



T. BAKER SMITH
A CENTURY OF SOLUTIONS



ROUTINE ENGINEERING SERVICES FOR DRAINAGE PROJECTS IN JEFFERSON PARISH

Resolution 138811 | SOQ NO. 22-011

March 31, 2022

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

ROUTINE ENGINEERING SERVICES FOR DRAINAGE PROJECTS IN JEFFERSON PARISH Resolution 138811

B. Firm Name & Address:

T. Baker Smith, LLC
740 Phosphor Avenue, Suite B
Metairie, LA 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:

Kenneth Wm. Smith, PE, PLS, FACEC
Chief Executive Officer
985.223.9248
Kenneth.Smith@tbsmith.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.

Brian E. Moldaner, PE, MBA
Lead Professional, Engineering
504.608.9367
Brian.Moldaner@tbsmith.com

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

<u>40</u> Administrative	<u>1</u> Estimators	<u>5</u> Specification Writers
<u> </u> Architects (Licensed)	<u>1</u> Geologists	<u> </u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u>27</u> Civil Engineers	<u> </u> Interior Designers	<u>24</u> Project Managers
<u>5</u> Construction Inspectors	<u>1</u> Landscape Architects	<u> </u> Clerical
<u>10</u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u> </u> Electrical Engineers	<u>1</u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>11</u> Engineer Intern	<u>1</u> Environmental Engineers	<u>144</u> Other
<u>18</u> Professional Land Surveyors		<u>260</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

N/A

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

YES _____ NO _____ N/A

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
N/A		

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

260 (all personnel, primary and support, will be available to work 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. 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:

Brian E. Moldaner, PE, MBA

Lead Professional, Engineering

Project Assignment:

Lead Professional

Name of Firm with which associated:



Years' experience with this Firm:

11 years with this firm

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2011/Civil Engineering

Master of Business Administration/2019

Active registration: Year first registered/discipline:

LA PE.40075/2015/Civil

Other experience and qualifications relevant to the proposed Project:

Brian is a Professional Engineer and project manager skilled at coordinating projects involving various disciplines including engineering, surveying and environmental services. He performs project management duties that include service fee proposals, coordination of engineering design professionals and technicians, creating project management plans, coordinating sub-consultants, and coordinating survey and environmental field crews. As a Professional Engineer, Brian designs complete plan sets for civil projects, including site developments, roadways, drainage systems, bridges, pipelines, and utilities. He is engaged in all aspects of the project from conceptualization through construction and operation. During his schooling and prior to his employment with T. Baker Smith, Brian worked as a construction aide at his father's residential construction company in Jefferson Parish, LA, where the principles of a solid work ethic and pride in his work were established.

Project Experience

Colonial Club Pump Station Evaluation, Harahan, LA (Jefferson Parish Government) – Lead Professional. Provided QA/QC of modeling results and project exhibits/reports. Oversaw all aspects of the project including conceptual design, scheduling, survey, modeling, reporting and client communications. Ensured successful project outcome through management and technical guidance of the project team.

David Drive Corridor Improvements (West Napoleon Avenue to Veterans Boulevard), Metairie, LA (Jefferson Parish Government) – Project Manager, Project Engineer. As a subconsultant to Digital Engineering, performed engineering and project management services for all aspects of design of the drainage improvements associated with the reconstruction of the roadway corridor, including drainage system modeling to size culverts, placement of drainage structures, constructability review, utility conflict identification and general plan set preparation.

St. Charles West Bank Master Drainage Plan, St. Charles, LA (St. Charles Parish Government) – Lead Professional. Oversees all services including H&H modeling of the entire West Bank of St. Charles Parish, improvement identification/prioritization, improvement benefit analysis, improvement cost estimating, and report/presentation preparation.

Goodbee Pond, Goodbee, LA (St. Tammany Parish Government) – Lead Professional. Oversees all aspects of the delivery of a 54-acre stormwater detention pond including H&H modeling, pond design, scheduling, survey, management of key subconsultants, and client communications. Ensures successful project outcomes through strong management and technical guidance to the project team.

