70123 NSchneider@jeffparish.net (504) 736-6833</b></p>	<p>BHA provided a topographic, utility, and cross section survey of the proposed Dickory Avenue extension corridor connecting Dickory Ave to Jefferson Highway. The limits of the survey begin 500 feet North of the intersection of Hickory Ridge Lane and Dickory Avenue and continue South to approximately 500 feet South of Jefferson Highway along Powerline Drive. At Jefferson Highway, the survey will extend 500 feet East/West down Jefferson Highway from the proposed Dickory Ave. Extension corridor. Survey data was collected within the corridor from r/w to r/w. Data was collected 100 feet down any side roads that intersect the survey limits.</p> <p>Control points were established for the project to provide horizontal and vertical reference points for the project. <i>Four</i> main control points were established using GPS technology with <i>three 3-hour OPUS Observations</i> to comply with DOTD control recommendations</p> <p>Topographic features were collected to identify the northing, easting and elevation value for each data point. Items such as culverts, drains, inlets, pavements, bushes, trees, perimeter outlines of heavily wooded areas, vegetation, utility poles, overhead electric, fences, curbs, driveways, etc, were collected. Additionally, finished floor elevations were collected on any buildings that fell within the limits of the survey.</p> <p>Cross sections were collected within the Dickory Avenue Extension survey corridor from Right of Way to Right of Way on 100-foot intervals.</p> <p>Utilities such as valves, hydrants, meters, utility poles, utility boxes, overhead electric lines, communication systems were collected. Manhole inverts for drainage and sewerage lines were obtained in the field for profile information.</p> <p>BHA produced a drainage map of the survey area. BHA confirmed drainage patterns, structure sizes and inverts, etc. The drainage map will show the survey line, the outline of the watershed area, and all structures/ditches.</p> <p>All surveying procedures and drafting will be in accordance with the LA DOTD Location and Survey Manual and submitted to DOTD for review.</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	\$16MM	\$101,600

**TEC Professional Services Questionnaire**

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

<b>Parties:</b>		<b>Status/Result of Case:</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
1. NOT APPLICABLE	NOT APPLICABLE	
2.		
3.		
4.		

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

**1. Professional Training and Experience :**

Bryant Hammett & Associates, LLC (BHA) is a Louisiana-based Limited Liability Corporation multi-disciplinary consulting land surveying, civil engineering, and disaster response firm which provides professional services for various governmental and private concerns. BHA was first organized in Concordia Parish in August 1984, starting as a small 4-member firm providing civil engineering and land surveying services to surrounding municipalities. Since then, the firm has grown to operate offices in Plaquemines, Jefferson, East Baton Rouge, and Concordia parishes.

BHA employees licensed and experienced professional land surveyors and civil and environmental engineers and, each with decades of performance. The firm has been the surveyor and engineer of record for numerous types of projects and offers the following survey services: boundary surveys; ALTA surveys, hydrographic surveys, topographic surveys, right-of-way determination, control and benchmarks, wetlands delineation, construction surveys, utility layout, pipeline surveys, elevation certificates and subdivision design and layout.

## TEC Professional Services Questionnaire

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

### **2. Capacity for Timely Completion:**

Based on the current and projected project workload and schedule, BHA is capable of allocating the necessary resources and manpower required to fulfill the requirements of this engagement in a timely fashion. BHA currently has the professional and support personnel available to provide the required services and initiate those services once authorized to proceed. BHA maintains a strong working relationship with the client to protect their interests and accomplish project goals in a cost effective, responsive, and responsible manner.

BHA maintains a staff of highly qualified, experienced, and licensed engineers, surveyors, technicians, cost estimators, GIS managers, certified floodplain managers, administrators, disaster recovery subject matter experts, inspectors, CADD operators and clerical support ensuring availability of professional and support personnel no matter the project.

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

### **3. Location of Principal Office Where Work Will be Performed:**

BHA's central locations allow us to work easily throughout Louisiana, however all work for this project will be performed out of our Harahan, LA office in Jefferson Parish.

### **4. Adversarial Legal Proceedings between the Parish and the Person or Firm:**

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

### **5. Prior Successful Completion of Projects of the Type and Nature of the Engineering Services:**

As illustrated in Section L, as well as in number 7 below, BHA has successfully completed dozens of projects providing professional services relating to the data collection of existing drainage systems, including civil design and all surveying required.

## TEC Professional Services Questionnaire

### 6. Size of Firm:

Bryant Hammett & Associates has grown from a small four-member firm in 1984 to 33 full-time employees today. The firm began by primarily serving local municipalities. The team at BHA worked, and continues to work, with these clients in coordinating, permitting, and securing funding sources through grants and bonds. Our executive management team has been working together since 1984 and has achieved a wealth of knowledge of engineering, surveying and the governmental permitting and funding processes. As a small business, the BHA Team is flexible and able to adapt to changing circumstances quickly and efficiently, as well as develop close relationships with clients to intimately understand project needs from inception to completion. Employees are cross-trained, ensuring that no facet of a project will ever be delayed.

BHA maintains a staff of highly qualified, experienced, and licensed engineers, surveyors, technicians, cost estimators, GIS managers, certified floodplain managers, administrators, disaster recovery subject matter experts, inspectors, CADD operators and clerical support ensuring availability of professional and support personnel no matter the project.

### 7. Past Performance by Person of Firm on Parish Contracts:

For the past 5 years, BHA has been qualified as a professional firm qualified to perform **As-Needed Surveying Services for Jefferson Parish**. Below is a listing of several surveying projects performed directly for Jefferson Parish.

