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Future



**SOQ No. 24-015: STATEMENT OF QUALIFICATIONS ROUTINE
ENGINEERING SERVICES FOR DRAINAGE PROJECTS
JEFFERSON PARISH, LA**



Proposal # 2024-999-319



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TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

**Statement of Qualifications for Routine Engineering Services for Drainage Projects
Jefferson Parish, Louisiana
SOQ No. 24-015**

B. Firm Name & Address:

**Providence Engineering and Environmental Group LLC
2200 Veterans Boulevard, Suite 102
Kenner, LA 70062**

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

**Gary Leonards, P.E., Principal-In-Charge
(504) 454-1710
Louisiana License No. 30568**

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.

**Murtada Mousa, P.E., CFM, Project Manager
(504) 454-1710
Louisiana License No. 47248**

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

<u>24</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>9</u> Civil Engineers	<u>0</u> Interior Designers	<u>11</u> Project Managers
<u>7</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>4</u> Clerical
<u>2</u> Ecologists	<u>4</u> Land Surveyor (crew)	<u>0</u> Grant/Funding Specialist
<u>0</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>2</u> Engineer Intern	<u>3</u> Environmental Engineers	<u>36</u> Other: Environmental Scientists, Technicians, Biologists
<u>1</u> Professional Land Surveyors	<u>6</u> Other: Draftsmen/AutoCADD	<u>110</u> TOTAL

F. Is this submittal by a JOINT VENTURE? Please check: Yes No

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

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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):
N/A		

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

15

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:

**Gary J. Leonards, P.E.
Engineering Principal**

Project Assignment:

Principal

Name of Firm with which associated:

Providence Engineering and Environmental Group LLC

Years' experience with this Firm: 19

Education: Degree(s)/Year/Specialization:

BS/1998/Biological Engineering, Environmental Engineering Minor

Active registration: Year first registered/discipline:

2003/Professional Civil Engineer/LA License No. 30568

Other experience and qualifications relevant to the proposed Project:

Gary Leonards, P.E. has over 24 years of experience in civil engineering. His background includes design, studies, regulatory permitting, engineering oversight, field investigations, risk-based evaluations, and closure planning for various types of waste treatment and disposal facilities. Infrastructure project experience includes roadways, drainage systems, levees, water treatment facilities, sanitary sewer systems, pump stations, force mains, landfills, surface impoundments, oxidation ponds, solid and hazardous waste containment systems, municipal and commercial drainage studies, storm water runoff evaluations, storm water conveyance design, and erosion/runoff control measures. Mr. Leonards has prepared permit modifications, developed closure plans for waste disposal facilities, developed surface water and leachate management solutions, performed hydrogeological investigations, and overseen geotechnical evaluations including settlement calculations, stability analysis and soil classification. In addition, his background includes water quality evaluations of restoration projects as well as reclamation of marsh and open water areas with dredge material. His solid waste background further includes remediation of underground storage tank/pipeline sites, Risk Evaluation/Corrective Action Program, beneficial use/reuse of waste materials, development of Best Management Practice Plans, and debris management following natural disasters. Mr. Leonards has been involved in several components of public transportation projects including environmental studies, project permitting and cost estimating, preliminary line and grade design, and construction quality assurance/quality control. Mr. Leonards has performed design and prepared various permit applications for wastewater collection and treatment infrastructure. He has also been responsible for the surveying and design of both passive and active landfill gas extraction systems.

Project Engineer/Project Manager: *Enterprise Marine Services, Sanitary Sewer System Upgrades.* Project engineer and project manager for the permitting, design, and installation of 13 sanitary lift stations, over 10,000 ft. of HDPE force main

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and gravity mains, and connection to the Terrebonne Parish wastewater treatment system. The project involved a detailed survey of the facility and public right-of-way, design of the system upgrades based on anticipated uses, Terrebonne Parish, Louisiana Department of Health and Hospitals, and Louisiana Department of Transportation and Development permitting, construction oversight and project management. Providence was responsible for all parish coordination for the installation of approximately 2,500 linear ft. of new force main along an existing state highway.

Project Principal: *Confidential Client, Drainage Engineering & Modeling, Cameron Parish, LA.* Providence provided drainage engineering and modeling services for the external reroute conveyance needed for construction of a confidential facility in Cameron Parish, LA. The scope of work included analyzing the existing drainage conditions, exploring options to design a new conveyance system around the proposed facility, and a site visit along with reviewing information in the Proposed Channel Maintenance in Cameron Area Report prepared by a third party. The main drainage feature will be consumed by the facility footprint and the flood wall to be constructed will impede flow and eliminate storage, so Providence designed a larger conveyance system to accommodate the needed conveyance and storage to maintain/improve the existing drainage conditions. The analysis used HEC-RAS 2-D modeling software to generate water surface elevations and flow rates that were monitored at critical points to compare existing flood waters and conveyance with the proposed reroute conveyance system. Existing structures, such as culverts and bridges, were modeled and for the proposed conditions these structures were either removed if they fell within the facility footprint or improved. In addition, structures were added to the new conveyance system were deemed necessary, to convey the needed amount of stormwater effectively. The determination of the needed conveyance and structures was determined through an iterative process by comparing different HEC-RAS 2-D model outputs.

Project Principal: *Confidential Client, Drainage Engineering & Modeling (Two Proposed Sites), Cameron Parish, LA.* Hydrologic modification impact analyses were completed for both proposed project sites. Each analysis used HEC-RAS 2-D modeling software to generate water surface elevations and flow rates that were monitored at critical points to compare existing flood waters and conveyance of the proposed conveyance system around proposed development. The most recent 2017 LiDAR imported from USGS website was used for the existing terrain along with a survey conducted by Providence. In addition, the corresponding soil survey and 2019 NRCS land cover map was downloaded to properly model the infiltration and runoff coefficient. Existing structures, such as culverts and bridges, were modeled with structures being added where necessary to convey the required amount of water.

Project Principal: *Delta Southern, Drainage Impact Analysis, Ascension Parish, LA.* Prepared a drainage impact analysis for a proposed parking and laydown area. The analysis used the topographic survey information, the surrounding hydrologically impacting areas, and the data collected on the existing drainage conveyance infrastructure surrounding the proposed facility. The analysis used HydroCAD modeling software to model stormwater runoff for existing development, post-development, and final drainage conditions for the property to the west and south. The final drainage design conditions incorporated mitigation measures to avoid adversely impacting drainage for the surrounding properties and to the receiving drainage structures downstream. Providence also prepared a report containing the results of the modeling efforts for each condition. Drawings were included in the report depicting proposed drainage features and any recommended mitigation measures for stormwater runoff.

Project Manager/Engineer: *West Baton Rouge Parish Government, West Baton Rouge Diversion Canal Phases I, II, and III, CDBG Project, West Baton Rouge Parish, LA.* Assistance in the preparation of an application to the Louisiana Office of Community Development Disaster Recovery Unit for funding under the Hurricanes Gustav and Ike Community Development Block Grant Recovery Program. Project includes engineering and design services for construction of a 3,700-foot diversion canal connecting to the Intracoastal Waterway to improve storm water drainage from northern sections of the parish. Scope of work also includes: pre-construction conference assistance; bid package assistance, supervision of the advertisement, tabulation and award process; field staking; construction supervision; if acquisition of property/servitude/rights-of-way is needed by the parish, preparation of property boundary maps and legal descriptions of each parcel to be acquired; review, approval and submission of contractor payment requests; submission of reproducible plan drawings and certified as-built drawings upon project completion; local, state and federal permitting; inspections; and project reporting.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Murtada Mousa, P.E., CFM
Engineering Supervisor

Project Assignment:

Project Engineer/Project Manager

Name of Firm with which associated:

Providence Engineering and Environmental Group LLC

Years' experience with this Firm: 1

Education: Degree(s)/Year/Specialization:

MS/2020/Civil & Coastal Engineering
BS/2016/Civil Engineering

Active registration: Year first registered/discipline:

2022/Professional Civil Engineer/LA License No. 47248
Certified Flood Plain Manager US-23-12914

Other experience and qualifications relevant to the proposed Project:

Murtada Mousa, P.E., M.S., CFM, has over seven years of professional engineering experience. He has worked on numerous roadway improvement projects, drainage enhancements, construction, coastal, sewer, and hydrological & hydraulic projects. Mr. Murtada's specific drainage improvement projects include the upgrade of catch basins, conveniences, roadway pavements, and erosion control measurements for the Lucher High School campus in St. James Parish, and the full plans for a new residential development in Lake Charles, Louisiana. In addition to the design of the sewer, electrical, water, and roadway systems and wastewater collection stations, he also designed the runoff management plan and the drainage system for the 164 lots. The drainage system included cross and side drains, open ditches, and detention ponds. Mr. Mousa has a bachelor's degree and a master's degree with a concentration in geotechnical/coastal engineering from the University of New Orleans.