Distribution Center, Carencro, LA (Confidential Client) – Project Manager, Engineer of Record. Led design and construction administration of all civil scope including the 150-acre site design supporting the 1,080,000 square foot facility, offsite road improvements, 40 acres of site drainage detention ponds, 1,000 passenger vehicle parking spaces and 300 truck stalls. Managed and participated in public outreach to address local citizens' concerns regarding traffic. Coordinated and managed various subconsultants.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

William "Will" Bane, PE

Sr. Project Manager

Project Assignment:

Project Manager

Name of Firm with which associated:



Years' experience with this Firm:

1 years with this firm, 16 years with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2003/Civil Engineering

Master of Science/2005/Civil Engineering

Active registration: Year first registered/discipline:

LA PE.36709/2011/Civil

Other experience and qualifications relevant to the proposed Project:

William has 17 years of experience in design and construction of civil engineering projects and is a graduate of Tulane University and the University of Illinois Urbana-Champaign. He has successful history as a Project Manager having managed multifaceted projects including regional drainage projects, green infrastructure, watermain improvements and sewer collection system improvements, street construction, site development, as well as flood protection projects. He has served as designer for sewer, water and drainage projects from individual lots up to neighborhood scale. He has a depth of experience in design, construction estimates, scheduling, permitting, bidding and construction administration. He has successfully executed many multifaceted projects from problem identification through project completion. His experience includes large civil works for private developers and public municipalities.

Project Experience

Hagan-Lafitte Lafitte Drainage Upgrades and Green Infrastructure, New Orleans, LA (City of New Orleans) – Project Manager. Responsible for drainage, streets, green infrastructure, water, sewer and underground storage system for FEMA HGMP funded project to reduce flooding in the Lafitte neighborhood. The project proposed improvements to the storm network to increase pipe sizes and provide underground storage within a public park. Green infrastructure elements were included to recharge groundwater and reduce downstream capacity demands. A Benefit Cost Analysis justified the proposed project through flood reductions. Modifications and relocation of existing sanitary sewer system were required to provide room for drainage structures. The project required coordination between the engineer, Department of Public Works, and the Sewer and Water Board. Modeling results indicate a reduction in flooding during a 2-year storm of 14 inches.

West Esplanade Avenue Restoration Eastbound (Transcontinental to Causeway), Jefferson Parish, LA (Jefferson Parish Government) – Project Engineer. Responsible for the design of two-lane roadway reconstruction with concrete and asphalt sections. Multiple cross drains replaced and upgraded with connections to canal with outfall structures. Designed roadway replacement to maximize roadway comfort, cross-drain upgrades, sidewalk reconstruction, sidewalk drainage improvements and intersection upgrades.

Blue and Green Corridors, New Orleans, LA (City of New Orleans) – Project Manager. Responsible for regional stormwater retention, drainage upgrades, streets, green infrastructure, and underground storage system for HUD funded project to reduce flooding, increase health outcomes, and economic revitalization in the Gentilly neighborhood. The project proposed improvements to the neutral grounds of major streets in Gentilly and creation of new civic spaces at seven city owned lots. Water elements were proposed to allow for public amenities and interaction while realizing stormwater benefits. Green infrastructure elements were included to recharge groundwater and reduce downstream capacity demands. A Benefit Cost Analysis justified the proposed project through flood reductions. The project required coordination between many City agencies, multiple subconsultants and offices including many disciplines. Project included large public involvement component to educate residents and received check-in and buy-in at multiple stages of design.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Steve Synovitz, PE

Lead Professional, Engineering

Project Assignment:

QA/QC Manager

Name of Firm with which associated:



Years' experience with this Firm:

1 years with this firm, 41 years with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/1983/Civil Engineering

Active registration: Year first registered/discipline:

LA PE.35362/2010/Civil | TX PE.82426/1997/Civil

Other experience and qualifications relevant to the proposed Project:

Steve Synovitz is the engineering lead professional of the T. Baker Smith Aransas Pass, Texas office. He has over 42 years of management, design, and field experience on public and private sector projects. The scope of his experience includes water distribution systems, sanitary sewer facilities, street improvement projects, storm drains, retaining walls, grading plans, hydrology studies and hydraulic analyses.

Steve is a registered professional engineer in Louisiana, Texas, and California; has studied River Restoration & Design through Portland State University in Oregon; and is a NASDS certified open water scuba diver. He achieved a B.S. Degree in Civil Engineering at the University of Illinois in Champaign-Urbana.

Project Experience

Morris Sheppard Dam, Mineral Wells, TX (Brazos River Authority) – *Resident Engineer, Project Coordinator*. \$9 million renovation of this structure that forms Possum Kingdom Lake.

Storm Water Master Plan, Corpus Christi, TX (City of Corpus Christi) – *Senior Project Engineer*. Served the City for four years as a drainage consultant for the project.