Ridgewood Drive Rehabilitation  
Renaud Street Boundary  
Privateer Blvd Boundary  
Holmes Blvd. Improvements  
Marrero WWTP  
Wright Avenue Force Main  
Oakwood Smart Growth-Whitney Avenue and WB Expressway  
Avenue F Boundary  
BUDMAT Barataria Waterway  
JPRD Golf Driving Range  
Privateer & Joan Marie Lift Station  
Independence Park Drainage Improvements  
Woodmere Playground  
Hesper St. Boundary  
Dickory Avenue Extension  
Veterans Bike Multi-Use Bike Path Improvements  
Manley St. Boundary  
Goose Bayou Hydrographic Survey (post-Ida)  
Lower Jefferson Waterway Debris Removal  
Over 400 individual property elevation certificates

## TEC Professional Services Questionnaire

BHA regularly provides **surveying for engineering consultants in Jefferson Parish**. Below is a listing of several surveying projects located in Jefferson Parish performed or in process for engineering consultants in the Parish.

City of Gretna Drainage Improvements  
Long-Distance Sediment Pipeline  
Goose Bayou/Penn Levee  
LALD-Lafitte Tidal Protection-Lower Barataria Basin  
Harahan Wilson Sewer Improvements  
Florence Street Drainage Improvements  
Ridgelake Drive Drainage Improvements  
Parc Des Families Dock  
Bainbridge Canal Closure and Roadway Improvements  
Parc Des Families Soccer Fields  
Brown Foundation Ornamental Garden  
Crown Point Drainage Improvements  
Kennedy Heights Playground  
Johnny Jacobs Playground  
Jefferson Parish Animal Care and Service Facility  
JPRD Saints Drive Girls Complex  
King Avenue Roadway Rehabilitation  
Zatarain's Gretna Facility Upgrade  
Lincoln Manor Drainage Improvements  
Lift Station F8-5 Cleary and West Esplanade  
5<sup>th</sup> and 9<sup>th</sup> Street Sewer Lift Station  
3rd Street Drainage Improvements  
Lafitte Bridge Park Improvements  
JPRD LaSalle Soccer Fields Improvements  
Lafitte Levee Path Phase 4  
Brown Avenue Linear Park  
City of Kenner Highway Park Subdivision Resubdivision

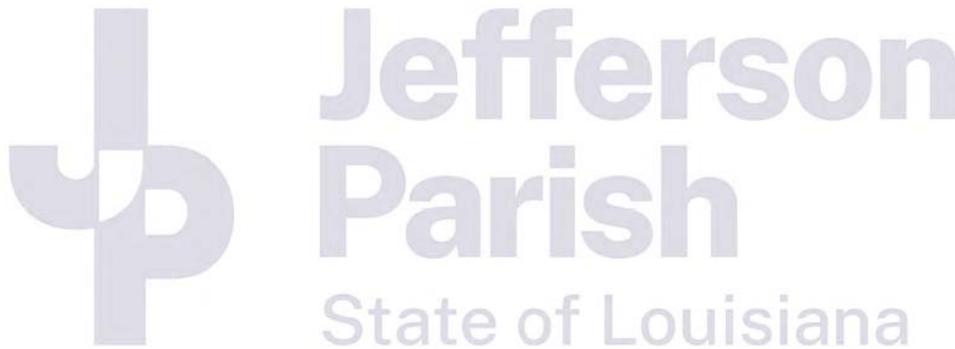
Jefferson Parish has actively participated in HMGP and HMA Funding since 2006. BHA personnel have been involved with Jefferson Parish in over \$280 million in funding grants for the home elevation program, in response to Hurricanes Katrina, Rita, Gustav, Ike and Isaac in the cities of Kenner, Gretna, Harahan, Westwego, Grand Isle, Jean Lafitte, Metairie, Marrero, River Ridge, Harvey, Barataria. BHA has been responsible for **Construction Supervision Services for Jefferson Parish's HMA Grant Program** for fiscal years 2013, 2014, 2015, 2016, 2017, 2018, and 2019 and HMGP projects for Katrina/Rita, Gustav/Ike, and Isaac.

- Jefferson Parish Construction Supervision of 2019 FMA and PDM Grant Funding: 178 properties, \$27 million
- Jefferson Parish Construction Supervision of 2018 HMGP and HMA Grant Funding: 79 properties, \$15.8 million
- Jefferson Parish Construction Supervision of 2017 HMGP and HMA Grant Funding: 126 properties, \$17.3 million

## TEC Professional Services Questionnaire

- Jefferson Parish Construction Supervision of 2015/2016 HMGP and HMA Grant Funding: 313 properties, \$30 million
- Jefferson Parish Construction Supervision of 2014 HMA Grant Funding: 50 properties, \$8.8 million
- Jefferson Parish Severe Repetitive Loss Program: 380+ properties, \$60 million
- Jefferson Parish Katrina/Rita HMGP: 450+ properties, \$83 million
- Jefferson Parish Gustav/Ike Recalculation HMGP: 130+ properties, \$30 million
- Jefferson Parish Isaac HMGP: 70+ properties, \$11 million

BHA currently manages Jefferson Parish's **Disaster Recovery Homeowner Repair Program for Residential Properties** through the Office of Community Development, where the construction supervision of approximately 160 individual properties is managed, including the monitoring of plans and construction to ensure compliance with applicable federal, state, and local guidance and to ensure all grant funds expended are allocated and used according to award requirements.



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

Signature:  Print Name: Bryant O. Hammett, Jr. P.E./P.L.S

Title: Owner/Manager Date: March 17, 2022