Project Engineer: *Confidential Client, Ironton Area Drainage System Improvements, Plaquemines Parish, LA. Providence* was contracted to perform surveying, preliminary engineering, construction cost estimating, and project management services associated with stormwater drainage system upgrades in Ironton, LA. The scope of work includes a topographic survey to collect general elevation information along with the existing catch basins and conveyances, existing ditches, existing roadways and pavement, above-grade utilities, rights of ways and servitudes, and other above-grade features. Providence is modeling the existing drainage system using the collected survey data and information provided by Plaquemines Parish to propose two options and recommendations for the stormwater drainage upgrades. Preliminary engineering drawings are being developed for each option and included existing conditions hydraulic modeling results, proposed conditions modeling results, preliminary engineering plans, and estimated construction quantities and costs. After review of the preliminary design and associated construction costs estimates has been completed, Providence will prepare an updated set of preliminary plans that incorporate any stakeholders' requested edits. After completion of the preliminary civil engineering, Providence will prepare a construction budget for the drainage upgrades. Providence will facilitate meetings with all the project stakeholders to gather input and data to identify engineering solutions to ensure efficient, effective solutions for the

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drainage upgrades. Providence is also providing overall project management services that includes monthly project updates and the scheduling and attending of necessary project meetings.

Project Engineer: *St. James Parish Public School System, Lusher High School Drainage Project – Phase I, St. James Parish, LA.* This project consisted of improving and upgrading an existing under-sized subsurface drainage system within the Lusher High School sports complex. XPSWMM hydraulic software has been mainly utilized to estimate surface runoffs then to size adequate catch basins and conveyances. Mr. Mousa is the project manager for this project and his main duties involves drafting a scope of work for the filed survey team, preparing preliminary and final plans, cost estimates according to DOTD standards and specifications and St. James Parish ordinances, site visits, and daily client management tasks.

Project Engineer: *City of Patterson Sewer Lift Station Rehabilitation, Patterson, LA.* Providence is providing engineering design services to assist with the rehabilitation of nine sewer lift stations (SLS). Providence first completed a design study to evaluate and determine the best options for the SLS upgrades. Several design options for all nine SLS were investigated to assist in transporting peak flow conditions while maintaining allotted funding. Providence then evaluated the feasibility of the proposed options and explored multiple construction methods. In order to achieve the desired capacity and/or correct any deficiencies, existing conditions of each collection system's components were analyzed. Upon study completion, the client was provided with estimated construction cost as well as overall project cost that included all applicable services. The final pump station rehabilitation designs were based on the above-mentioned assessment and sewer user fee rate studies. The City of Patterson ultimately selected the alternative that includes the rehabilitation design and construction of the 9 SLS. SLS rehabilitation includes but is not limited to removal and replacement of electrical control panels for duplex pumps, pipping, valves, fittings, air release valves, pumps, and motors. A new bypass connection was included in this rehabilitation along with protective coating on the interior of the wet well.

Project Engineer: *Raw Water Intake Structure Pile Bent Replacement Project (Project No. WWKS 112), St. Charles Parish, LA.* This project is the replacement of nine timber piles with nine steel pile assemblies. The timber piles will be cut two feet below ground level and a steel pile will cap the remaining timber pile. A double-plate mechanism will be installed to allow the plates to be separated to bridge the gap between the existing decking and the new pile. Cross braces will be installed tying all three piles together. This strategy allows the decking to remain in place during construction.

Engineer Intern: *City of Carencro, ARPA-City Wide Water Main Rehabilitation Phase II, Carencro, LA.** The preparation of an engineering report used to apply for a grant to replace and upgrade old cast iron and ductile iron lines with new polyvinyl chloride pipes, and the installation of new fire hydrants and gate valves along the new water main. The report was a key part of successfully winning a \$5M grant for the city of Carencro. Project work included performing future population projections based on available data from the Census Bureau, obtaining monthly water production and consumption data from the client to estimate the lost amount of flow due to structural deficiencies, preparing project cost estimate and plan of work, and drafting an engineering report that included the scope of project, work to be done, population and quantity calculations, and project cost estimate.

*Prior to Providence.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

**Andrew Bull, P.E.
Engineering Director**

Project Assignment:

QA/QC Manager, Engineering Support

Name of Firm with which associated:

Providence Engineering and Environmental Group LLC

Years' experience with this Firm: <1

Education: Degree(s)/Year/Specialization:

BS/2017/Civil Engineering

Active registration: Year first registered/discipline:

2022/Professional Civil Engineer/ LA License No. 47125

Other experience and qualifications relevant to the proposed Project:

Andrew Bull, PE, has over 5 years of engineering experience that includes projects in both the public and private sectors. Mr. Bull has provided engineering and construction consultation to clients in the transportation, industrial, commercial development, coastal restoration, and marine industries on civil infrastructure projects including bridges, roadways, refining/chemical/process facilities, healthcare facilities, marsh creation, dredging, flood control structures, shoreline stabilization, marine terminal facilities, among others. The bulk of his experience lies in the geotechnical sub-discipline of civil engineering including site characterization and improvement, shallow and deep soil mixing of chemical admixtures, analysis of shallow/deep foundations, slope stability evaluations, settlement evaluations, regulatory permitting, and engineering reporting. Mr. Bull is experienced in project management, construction inspection, quality control/quality assurance programs, and project coordination. Prior to joining Providence, Mr. Bull served as a senior project engineer (geotechnical) for Fugro USA Land, Inc. on a variety of projects across the Louisiana and Texas Gulf Coast.

Project Engineer: *Confidential Client, Drainage Engineering & Modeling, Cameron Parish, LA.* Providence provided drainage engineering and modeling services for the external reroute conveyance needed for construction of a confidential facility in Cameron Parish, LA. The scope of work included analyzing the existing drainage conditions, exploring options to design a new conveyance system around the proposed facility, and a site visit along with reviewing information in the Proposed Channel Maintenance in Cameron Area Report prepared by a third party. The main drainage feature will be consumed by the facility footprint and the proposed flood wall will impede flow and eliminate storage. Providence designed a larger conveyance system to accommodate the required conveyance and storage to maintain/improve the existing drainage conditions. The analysis used HEC-RAS 2-D modeling software to generate water surface elevations and flow rates that were monitored at critical points to compare existing flood waters and conveyance with the proposed reroute conveyance system. Existing structures, such as culverts and bridges, were modeled and for the proposed conditions these structures were either removed if they fell within the facility footprint or improved. In addition, structures were added to the new conveyance system were deemed necessary, to convey the needed amount of stormwater effectively. The determination of the needed conveyance and structures was determined through an iterative process by comparing different HEC-RAS 2-D model outputs.

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Project Engineer: *Confidential Client, Drainage Engineering & Modeling (Two Proposed Sites), Cameron Parish, LA.* Hydrologic modification impact analyses were completed for both proposed project sites. Each analysis used HEC-RAS 2-D modeling software to generate water surface elevations and flow rates that were monitored at critical points to compare existing flood waters and conveyance of the proposed conveyance system around proposed development. The most recent 2017 LiDAR imported from USGS website was used for the existing terrain along with a survey conducted by Providence. In addition, the corresponding soil survey and 2019 NRCS land cover map was downloaded to properly model the infiltration and runoff co-efficient. Existing structures, such as culverts and bridges, were modeled with structures being added where necessary to convey the required amount of water.

Project Engineer: *Delta Southern, Drainage Impact Analysis, Ascension Parish, LA.* Prepared a drainage impact analysis for a proposed parking and laydown area. The analysis used the topographic survey information, the surrounding hydrologically impacting areas, and the data collected on the existing drainage conveyance infrastructure surrounding the proposed facility. The analysis used HydroCAD modeling software to model stormwater runoff for existing development, post-development, and final drainage conditions for the property to the west and south. The final drainage design conditions incorporated mitigation measures to avoid adversely impacting drainage for the surrounding properties and to the receiving drainage structures downstream. Providence also prepared a report containing the results of the modeling efforts for each condition. Drawings were included in the report depicting proposed drainage features and any recommended mitigation measures for stormwater runoff.