Kostoryz Road Storm Drain Improvements Study, Holly Road to S.P.I.D., Corpus Christi, TX (City of Corpus Christi) – *Project Engineer*. This project consisted of the hydrologic and hydraulic analysis of the Kostoryz Road storm drainage system from Holly Road to S.P.I.D.

Storm Drain and Flood Control Channel Design, Southern California (Multiple Clients) – *Design Engineer*. Worked on various projects utilizing the Los Angeles County Flood Control District's Water Surface Pressure Gradient (W.S.P.G.) computer program.

Debris & Detention Basins, Los Angeles and San Bernardino Counties, CA (Multiple Clients) – *Design Engineer*. Layout and hydraulic design of debris and detention basins for various private sector client development projects.

Colton Detention Basin, Colton, CA (Private Developer) – *Design Engineer*. Hydrology and hydrograph analysis for detention basin in-flow, out-flow, and storage versus depth function. Also performed grading, inlet and outlet structure, and overflow spillway design.

Aransas National Wildlife Refuge, Matagorda Island, TX (Coastal Bend Bays & Estuaries Program - CBBEP) – *Design Engineer*. Worked with the CBBEP and the U.S. Fish & Wildlife Service on a project to enhance tidal circulation and water exchange at this refuge that supports Whooping Crane habitat.

Cole Park Floatables Study, Corpus Christi, TX (City of Corpus Christi) – *Design Engineer*. Worked with a study team to determine the source of and provide the City with recommended solutions to a problem of floatable debris and trash.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Doyle "Paul" Carroll, PE

Project Engineer

Project Assignment:

Project Engineer

Name of Firm with which associated:



Years' experience with this Firm:

5 years with this firm, 10 years with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2003/Mechanical Engineering

Bachelor of Science/2006/Civil Engineering

Active registration: Year first registered/discipline:

LA PE.33902/2008/Civil

Other experience and qualifications relevant to the proposed Project:

Paul Carroll is a Louisiana-licensed professional civil engineer with over 18 years of experience in stormwater drainage, levees, retention ponds, vertical curve roadway design, structural design, and project management of small to large projects. He is primarily responsible for providing advanced technical support and assisting the project manager in the development and design of project plans, specifications and estimates.

Project Experience

Colonial Club Pump Station Evaluation, Harahan, LA (Jefferson Parish Government) – Drainage Modeling Lead. Developed drainage model for 105-acre site in Jefferson Parish to study the feasibility of constructing a drainage pump station to discharge into the Mississippi River. SWMM model constructed for the existing condition and the post-project maximum water surface elevations to determine the proposed benefits or the project. Multiple alternatives for potential pump locations examined and recommendation was made to Jefferson Parish on next steps for conceptual layouts, servitudes, permitting, environmental impacts and estimated costs.

St. Charles West Bank Master Drainage Plan, St. Charles, LA (St. Charles Parish Government)– Project Technical Lead. Oversee development of H&H model development using 2D HEC-RAS modeling of drainage system in St. Charles Parish. This plan separates the parish into multiple watershed basins with modeling and drainage improvement recommendations specific to each basin. Project includes the creation of digital terrain models by merging survey data with lidar data within the drainage systems to develop elevation volume curves of the available storage as well as the flow characteristics of the basins.

Goodbee Pond, Goodbee, LA (St. Tammany Parish Government) – Project Drainage Lead. Assisted in determining survey data collection and modeling needs. Will lead technical design of proposed drainage improvements including proposed ponds in next phase of this project. This project includes drainage in the HWY 1077 area undergoing mostly residential development which is subject to frequent shallow flooding which needs improvement.

Bogue Falaya H&H Modeling and Regional Pond Location Study, Covington, LA (St. Tammany Parish Government) – Project Technical Lead. Provided project management, QA/QC review of HEC-RAS H&H model, and developed multiple conceptual pond sizing, location, and design options. Multiple iterations of the pond locations were used to evaluate and maximize benefits and lower water surface elevations. Worked closely with Parish in developing pond options. Project including providing updated survey information including channel cross sections, developing a H&H model, evaluating pond locations and scenarios and providing recommendations for ponds to achieve the greatest benefit. Determine optimum solution to regional retention within the Bogue Falaya watershed to minimize flooding impacts to existing residences, including conceptual design of several large regional ponds.