Project Engineer: *JJ's Dirt & Dozer, LLC, Drainage Impact Study, Tangipahoa Parish, LA.* Providence assisted with the preparation of the LDEQ Solid Waste Permit Application, engineering design and modifications, regulatory water permitting and USACE/Wetland permitting, miscellaneous survey services, and a drainage impact study (DIS) for compliance with Tangipahoa Parish ordinances. The DIS used HEC-RAS modeling software to assess the pre- and post-drainage conditions of the future final cap construction and to design any mitigation efforts needed to ensure the 25-year and the 100-year peak stormwater runoff is less than the existing condition per the Tangipahoa Parish code of ordinances. A topographic survey was conducted to assess the existing drainage structures and soil data and National Land Cover Data (NLCD) was imported for the model. A drone flight using aerial LiDAR was also conducted to capture other terrain features needed for the study that were not updated by the USGS. Per Tangipahoa Parish ordinance requirements, two 24-hour Soil Conservation Service (SCS) Type III storms were analyzed, with the 100-year being the design storm event. Using the 100-year storm event, an existing condition was created, and five existing structures were added into the base model. The DIS study was complete and a report was delivered to the client for submittal to the Parish.

Geotechnical Engineer of Record: *Bluewing Civil Consulting, LLC (CPPJ Gravity Drainage District No. 1), David Bayou Flood Mitigation Project, Calcasieu Parish, LA.** Mr. Bull provided coordination, geotechnical investigation, project management, engineering services, and geotechnical recommendations for the design of a detention pond in Sulphur, LA. This included slope stability analyses of the pond considering a nearby railroad, recommendations for water control structures, addressing seepage concerns and plugging options associated with subsurface soils onsite.

Project Engineer: *Confidential Client, Storm Surge Wall Analysis, Plaquemines Parish, LA.** Mr. Bull provided engineering analyses for the design of a pile-supported flood protection sheet pile wall around the facility. The flood wall was designed to provide adequate protection from storm surge associated with hurricane events.

Project Engineer: *Confidential Client, New Sump Addition, Calcasieu Parish, LA.** Mr. Bull provided geotechnical analyses for the installation of a new sump for an industrial facility. This included providing recommendations for the proper sheet penetration to support the construction of the sump.

**Prior to Providence.*

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

**Ian Smith, E.I.
Engineer Intern**

Project Assignment:

Engineer Intern

Name of Firm with which associated:

Providence Engineering and Environmental Group LLC

Years' experience with this Firm: 1

Education: Degree(s)/Year/Specialization:

**MS/2023/Civil Engineering
BS/2019/Environmental Engineering**

Active registration: Year first registered/discipline:

2020/Civil Engineer Intern/ LA License No.34373

Other experience and qualifications relevant to the proposed Project:

Ian Smith, EI, has a master's degree in civil engineering with a concentration in Water Resources along with a bachelor's in environmental engineering. His master's degree program included intensive study in hydraulics and water modeling as well as machine learning algorithms. He has more than two years of experience in civil engineering and water modeling including projects that require a Hydraulic Modification Impact Analysis, Drainage Impact Analysis, and Watershed Analysis. His water modeling experience includes HEC-RAS 1-D and 2-D modeling, HydroCAD, SWMM, as well as understanding the rational method. He also has experience with AutoCAD Civil3D and has assisted with project drawings and drafting.

Engineer Intern: *Delta Southern, Drainage Impact Analysis, Ascension Parish, LA.* Prepared a drainage impact analysis for a proposed parking and laydown area. The analysis used the topographic survey information, the surrounding hydrologically impacting areas, and the data collected on the existing drainage conveyance infrastructure surrounding the proposed facility. The analysis used HydroCAD modeling software to model stormwater runoff for existing development, post-development, and final drainage conditions for the property to the west and south. The final drainage design conditions incorporated mitigation measures to avoid adversely impacting drainage for the surrounding properties and to the receiving drainage structures downstream. Providence also prepared a report containing the results of the modeling efforts for each condition. Drawings were included in the report depicting proposed drainage features and any recommended mitigation measures for stormwater runoff.

Engineer Intern: *Confidential Client, Drainage Engineering & Modeling, Cameron Parish, LA.* Providence provided drainage engineering and modeling services for the external reroute conveyance needed for construction of a confidential facility in Cameron Parish, LA. The scope of work included analyzing the existing drainage conditions, exploring options to design a new conveyance system around the proposed facility, and a site visit along with reviewing information in the Proposed Channel Maintenance in Cameron Area Report prepared by a third party. The main drainage feature will be consumed by the facility footprint and the flood wall to be constructed will impede flow and eliminate storage, so Providence

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designed a larger conveyance system to accommodate the needed conveyance and storage to maintain/improve the existing drainage conditions. The analysis used HEC-RAS 2-D modeling software to generate water surface elevations and flow rates that were monitored at critical points to compare existing flood waters and conveyance with the proposed reroute conveyance system. Existing structures, such as culverts and bridges, were modeled and for the proposed conditions these structures were either removed if they fell within the facility footprint or improved. In addition, structures were added to the new conveyance system were deemed necessary, to convey the needed amount of stormwater effectively. The determination of the needed conveyance and structures was determined through an iterative process by comparing different HEC-RAS 2-D model outputs.

Engineer Intern: *Confidential Client, Ironton Area Drainage System Improvements, Plaquemines Parish, LA.* Providence was contracted to perform surveying, preliminary engineering, construction cost estimating, and project management services associated with stormwater drainage system upgrades in Ironton, LA. The scope of work includes a topographic survey to collect general elevation information along with the existing catch basins and conveyances, existing ditches, existing roadways and pavement, above-grade utilities, rights of ways and servitudes, and other above-grade features. Providence is modeling the existing drainage system using the collected survey data and information provided by Plaquemines Parish to propose two options and recommendations for the stormwater drainage upgrades. Preliminary engineering drawings are being developed for each option and included existing conditions hydraulic modeling results, proposed conditions modeling results, preliminary engineering plans, and estimated construction quantities and costs. After review of the preliminary design and associated construction costs estimates has been completed, Providence will prepare an updated set of preliminary plans that incorporate any stakeholders' requested edits. After completion of the preliminary civil engineering, Providence will prepare a construction budget for the drainage upgrades. Providence will facilitate meetings with all the project stakeholders to gather input and data to identify engineering solutions to ensure efficient, effective solutions for the drainage upgrades. Providence is also providing overall project management services that includes monthly project updates and the scheduling and attending of necessary project meetings.

Engineer Intern: *JJ's Dirt & Dozer, LLC, Drainage Impact Study, Tangipahoa Parish, LA.* Providence assisted with the preparation of the LDEQ Solid Waste Permit Application, engineering design and modifications, regulatory water permitting and USACE/Wetland permitting, miscellaneous survey services, and a drainage impact study (DIS) for compliance with Tangipahoa Parish ordinances. The DIS used HEC-RAS modeling software to assess the pre- and post-drainage conditions of the future final cap construction and to design any mitigation efforts needed to ensure the 25-year and the 100-year peak stormwater runoff is less than the existing condition per the Tangipahoa Parish code of ordinances. A topographic survey was conducted to assess the existing drainage structures and soil data and National Land Cover Data (NLCD) was imported for the model. A drone flight using aerial LiDAR was also conducted to capture other terrain features needed for the study that were not updated by the USGS. Per Tangipahoa Parish ordinance requirements, two 24-hour Soil Conservation Service (SCS) Type III storms were analyzed, with the 100-year being the design storm event. Using the 100-year storm event, an existing condition was created, and five existing structures were added into the base model. The DIS study was complete and a report was delivered to the client for submittal to the Parish.

Engineer Intern: *Confidential Client, Drainage Engineering & Modeling (Two Proposed Sites), Cameron Parish, LA.* Hydrologic modification impact analyses were completed for both proposed project sites. Each analysis used HEC-RAS 2-D modeling software to generate water surface elevations and flow rates that were monitored at critical points to compare existing flood waters and conveyance of the proposed conveyance system around proposed development. The most recent 2017 LiDAR imported from USGS website was used for the existing terrain along with a survey conducted by Providence. In addition, the corresponding soil survey and 2019 NRCS land cover map was downloaded to properly model the infiltration and runoff co-efficient. Existing structures, such as culverts and bridges, were modeled with structures being added where necessary to convey the required amount of water.

Engineer Intern: *Lafayette Parish Government, Master Drainage Plan, Lafayette Parish, LA.** Designed the 2D Hec-Ras model for Lafayette Parish's parish wide Master Drainage Plan, which involved utilizing the most recent 2017 LiDAR and 2019 NRCS land cover. Further refined the model to evaluate the Coulee Mine watershed within the master model for identification and assessment of drainage issues to be addressed by the parish. This included the addition of the existing 40+ structures comprising of bridges and culverts that were surveyed for the Coulee Mine model. **Prior to Providence.*

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Daniel Martin
Senior CAD Technician/Senior Draftsman

Project Assignment:

CAD Specialist

Name of Firm with which associated:

Providence Engineering and Environmental Group LLC

Years' experience with this Firm: 47

Education: Degree(s)/Year/Specialization:

1975/Drafting

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Daniel Martin has more than 40 years of experience as a Design Draftsman, working closely with graphic presentation of complex items having distinctive design features that differ significantly from established drafting precedents, as well as design plans. Mr. Martin analyzes effects of changes on the details of form, function, and positional relationships of components and parts. He is responsible for the preparation of construction drawings, including transferring field notes into work drawings. He is also experienced in cost estimating and material takeoffs. Mr. Martin has gained valuable field experience by working on a survey party for more than five years. He has completed courses in computer science, CAD, and AutoCAD and is experienced in electronic plan preparation. He also has experience in operating Autocad Civil3D to create civil plans for water, gas, and drainage utilities. Mr. Martin specializes in CAD drafting of utilities, mainly sewer, water, and gas systems.

Drafting/CAD: *Terrebonne Parish Consolidated Government, Baroid Pump Station, Bayou LaCarpe Drainage Improvements Phase D, Parish Project No. 06-DRA-45, Terrebonne Parish, LA.* Project oversight for construction of a new drainage pump station to replace the existing one. Scope of work includes engineering design and construction administration for a pile-supported pre-cast concrete drainage pump station substructure consisting of a pump deck and lower deck of galvanized steel grating over structural steel support bracing. Intake basin includes an anchored steel sheetpile bulkhead with concrete bottom. Further work consists of excavation of intake basin, backfill and final grading, limestone surface, access ramp, 48-inch and 117-inch x 79-inch culverts, catch basins, 60-inch steel by-pass pipe, timber dolphins, riprap for shore protection, discharge piping, fuel system, pump and engine installation. Existing station removed once new one operational. Includes preparation of a CDBG-DR grant application, as well as permitting, surveying and utility coordination, right-of-way acquisitions, geotechnical coordination, and bidding assistance, apart from civil, structural, mechanical and electrical engineering design. Total discharge capacity of 400 cfs.

Drafting/CAD: *Terrebonne Parish Consolidated Government, Summerfield Drainage Pump Station Upgrades, Parish Project No. 09-DRA-10, Terrebonne Parish, LA.* Scope of work included engineering design and construction

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administration for a new 4-bay pile-supported pre-cast concrete pump station substructure with three 48-inch diameter pumps, together with steel sheetpile bulkhead, discharge piping, barscreens with automatic rake systems, pre-engineered metal building, fuel system, pumps and engine installation, electrical system, SCADA/telemetry system and generator; in addition were excavation and embankment, discharge support bents, by-pass piping, motorized control gates, two 2,000-gallon double-wall fuel tanks, concrete sump, solar electric power, demolition of old pump station, fencing and related items. The station required a pre-cast concrete bridge deck for access and was designed to handle truck loads supporting pumps, equipment, and maintenance vehicles; also included concrete and metal railing for access and aggregated roadway. During construction, normal pumping capacity at the existing pump station was maintained. Professional services included project management and representation, engineering design (civil, structural, electrical, and mechanical), plans and specifications, permitting, and bidding assistance. Further required geotechnical and utilities coordination, hydraulics design, wetlands determination, storm water runoff and SPCC plan, surveying and right-of-way acquisitions, along with CDBG-DR grant application.

Drafting/CAD: *Terrebonne Parish Consolidated Government, Suzie Canal (North) Levee Extension (CDBG), Project No. 10-LEV-31, Terrebonne Parish, LA.* Construction of 13,000 linear ft. of levee between the northern boundary of Cane Break subdivision to Bobtown Bridge Road. Project included refurbishing the Cane Break forced drainage levee and new construction of levee for forced drainage to the community of Bobtown.

Drafting/CAD: *Terrebonne Parish Consolidated Government, Upper Little Caillou Pump Station (HMGP) Project, Terrebonne Parish, LA.* The scope of work includes a new 4-bay pre-cast concrete pump station sub-structure and access bridge together with excavation and embankment, steel sheetpile bulkhead, steel discharge piping, discharge support bents, pre-engineered metal building, four new pumps and engines, automatic trash rakes, station lighting, 4,000 gallon double wall fuel tank, concrete sump, fencing, demolition of old pump station, back-up generator power, telemetry and SCADA system, aggregate roadway and other items of work in connection therewith.

Drafting/CAD: *Terrebonne Parish Consolidated Government, New Shrimper's Row Drainage Pump Station (D-11), Lower Grand Caillou (CDBG), Parish Project No. 10-CDB-R-34, Terrebonne Parish, LA.* Design and construction oversight for a new 4-bay pre-cast concrete pump station substructure and access bridge together with excavation and embankment, steel sheetpile bulkhead, steel discharge piping, discharge support bents, pre-engineered metal building, two new 36-inch diameter pumps and engines, by-pass pipes and motorized control gates, one 4,000 gallon double-wall fuel tank, concrete sump, fencing, back-up generator power, telemetry/SCADA system, and demolition of old pump station. Included wetlands delineation, environmental documentation, permitting and jurisdictional determination. CDBG project.

Drafting/CAD: *Terrebonne Parish Consolidated Government, Bayou LaCarpe Drainage Improvements, Location "D" (Magnolia and Barringer Street Subsurface Drainage), Terrebonne Parish, LA.* The project is the removal of existing piping and the installation of 1,758-ft. of drainage pipes ranging from 15-inch diameter to 36-inch diameter in size, upgrading existing catch basins, fixing erosion along existing pipe with concrete collars and catch basin replacement, and tying in existing downspouts to drainage system.

Drafting/CAD: *Lutcher High School Campus Drainage Improvements, St. James Parish, LA.* Work consists of the installation of subsurface drainpipes and catch basins, removal and replacement of portland cement concrete, removal and replacement of asphalt, swale excavation, cleaning of existing drainpipes, connection to existing catch basins and other incidental items of work therewith.

Drafting/CAD: *Terrebonne Parish Consolidated Government, Six-Foot Ditch Levee Repair, Terrebonne Parish, LA.* Relocation of approximately 5,400 linear ft. of levee along the 6-foot ditch from St. Louis Canal to near New Orleans Blvd. This work is based upon offsetting the existing levee away from the 6-foot ditch approximately 30 ft., degrading the existing levee and hauling in additional borrow material. This work required clearing and grubbing, wetland determination, wetland mitigation, permit approvals, additional geotechnical analysis, servitude acquisition and associated items of work.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

**Todd Harris, PLS
Survey Manager**

Project Assignment:

Professional Land Surveyor

Name of Firm with which associated:

Providence Engineering and Environmental Group LLC

Years' experience with this Firm: 1

Education: Degree(s)/Year/Specialization:

BS/2002/Construction Management

Active registration: Year first registered/discipline:

**2011/Professional Land Surveyor/LA License No. 5049
FAA Part 107 Remote Pilot/ No. 4948185**

Other experience and qualifications relevant to the proposed Project:

Todd Harris, PLS, has more than 23 years of professional experience working for construction, engineering, and land surveying firms and obtained his professional LA surveying licensure in 2011 and his professional MS surveying licensure in 2023. He has managed survey departments with up to 35 employees including 10 field crews. In his current role with Providence, he manages all aspects and projects within the survey department. Specific project experience includes large-scale public, industrial and municipal infrastructure improvement projects, and numerous private site development projects (commercial and industrial) and various drainage improvements projects for multiple municipalities.