Monroe Street Drainage Improvements, Mandeville, LA (City of Mandeville) – Drainage Lead, Engineer of Record. Provided engineering services for the upgrade of existing pipe diameters, enclosure of existing open ditches, upgrade of new cross culverts, and miscellaneous subsurface drainage piping in the segments of Kleber Street and Monroe Street that experienced street flooding in Mandeville, LA. Provided analysis of the upstream drainage areas to size drainage system in project area appropriately.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher "Clark" Capone, PE

Project Manager

Project Assignment:

Project Engineer

Name of Firm with which associated:



Years' experience with this Firm:

1 years with this firm, 6 years with other firm

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2013/Civil Engineering

Active registration: Year first registered/discipline:

LA PE.43455/2019/Civil

Other experience and qualifications relevant to the proposed Project:

Clark Capone is a licensed professional engineer and is responsible for the design and management of various civil projects that include street restoration & reconstruction, water, sewer, drainage, levees, and site development. Clark's design responsibilities include H&H modeling, construction plan & specification preparation, cost estimating, and scheduling. Project management responsibilities include proposal development, creating project management plans, coordination of subconsultants, oversight of topographic surveys & geotechnical work, and construction administration.

Project Experience

Colonial Club Pump Station Evaluation, Harahan, LA (Jefferson Parish Government) – *Project Manager, Engineer of Record.* Performed data discovery & analysis, technical calculations, H&H modeling, benefit analysis, cost estimating, and report & exhibit production. Also, provided overall management for the project which included coordination of all work, managing multiple disciplines, leading team meetings, and client relations. Produced final H&H report detailing all the findings of the evaluation.

Goodbee Detention Pond, Goodbee, LA (St. Tammany Parish Government) – *Project Manager.* H&H study for the construction of a 54-acre stormwater detention pond. Provides overall management for the project including coordination of all work, management of sub-consultants, leading team meetings, maintaining project schedule & budget, and providing updates to the Owner.

2020-012-RBP – Eastbound West Esplanade Avenue Improvements (Transcontinental Dr. to Causeway Blvd.), Metairie, LA (Jefferson Parish Government) – *Project Manager, Engineer of Record.* Ongoing roadway restoration project. Responsible for design and overall project management. Coordinated and oversaw topographic survey and geotechnical work. Project includes improvements to asphalt and concrete pavement including mill & overlay, concrete panel replacement, full depth asphalt repair, and full depth concrete repair. Other improvements include turn radius widening, cross drain upgrades, and concrete canal outfall structures.

St. Charles West Bank Master Drainage Plan, St. Charles, LA (St. Charles Parish Government) – *Project Engineer.* Assisted in the H&H modeling of the entire West Bank of St. Charles Parish, improvement identification/prioritization, improvement benefit analysis, improvement cost estimating, and report/presentation preparation.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

TJ Stokes, PE

Lead Professional, Utility Engineering

Project Assignment:

SUE

Name of Firm with which associated:



Years' experience with this Firm:

1 year with this firm; 12 years with other firm

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2009/Industrial Engineering

Active registration: Year first registered/discipline:

LA PE.40079/2015/Industrial Engineering

Other experience and qualifications relevant to the proposed Project:

TJ has over 13 years' experience in successfully managing numerous SUE projects specializing in transportation and roadway projects. As the Lead Professional for Utility Engineering, he is currently overseeing the completion of DOTD and MDOT retainer contracts along with numerous other public and private client projects. He has thorough knowledge of the Subsurface Utility Engineering standards listed in CI/ASCE Standard 38-02 and is familiar with all SUE technologies and equipment, including but not limited to, ground penetrating radar (GPR), hydro/air vacuum excavation, and numerous other types of geophysical locating equipment.

Project Experience

Safety Widening of Roddy Road, US 61 to LA 935, Ascension Parish, LA (Ascension Parish Government) – SUE Engineer.

Provided Subsurface Utility Engineering and R/W Mapping for the for the Roddy Road Safety Widening from US 61 to LA 935 as part of the Move Ascension Program. Project included geometric improvements to be made at the LA 429 intersection including Left-turn bays on the EB, WB and SB approaches and right-turn bays at the NB and SB approaches; Geometric improvements at LA 935 to include Left-turn bays at the EB, NB and SB approaches, right-turn bays at the NB approach; replacement of the bridges over New River and Bayou Narcisse.