Professional Land Surveyor: *Confidential Client, Drainage Engineering & Modeling, Cameron Parish, LA.* Providence provided drainage engineering and modeling services for the external reroute conveyance needed for construction of a confidential facility in Cameron Parish, LA. The scope of work included analyzing the existing drainage conditions, exploring options to design a new conveyance system around the proposed facility, and a site visit along with reviewing information in the Proposed Channel Maintenance in Cameron Area Report prepared by a third party. Providence also conducted a topographic survey of the major existing drainage features in the project area. The main drainage feature will be consumed by the facility footprint and the proposed flood wall will impede flow and eliminate storage. Providence designed a larger conveyance system to accommodate the required conveyance and storage to maintain/improve the existing drainage conditions.

Professional Land Surveyor: *Confidential Client, Drainage Engineering & Modeling (Two Proposed Sites), Cameron Parish, LA.* Hydrologic modification impact analyses were completed for both proposed project sites. Each analysis used HEC-RAS 2-D modeling software to generate water surface elevations and flow rates that were monitored at critical points to compare existing flood waters and conveyance with the proposed conveyance system around proposed development. The most recent 2017 LiDAR imported from USGS website was used for the existing terrain along with a survey conducted by Providence. In addition, the corresponding soil survey and 2019 NRCS land cover map was downloaded to properly model the infiltration and runoff co-efficient. Existing structures, such as culverts and bridges, were modeled and structures were

TEC Professional Services Questionnaire

added to the new conveyance system were deemed necessary, to convey the needed amount of stormwater effectively.

Professional Land Surveyor: *Surveying Services for CPRA (Contract 4400026124; PO-0104) Bayou Bonfouca Marsh Creation, St. Tammany Parish, LA.* Topographic & bathymetric surveys to monitor four marsh creation areas & provide survey elevation data. Providence also provided notice to landowners who requested a survey schedule, coordinated with the US Fish and Wildlife Southeast Louisiana National Refuge Complex Office for site access, referenced all horizontal and vertical control to CPRA, coordinated all procedures necessary to conduct field work in CPRA standards, and submitted all deliverables required.

Professional Land Surveyor: *LA DOTD Contract No. 4400023718; H.013340 Valhi Blvd. Multi-Use Trail Phase 1, Terrebonne Parish, LA.* Survey, design, and construction support. Surveying services were provided as dictated by the DOTD Location and Survey Manual which included running a closed level loop utilizing a Leica LS-15 digital level for 1st order level accuracies, on all control points and temporary benchmarks throughout the project area. GPS static and RTK observations were also performed on all horizontal control and a GPS control sketch was produced. Conventional GPS and terrestrial surveying were performed using DOTD coding and linework referencing the established control network, including attribute loading all necessary survey data during the field operations. Standard survey Microstation file deliverables were provided as required by the Location and Survey Manual.

Professional Land Surveyor: *ALTA Boundary Surveys of Athens Tracts, East Baton Rouge Parish, LA.* The survey was done in conformance with the standards developed by ALTA and the National Society of Professional Surveyors (NSPS). Providence provided a two-man survey crew with office support to prepare a boundary survey for two tracts of property (79 Acre Tract, 88.5 Acre Tract & 16 Acre Tract). The boundary survey consisted of locating the existing boundary markers, setting new boundary markers as necessary, researching reference survey, locating water's edge and roadway, tying into to Louisiana State Plane Coordinate System, provided FEMA flood zone requirements, and prepared a legal description of the survey. After completion of the survey efforts, Providence provided the survey plat and description.

Professional Land Surveyor: *Slidell Airport Runway 18 Obstruction Mitigation Transmission Line Right-of-Way Survey, St. Tammany Parish, LA.* Providence provided a right-of-way route survey and ROW plat preparation to establish a new right-of-way alignment for transmission line relocation. The ROW survey included locating existing reference property markers, setting new ROW markers every 1,000 feet, and recording cross-sections every 1000 feet along 18,000 linear feet of right-of-way. Providence survey crew provided abstract, right-of-way plat preparation, and legal description for each landowner along ROW alignment. A marsh buggy was used to clear line of site for surveyors. The route survey consisted of locating existing transmission lines and establishing new right-of-way alignment for transmission relocation.

Professional Land Surveyor: *Confidential Client, Ironton Area Drainage System Improvements, Plaquemines Parish, LA* Providence was contracted to perform surveying, preliminary engineering, construction cost estimating, and project management services associated with stormwater drainage system upgrades in Ironton, LA. The scope of work includes a topographic survey to collect general elevation information along with the existing catch basins and conveyances, existing ditches, existing roadways and pavement, above-grade utilities, rights of ways and servitudes, and other above-grade features.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Brian Molaison

Project Assignment:

Survey Party Chief

Name of Firm with which associated:

Providence Engineering and Environmental Group LLC

Years' experience with this Firm: **15**

Education: Degree(s)/Year/Specialization:

AS/2002/CAD/Survey

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Brian Molaison serves as an experienced survey party chief who is capable of the operation of the total station and the GPS systems, as well as overseeing the field surveying operations. He is familiar with all aspects of boundary, topographic, construction layout, route, and rights-of-way surveying. Mr. Molaison also serves as a surveying technician, who regularly downloads electronic field notes to AutoCAD and processes data. He has extensive experience in surveying, computing and compiling surveys, plotting cross-sections, profiles, and preparing field rolls and plats.

Survey Party Chief: *Confidential Client, Drainage Engineering & Modeling, Cameron Parish, LA.* Providence provided drainage engineering and modeling services for the external reroute conveyance needed for construction of a confidential facility in Cameron Parish, LA. The scope of work included analyzing the existing drainage conditions, exploring options to design a new conveyance system around the proposed facility, and a site visit along with reviewing information in the Proposed Channel Maintenance in Cameron Area Report prepared by a third party. Providence also conducted a topographic survey of the major existing drainage features in the project area. The main drainage feature will be consumed by the facility footprint and the proposed flood wall will impede flow and eliminate storage. Providence designed a larger conveyance system to accommodate the required conveyance and storage to maintain/improve the existing drainage conditions.

Survey Party Chief: *Confidential Client, Drainage Engineering & Modeling (Two Proposed Sites), Cameron Parish, LA.* Hydrologic modification impact analyses were completed for both proposed project sites. Each analysis used HEC-RAS 2-D modeling software to generate water surface elevations and flow rates that were monitored at critical points to compare existing flood waters and conveyance with the proposed conveyance system around proposed development. The most recent 2017 LiDAR imported from USGS website was used for the existing terrain along with a survey conducted by Providence. In addition, the corresponding soil survey and 2019 NRCS land cover map was downloaded to properly model the infiltration and runoff co-efficient. Existing structures, such as culverts and bridges, were modeled and structures were added to the new conveyance system were deemed necessary, to convey the needed amount of stormwater effectively.

Survey Party Chief: *Confidential Client, Ironton Area Drainage System Improvements, Plaquemines Parish, LA* Providence was contracted to perform surveying, preliminary engineering, construction cost estimating, and project management services associated with stormwater drainage system upgrades in Ironton, LA. The scope of work includes a

TEC Professional Services Questionnaire

topographic survey to collect general elevation information along with the existing catch basins and conveyances, existing ditches, existing roadways and pavement, above-grade utilities, rights of ways and servitudes, and other above-grade features.

Survey Technician: *Terrebonne Parish Consolidated Government, Westside Boulevard Extension (West Main Avenue to Martin Luther King Boulevard), Terrebonne Parish, LA.* Construction consisted of a 54-foot wide Portland cement concrete roadway above aggregate base course together with curb and gutter, sub-surface drainage, striping, clearing and grubbing, utility adjustments, and other required items. Project also included design and construction of new roadway including subsurface drainage, gravity sewers, and sewer force main with jack and bore 40-inch diameter steel casing for a 24-inch collection line and directional drilling of 18-inch diameter sewer force mains

Survey Technician: *Terrebonne Parish Consolidated Government, Bulldog Boulevard Roadway Improvements, Lutchet, St. James Parish, LA.* Survey assistance on engineering design services for this project which consisted of asphaltic concrete road construction together with base preparation, excavation and linear grading, and other required items of work in connection therewith. The total length of construction included within this project is approximately 1,700 linear ft.

Survey Party Chief: *Louisiana Department of Natural Resources (LDNR), Indefinite Delivery Contract, Coastal Restoration – Surveying Services and Engineering Assistance, State Contract No. 2503-08-26, Lafourche, Terrebonne and St. Charles Parishes, LA.* Project representation for project involving topographic and elevation surveys, GPS surveys and water soundings for various levee, coastal, and marsh restoration projects. Included management and construction administration services. Projects included LA-01 Dedicated Dredge Program (Point Au Fer Island and Grand Bayou), and Lake Salvador Shoreline Protection (BA-15x2).