LA 3127 Extension: LA 70 to LA 1, Ascension Parish, LA (Ascension Parish Government) – SUE Engineer. Performed Subsurface Utility engineering (SUE) QL B-A in accordance with CI/ASCE 38-02 for all utilities affected by the project alignment. Level A test holes were conducted on 21 underground pipelines which either crossed the route or were within the Right of Way of the roadway. Subsurface utilities designated as part of the SUE services included water mains, sewer force mains, sewer effluent lines, pipelines carrying various products and ranging from 6" to 30" in diameter, buried electrical services, buried telephone, buried fiber optic telephone, fiber optic television, and gas mains. The project is proposed by Ascension Parish as the first phase of a 4-lane divided highway to the south of the City of Donaldsonville, LA.

Harrison Avenue Improvements, US 190 - LA 59, St. Tammany Parish, LA (St. Tammany Parish Government) – SUE Engineer/Project Manager. Performed subsurface utility engineering and related services scope of work necessary to support the design of the widening of Harrison Ave. from US 190 to LA 59 in Covington, LA for St. Tammany Parish. The improvements along Harrison Ave. include approximately 13,200 feet of roadway widening along existing alignment including the installation of a raised median, construction of single lane roundabouts at Marigold Drive and Falconer Drive and various features such as bulb outs and R-CUT intersection treatments.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Lawrence "Larry" Toups, IV, PE

Construction Engineering & Inspection Group Leader

Project Assignment:

Construction Engineering and Management

Name of Firm with which associated:



Years' experience with this Firm:

3 year with this firm; 16 years with other firm

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2002/Civil Engineering

Active registration: Year first registered/discipline:

LA PE.35155/2009/Civil Engineering

Other experience and qualifications relevant to the proposed Project:

Lawrence is a construction engineering and inspection group leader and project manager with 19 years of experience conducting, leading, and managing infrastructure inspection, construction, and rehabilitation projects. He has served as Resident Engineer for major public and private infrastructure projects where he has been charged with ensuring compliance with the owner's plans and specifications and completion of the project in a timely manner. He has also conducted construction monitoring and inspection for numerous bridge replacement and rehabilitation projects and other structures of varying types.

In addition, he has served as Resident Engineer for several major LADOTD and railroad bridge projects where he has been charged with ensuring compliance with the owner's plans and specifications and completion of the bridge construction and repairs in a timely manner, and experience conducting, leading, and managing complex and movable bridge inspection, construction, and rehabilitation projects.

Project Experience

2017-032-RBP – West Esplanade Avenue Restoration Eastbound, Tartan Drive To Haring Road, Jefferson Parish, LA (Jefferson Parish Government) – *Construction Engineering and Inspection Group Leader*. Led the project to rehabilitate a ½-mile section of West Esplanade Avenue. In this role, he advised the project manager in supervising the technical effort of the full-time construction inspectors subcontracted through Hartman Engineering. He also monitored the staffing and scope of the construction services provided for the owner on site. He reviewed submittals and RFIs related to the construction of the roadway and drainage structures for compliance with the plans, specifications, and applicable design guidelines. He also coordinated with contractors, the owner's representatives, and other technical personnel to enable the roadway and drainage structures to be constructed according to the contract documents and within time limitations and budget.

Cyprien Pump Station, Lafourche Parish, LA (Lafourche Parish Government) – *Construction Engineering and Inspection Group Leader*. Advised the project manager in supervising the technical effort of the full-time construction inspectors on site. He also monitored the staffing and scope of the construction services provided for the owner on site. He reviewed submittals and RFIs related to the construction of the pump station for compliance with the plans, specifications, and applicable design guidelines. He developed pile driving criteria based on the geotechnical investigation in order to assist the contractor in constructing a suitable pile foundation for the structure. He also coordinated with contractors, the owner's representatives, and other technical personnel to enable the pump station to be constructed according to the contract documents and within time limitations and budget.

Little Bayou Black Pump Station, Houma, LA (Terrebonne Parish Consolidated Government) – *Construction Engineering and Inspection Group Leader*. Led the project to construct a new pump station. In this role, he advised the project manager in supervising the technical effort of the full-time construction inspectors on site. He also monitored the staffing and scope of the construction services provided for the owner on site. He reviewed submittals and RFIs related to the construction of the pump station for compliance with the plans, specifications, and applicable design guidelines. He also coordinated with contractors, the owner's representatives, and other technical personnel to enable the pump station to be constructed according to the contract documents and within time limitations and budget.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Philip Chauvin

Sr. Construction Manager

Project Assignment:

Construction Administration

Name of Firm with which associated:



Years' experience with this Firm:

15 years with this firm; 11 years with other firms

Education: Degree(s)/Year/Specialization:

Bachelor of Science/1995/Construction Management

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Philip Chauvin has spent his career in construction management. His experience includes coordinating construction projects to ensure they are built to specifications. He also takes part in pre-bid site visits. Philip has the overall responsibility for the quality of construction projects for which TBS is providing construction administration and management. He supervises the TBS construction project representatives and provides technical support to them.