Party Chief: *Shell, Mars Marsh Creation Project, Lafourche Parish, LA.* The project consisted of preparing topographic and hydrographic survey of four sites for restoration. Provided ortho-mosaic photos using Unmanned aerial system. Prepared plan drawings of each site and cross-sections of each pond area.

Party Chief: *Enterprise, Port Allen Pipeline Crossing Replacement, West Baton Rouge Parish, LA.* The project consisted of preparing a hydrographic survey and pipeline location survey of existing 20-inch and 16-inch pipelines. This included Hydro survey, pipeline locate, right-of-way preparation, and construction layout of new lines. Prepared plan and cross-sections showing depth of existing channel and pipelines.

Party Chief: *Enterprise Products Company, BRSI Levee Crossing Project, West Baton Rouge Parish, LA.* The project consisted of preparing a topographic survey of two 10-inch pipeline Levee crossings. Prepared plan and profile sheet showing depth of cover for each pipeline.

Party Chief: *Kinder Morgan Terminals, St. Gabriel Terminal.* The project consisted of preparing a topographic survey for engineering a staircase for levee access. Prepared plan and profile sheet for permitting.

Survey Technician: *U.S. Army Corps of Engineers (USACE), Indefinite Delivery Contract, Coastal Restoration, Coastal LA.* GPS and control surveys for several projects: Davis Pond Diversion Levee System, Wax Lake Outlet East Levee System, Spanish Pass, and Atchafalaya West Basin survey.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Colby Mire

Project Assignment:

Survey Technician

Name of Firm with which associated:

Providence Engineering and Environmental Group LLC

Years' experience with this Firm: **11**

Education: Degree(s)/Year/Specialization:

BS/2015/Geomatics

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Colby Mire has experience in the surveying field and as a quality assurance representative on projects involving all aspects of construction observation, which includes the preparation of reports for testing and inspection, inspection of concrete placement and rebar installation; inspection of dredging operations, levee construction, riprap and gabion placement, floodwalls, water control structures, inspection of concrete testing, making of cylinders and inspection of forms before placement, inspection of concrete plant to ensure the design and mix meet contract specifications, inspection of concrete placement on floodwalls, streets, sidewalks, curbs, and driveways; inspection of waterline relocations, drainage, video inspection of sewer lines, power lines and driving of sheet piling.

Project Representative: *Confidential Client, Ironton Area Drainage System Improvements, Plaquemines Parish, LA*

Providence was contracted to perform surveying, preliminary engineering, construction cost estimating, and project management services associated with stormwater drainage system upgrades in Ironton, LA. The scope of work includes a topographic survey to collect general elevation information along with the existing catch basins and conveyances, existing ditches, existing roadways and pavement, above-grade utilities, rights of ways and servitudes, and other above-grade features.

Project Representative: *Confidential Client, Drainage Engineering & Modeling, Cameron Parish, LA.*

Providence provided drainage engineering and modeling services for the external reroute conveyance needed for construction of a confidential facility in Cameron Parish, LA. The scope of work included analyzing the existing drainage conditions, exploring options to design a new conveyance system around the proposed facility, and a site visit along with reviewing information in the Proposed Channel Maintenance in Cameron Area Report prepared by a third party. Providence also conducted a topographic survey of the major existing drainage features in the project area. The main drainage feature will be consumed by the facility footprint and the proposed flood wall will impede flow and eliminate storage. Providence designed a larger conveyance system to accommodate the required conveyance and storage to maintain/improve the existing drainage conditions.

Project Representative: *Confidential Client, Drainage Engineering & Modeling (Two Proposed Sites), Cameron Parish, LA.*

Hydrologic modification impact analyses were completed for both proposed project sites. Each analysis used HEC-RAS 2-D modeling software to generate water surface elevations and flow rates that were monitored at critical points to

TEC Professional Services Questionnaire

compare existing flood waters and conveyance with the proposed conveyance system around proposed development. The most recent 2017 LiDAR imported from USGS website was used for the existing terrain along with a survey conducted by Providence. In addition, the corresponding soil survey and 2019 NRCS land cover map was downloaded to properly model the infiltration and runoff co-efficient. Existing structures, such as culverts and bridges, were modeled and structures were added to the new conveyance system were deemed necessary, to convey the needed amount of stormwater effectively.

Project Representative: *Terrebonne Parish Consolidated Government, Six-Foot Ditch Levee Repair, Terrebonne Parish, LA.* Relocation of approximately 5,400 linear ft. of levee along the 6' ditch from St. Louis Canal to near New Orleans Blvd. This work is based upon offsetting the existing levee away from the 6' ditch approximately 30', degrading the existing levee and hauling in additional borrow material. This work will require clearing and grubbing, wetland determination, wetland mitigation, permit approvals, additional geotechnical analysis, servitude acquisition and associated items of work.

Project Representative: *Terrebonne Parish Consolidated Government, Ashland Forced Drainage Pump Station (D-09), Outfall Canal Improvements and Access Bridge (CDBG-DR), Parish Project No. 08-DRA-25, Terrebonne Parish, LA.* Design and construction oversight of a pile-supported pre-cast concrete pump station substructure for three 48-inch diameter pumps and one 24-inch diameter pump with steel sheetpiles, discharge piping, fuel system, pumps/engine installation, electrical, SCADA/telemetry system, and generator. Improvements made to drainage canal through excavation and levee improvements along the Ashland Drainage Pump Station Outfall Canal for a total project length of approximately 9,120 linear ft. pump station utilizes a pre-cast concrete bridge deck designed to handle truck loads supporting the pumps, equipment, and maintenance vehicles. LCDBG application and administration.

Project Representative: *Forced Drainage Project 2-1A; Phase VI – Honeysuckle, Terrebonne Parish, LA.* Engineering and design for the installation of drainage pipes, structures, and ditch grading along Joyce Street, La. Hwy. 20, Main Project Road and Honeysuckle Drive and other items in connection therewith.

Instrumentman: *Terrebonne Parish Consolidated Government, Bayou LaCarpe Drainage Improvements, Location "D" (Magnolia and Barringer Street Subsurface Drainage), Terrebonne Parish, LA.* Work consists of the installation of subsurface drainpipes and catch basins, removal and replacement of portland cement concrete, removal and replacement of asphalt, swale excavation, cleaning of existing drain pipes, connecting to existing catch basins and other incidental items of work therewith.

Project Representative: *Terrebonne Parish Consolidated Government, Suzie Canal (North) Levee Extension (CDBG), Project No. 10-LEV-31 Terrebonne Parish, LA.* Construction of 13,000 linear ft. of levee between the northern boundary of Cane Break subdivision to Bobtown Bridge Road. Project includes refurbishing the Cane Break forced drainage levee and new construction of levee for forced drainage to the community of Bobtown.

Project Representative: *City of Patterson, Drainage Study, St. Mary, LA.* The study encompassed the area within the boundaries of LA Hwy 182 Red Cypress Road and US Hwy 90, as well as the subdivisions south of the railroad tracks. Staff gauges were installed, and once data was collected by the owner, a hydraulic model was developed to determine where "bottlenecks" in the drainage system were located. A construction cost estimate was then created for installation/replacement of culverts to alleviate the "bottlenecks".

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

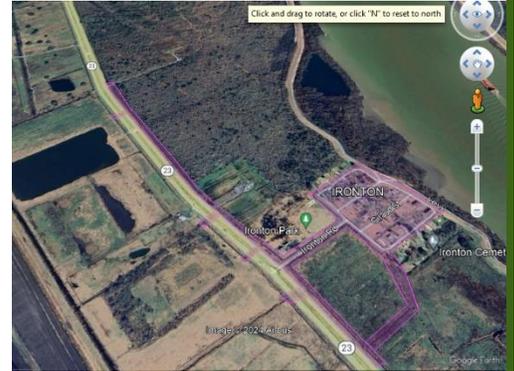
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>West Baton Rouge Diversion Canal Phase I, II, and III Port Allen, LA</p> <p>WBR Parish Government 880 N. Alexander Avenue, Port Allen, LA 70767</p> <p>Jason Manola 225-383-4755 Jason.manola@wbrCouncil.org</p>	<p>Providence assisted in the preparation of an application to the Louisiana Office of Community Development Disaster Recovery Unit for funding under the Hurricanes Gustav and Ike Community Development Block Grant (CDBG) Recovery Program. Providence also provided the engineering and design services for the construction of a 3,700-foot diversion canal connecting to the Intracoastal Waterway to improve storm water drainage from northern sections of the parish. Scope of work also includes: pre-construction conference assistance; bid package assistance; field staking; construction supervision; acquisition of property/servitude/rights-of-way by West Baton Rouge Parish, preparation of property boundary maps and legal descriptions of each parcel to be acquired; review, and submission of contractor payment requests to Parish for approval; submission of reproducible plan drawings and certified as-built drawings upon project completion; local, state and federal permitting, as needed; inspection reports, final inspection and testing; and project reporting.</p> <p>Providence Services Provided:</p> <ul style="list-style-type: none"> • Project Management • CDBG Grant Application Assistance • Topographical Surveying • Engineering Design • Permitting • Bid Documentation and Assistance • Servitude and Rights-of-Way Acquisitions • Inspections and Testing • Construction Administration and Oversight • Quality Assurance / Quality Control 	
Completion Date (Actual or Estimated):	Estimated Cost (in thousands):	
	Entire Project:	Work for which Firm was Responsible:
2012 (A)	\$600,000	\$133,000



TEC Professional Services Questionnaire

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Ironton Aera Drainage System Improvements Plaquemines Parish, LA</p> <p>Confidential Client</p> <p>Charlie Burt 504-343-8878</p>	<p>Providence was contracted to perform surveying, preliminary engineering, construction cost estimating, and project management services associated with stormwater drainage system upgrades in Ironton, LA. The scope of work includes a topographic survey to collect general elevation information along with the existing catch basins and conveyances, existing ditches, existing roadways and pavement, above-grade utilities, rights of ways and servitudes, and other above-grade features. Providence is modeling the existing drainage system using the collected survey data and information provided by Plaquemines Parish to propose two options and recommendations for the stormwater drainage upgrades. Preliminary engineering drawings are being developed for each option and include existing conditions hydraulic modeling results, proposed conditions modeling results, preliminary engineering plans, and estimated construction quantities and costs.</p> <p>After review of the preliminary design and associated construction costs estimates has been completed, Providence will prepare an updated set of preliminary plans that incorporate any stakeholders' requested edits. After completion of the preliminary civil engineering, Providence will prepare a construction budget for the drainage upgrades. Providence will facilitate meetings with all the project stakeholders to gather input and data to identify engineering solutions to ensure efficient, effective solutions for the drainage upgrades. Providence is also providing overall project management services that includes monthly project updates and the scheduling and attending of necessary project meetings.</p>	
Completion Date (Actual or Estimated):	Estimated Cost (in thousands):	
	Entire Project:	Work for which Firm was Responsible:
2024 (E)	N/A	\$153,580



TEC Professional Services Questionnaire

PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Confidential Client Drainage Engineering and Modeling (Two Proposed sites) Cameron Parish, LA</p> <p>Confidential Client</p> <p>Alex Buller 337-466-7242</p>	<p>Providence completed hydrologic modification impact analyses for two proposed project sites. Each analysis used HEC-RAS 2-D modeling software to generate water surface elevations (WSE) and flow rates that were monitored at critical points to compare existing flood waters and conveyance of the proposed conveyance system around proposed development. The most recent 2017 LiDAR imported from United States Geological Survey (USGS) website and Providence surveys were used for the existing terrain. In addition, the corresponding soil survey and 2019 Natural Resources Conservation Service (NRCS) land cover map was downloaded to properly model the infiltration and runoff co-efficient. Existing structures were included in the model, and additional structures were added to the new proposed conveyance system to adequately convey storm water effectively.</p>	
Completion Date (Actual or Estimated):	Estimated Cost (in thousands):	
	Entire Project:	Work for which Firm was Responsible:
2024 (E)	N/A	\$370,000

TEC Professional Services Questionnaire

PROJECT NO. 4

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Forest Avenue Drainage Improvements Lake Charles, LA</p> <p>Calcasieu Parish Police Jury PO Box 3287 Lake Charles, LA 70602</p> <p>Terry Frelot 337-721-3700 tfrelot@cppj.net</p>	<p>This project consists of the design to improve drainage of stormwater on Forest Ave. in Calcasieu Parish. Services conducted by Providence staff include wetlands delineation and data report, USACE Section 404 permit acquisition, property research and field survey, ROW maps and acquisition coordination, preliminary sketches, and pipeline coordination. Articulated concrete mats will be used over gas lines, with open ditch along the servitude to accommodate the ditch side slopes and maintenance access; it was recommended that the pipeline subsurface through the wetland in the area, as the servitude would return to its natural habitat after installation, decreasing mitigation/permitting costs and efforts. Culverts will be installed using trench boxes.</p> <div style="display: flex; justify-content: space-around;">   </div>	
Completion Date (Actual or Estimated):	Estimated Cost (in thousands):	
	Entire Project:	Work for which Firm was Responsible:
2024 (E)	\$187,600	\$89,700

TEC Professional Services Questionnaire

PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Delta Southern Drainage Impact Analysis Ascension Parish, LA</p> <p>Delta Properties 17732 Highland Rd, Ste. G-285 Baton Rouge, LA 70810</p> <p>James Dhooge 225-354-5602</p>	<p>Providence prepared a drainage impact analysis for a proposed parking and laydown area. The analysis used the topographic survey information, the surrounding hydrologically impacting areas, and the data collected on the existing drainage conveyance infrastructure surrounding the proposed facility. The analysis used HydroCAD modeling software to model stormwater runoff for existing development, post-development, and final drainage conditions for the property to the west and south. The final drainage design conditions incorporated mitigation measures to avoid adversely impacting drainage for the surrounding properties and to the receiving drainage structures downstream. Providence also prepared a report containing the results of the modeling efforts for each condition. Drawings were included in the report depicting proposed drainage features and any recommended mitigation measures for stormwater runoff.</p>	
Completion Date (Actual or Estimated):	Estimated Cost (in thousands):	
	Entire Project:	Work for which Firm was Responsible:
2024(E)	N/A	\$17,000

TEC Professional Services Questionnaire

PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p style="color: #0070C0; margin: 0;">Drainage System Improvements for Confidential Facility Construction</p> <p style="margin: 0;">Cameron Parish, LA</p> <p style="margin: 0;">Confidential Client</p> <p style="margin: 0;">Peter Bell 504-343-8878</p>	<p>Providence provided drainage engineering and modeling services for the external reroute conveyance needed for construction of a confidential facility in Cameron Parish, LA. The scope of work included analyzing the existing drainage conditions, exploring options to design a new conveyance system around the proposed facility, and a site visit along with reviewing information in the Proposed Channel Maintenance in Cameron Area Report prepared by a third party. Providence also conducted a topographic survey of the major existing drainage features in the project area. The main drainage feature will be consumed by the facility footprint and the proposed flood wall will impede flow and eliminate storage. Providence designed a larger conveyance system to accommodate the required conveyance and storage to maintain/improve the existing drainage conditions. The analysis used HEC-RAS 2-D modeling software to generate water surface elevations and flow rates that were monitored at critical points to compare existing flood waters and conveyance with the proposed reroute conveyance system. The most recent 2017 LiDAR imported from USGS website was used for the existing terrain along with a survey conducted by Providence. In addition, the corresponding soil survey and 2019 NRCS land cover map was downloaded to properly model the infiltration and runoff co-efficient. Proposed terrain grading was created within AutoCAD 2024 and then imported and tied into existing terrain within the HEC-RAS program. Existing structures, such as culverts and bridges, were modeled and for the proposed conditions these structures were either removed if they fell within the facility footprint or improved. In addition, structures were added to the new conveyance system that were deemed necessary, to convey the needed amount of stormwater effectively.</p> <p>The determination of the needed conveyance and structures was determined through an iterative process by comparing different HEC-RAS 2-D model outputs. Phase two of the project involves upgrades to an existing Cameron Parish Drainage District pump station that is critical to the overall project drainage basin.</p>	
Completion Date (Actual or Estimated):	Estimated Cost (in thousands):	
	Entire Project:	Work for which Firm was Responsible:
2025 (E)	N/A	\$238,080

TEC Professional Services Questionnaire

PROJECT NO. 7

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>JJ's Dirt & Dozer Drainage Impact Study Independence, LA</p> <p>JJ's Dirt & Dozer, LLC 33501 LA-43 Independence, LA 70443</p> <p>Justin Jacobsen 985-507-7677 jjsdirtanddozer@gmail.com</p>	<p>Providence assisted with the preparation of a solid waste permit application for a proposed Type III Solid Waste Disposal facility in Independence, LA. The scope of work included the preparation of the LDEQ Solid Waste Permit Application, engineering design and modifications, regulatory water permitting and USACE/Wetland permitting, miscellaneous survey services, and a drainage impact study (DIS) for compliance with Tangipahoa Parish ordinances.</p> <p>The DIS used HEC-RAS modeling software to assess the pre- and post-drainage conditions of the future final cap construction and to design any mitigation efforts needed to ensure the 25-year and the 100-year peak stormwater runoff is less than the existing condition per the Tangipahoa Parish code of ordinances. A topographic survey was conducted to assess the existing drainage structures and soil data and National Land Cover Data (NLCD) was imported for the model. A drone flight using aerial LiDAR was also conducted to capture other terrain features needed for the study that were not updated by the USGS. Per Tangipahoa Parish ordinance requirements, two 24-hour Soil Conservation Service (SCS) Type III storms were analyzed, with the 100-year being the design storm event. Using the 100-year storm event, an existing condition was created, and five existing structures were added into the base model. The DIS study was complete and a report was delivered to the client for submittal to the Parish.</p>	
Completion Date (Actual or Estimated):	Estimated Cost (in thousands):	
	Entire Project:	Work for which Firm was Responsible:
2024 (E)	N/A	\$104,900

TEC Professional Services Questionnaire

M. List all prior and/or ongoing litigation between Firm and Jefferson Parish. Please attach additional pages, if necessary.

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

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

Providence is a full-service engineering consulting firm with a team of experienced professional engineers and support staff possessing exceptional credentials. We have professionals with decades of experience solving engineering challenges unique to the Gulf Coast and South Louisiana region, as well as many young engineers fully trained in the latest technology and software available. Our firm and its predecessors have provided engineering and architectural services in Louisiana, Mississippi, and Texas for over 67 years, and we have provided engineering and design services for many sewer projects.



Providence has extensive experience in civil engineering, including design, permitting, environmental services, and construction administration for multiple types of projects including sewerage, utilities, roadways, and others. Our clients include many federal and state agencies as well as many Louisiana parishes. Our client list includes, but is not limited to, the following:



Providence has the stability, sustainability, and experience to support **Jefferson Parish** and provide immediate engineering, surveying, and/or environmental assistance as needed. With over 100 employees, our team of professionals represents a broad spectrum of disciplines, including civil, electrical, and environmental. The professionalism, technical abilities, and commitment to quality of our multidisciplinary team enable us to serve our clients with the highest degree of expertise and project support.

Professional Experience

Providence recognizes the importance of hiring the best professionals in the field to provide our clients with exceptional service. Key personnel proposed for this project are well known throughout Louisiana and have considerable experience working on sewer projects. They also have solid relationships with state and federal agencies potentially associated with this project.

The Providence team is eager and prepared to provide **Jefferson Parish** with high quality deliverables, such as drainage design plans, specifications, bid documents, construction administration, technical reports, and progress reports.



TEC Professional Services Questionnaire

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

Providence has ample staff to handle our current workload and complete projects under this contract in a timely manner. Our engineers and their support staff are continually developing innovative ways to achieve client goals while staying within budget and meeting critical deadlines.

We pride ourselves on consistently turning over high-quality deliverables in a timely manner. Our firm is also comfortable handling fast paced and/or controversial projects, along with those having tight deadlines.

Quality Assurance

For Providence, quality and attention to detail are paramount. Our quality assurance and quality control program ensures projects fulfill predetermined requirements, can be physically accomplished as designed in the specified time given, and bid reasonably within the engineer's estimate. Quality is further achieved by individuals performing work functions carefully and conforming their efforts to project requirements under standardized field and office procedures. Both the originator of the work and the person responsible for checking the work are identified. A series of reviews occurs at various project stages to determine if project development meets the project requirements.

Our firm can and will meet any reasonable period of performance required by this project. Moreover, Providence prides itself on delivering quality results that are on schedule and minimize or eliminate cost escalations and overruns through use of project work plans, proactive communication skills, and teamwork.

Past Performance

Providence has considerable experience in the planning, design, and construction administration of drainage projects. Below is a list of representative projects we have completed and/or are currently working on. These include those projects outlined in more detail in Section L of the Jefferson Parish Questionnaire:

- West Baton Rouge Diversion Canal Phase I, II, and III
- Ironton Aera Drainage System Improvements
- Confidential Client Drainage Engineering and Modeling (Two Proposed sites)
- Forest Avenue Drainage Improvements
- Delta Southern Drainage Impact Analysis
- Drainage System Improvements for Confidential Facility Construction
- JJ's Dirt and Dozer, Drainage Impact Study

Location

Providence employs a staff of engineers and support personnel with an office in Jefferson Parish at 2200 Veterans Boulevard, Suite 102, Kenner, Louisiana. In addition, we have neighboring offices in Baton Rouge and Houma to provide additional resources as needed. Our local presence in Jefferson Parish and extensive knowledge of the area brings added value to our team.

TEC Professional Services Questionnaire

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

Prior Success

Providence has previously provided extensive engineering services to Jefferson Parish. We look forward to continuing a relationship with Jefferson Parish. Below is a list of projects that Providence has provided engineering services for in Jefferson Parish:



- Hero Drainage Pump Station
- 18th St. Drainage - Metairie
- Upstream Drainage Improvements
- Hero Pump Station Switchgear
- New York Avenue Improvements (West Metairie Avenue To Van Buren Avenue), Paving, Drainage, Water, And Sewer Improvements
- Sewer Minisystems East of Harvey Canal
- Bainbridge Waterline
- Elmwood Pump Station No. 3 - Automatic Transfer Switch
- Sewer Minisystems East of Harvey Canal
- District 4 ISTEAs Beautification Projects Along I-10
- District 5 ISTEAs Beautification Projects - Median & Right of Way Planting @ Earhart, Clearview, Airline Park
- District 6 ISTEAs Beautification Projects
- Jefferson Highway Crossing at Upstream St. Permit Coordination
- Edenborn Drainage Improvements
- 18" Waterline from Veterans to 25th St. Ditch
- 18th St. Drainage Modification Re-work
- West Esplanade/No. Labarre Road Intersection Improvements
- West Metairie Avenue/Haring Road Intersection Improvements
- Installation and/or Removal of Fire Hydrants and Water Valves on the East Bank of Jefferson Parish
- Oakwood Smart Growth – Hector Avenue Improvements

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

Signature: *Aimee P. Killeen*
Signed: 6/19/2024

Print Name: Aimee' Killeen

Title: Company Manager

Date: 6/19/2024

Record of Signing

For
Name
Title

Aimee R. Killeen

Signed on 2024-06-19 15:29:25 GMT

Secured by Concord™
DocumentID: 02wt4DC0dVGCvly52d8xT3
SigningID: 02wt4DC0dVFrcOuOpN2meC
Signing date: 6/19/2024
IP Address: 203.116.208.61
Email: aimeekilleen@providenceeng.com



Signed with www.concordnow.com

**PROVIDENCE ENGINEERING AND
ENVIRONMENTAL GROUP LLC**

LICENSES AND CERTIFICATIONS



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 5/2/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Gary Jules Leonards
1746 Ridgeland Drive
Baton Rouge, Louisiana 70810

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Gary Jules Leonards		
License/Certificate Type - Number	Expiration Date	
PE.0030568	03/31/2025	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/7/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Andrew Eugene Bull
706 Idlewood Boulevard
Lafayette, Louisiana 70506-7044

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Andrew Eugene Bull		
License/Certificate Type - Number	Expiration Date	
PE.0047125	03/31/2025	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 6/14/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Murtada Haqi Mousa
1331 Seminole Avenue
Metairie, Louisiana 70005

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Murtada Haqi Mousa	
License/Certificate Type - Number	Expiration Date
PE.0047248	03/31/2025
Status: Active	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 6/6/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Ian Mathew Smith
270 Stoney Creek Avenue
Baton Rouge, Louisiana 70808

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Ian Mathew Smith	
License/Certificate Type - Number	Expiration Date
EI.0034373	09/30/2025
Status: Active	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/10/2023 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Todd Ashland Harris
12244 Faircrest Avenue
Baton Rouge, Louisiana 70809

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Todd Ashland Harris		
License/Certificate Type - Number	Expiration Date	
PLS.0005049	03/31/2025	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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