Project Experience

Monroe Street Drainage Improvements, Mandeville, LA (City of Mandeville) – Construction Manager. Provided construction administration services including: coordinating pre-construction meeting, reviewing daily reports and contractor pay-applications, making periodic site visits, verifying final quantities and preparing final change order and as-built plans.


Brisbane Court Roadway Improvements, Slidell, LA (City of Slidell) – Construction Manager. Provided construction administration services including: coordinating pre-construction meeting, reviewing daily reports and contractor pay-applications, making periodic site visits, verifying final quantities and preparing final change order and as-built plans.

1-1B Pump Station, Terrebonne Parish, LA (Terrebonne Parish Consolidated Government) – Construction Manager. TBS' scope of services included assisting with bids (advertisement, tabulation and award), issuing notice-to-proceed, conducting the pre-construction meeting; reviewing shop drawings, submittals, and pay requests; and facilitating monthly site progress meetings during dredging activities along with addressing land owner questions and complaints. Supervised onsite project representatives on a daily basis.

Construction-Phase Services for Short Cut Canal Dredging Project, Terrebonne Parish, LA (Terrebonne Port Commission) – Construction Manager. The Short Cut Canal Dredging project involved maintenance dredging of approximately 2,500 linear feet of canal that connects the Terrebonne Port slip to the Houma Navigational Canal. The project was designed for hydraulic or mechanical dredge. TBS provided construction engineering services that included bid assistance (advertisement, tabulation and award), issuing notice-to-proceed, preconstruction conference, onsite construction observation and reporting, processing change orders, and approving payment requests for dredging 110,000 cubic yards from the canal.

New Cut Dune and Marsh Restoration Project TE-37, Terrebonne Parish, LA (LDNR) – Construction Manager. The purpose of the project was to elevate and widen New Cut, which is the breach between East and Trinity Islands in the Isles Dernieres chain, and thus close the breach. The Isles Dernieres shoreline is exhibiting a pattern of fragmentation and disintegration. The project created barrier island dunes and marsh habitat, and lengthen the structural integrity of the eastern Isles Dernieres by restoring the littoral drift and adding sediment into the near-shore system. TBS received a task order under its current general engineering and surveying assistance contract to provide quality assurance and quality control during construction by providing construction administration and onsite project observation.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Lisa Osborne <i>Senior Project Designer</i>
Project Assignment:
Project Technician
Name of Firm with which associated:

Years' experience with this Firm:
7 years with this firm; 33 years with other firms
Education: Degree(s)/Year/Specialization:
Coursework for Civil Engineering Studies/1980
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Lisa Osborne is a senior project designer at TBS with over 40 years of CAD experience in civil, transportation, structural, and mechanical engineering. She has extensive experience using MicroStation and Autocad for civil, roadway, and structural projects. Lisa is experienced in using InRoads for developing horizontal and vertical alignments including generating templates to develop roadway sections and earthwork quantities. She utilizes InSurvey for importing survey features into the design model and to develop the existing surface. She has prepared complete set of drawings for construction on numerous civil and structural projects. She has completed the CAD conform training provided by LADOTD and is proficient in LADOTD's standards of roadway plan preparation. She is skilled in all current versions of Microstation and Autocad and has completed a 40-hour program for ArcGis through Penn State Online Courses.</p> <p>Project Experience</p> <p>2017-032-RBP, West Esplanade Avenue Restoration Eastbound, Tartan Drive To Haring Road, Jefferson Parish, LA (Jefferson Parish Government) – <i>Senior Project Designer</i>. Developed the horizontal and vertical geometry as per the design engineer specifications. Created all necessary documents for this project including typical sections, plan and profile, joint layout, subsurface drainage and graphical grades.</p> <p>David Drive Corridor Improvements (West Napoleon Avenue to Veterans Boulevard), Metairie, LA (Jefferson Parish Government) – <i>Senior Project Designer</i>. Developed Civil3d plans for the design drainage along the corridor. Verified capacity and flows for the drainage system for the engineer. Prepared all associated plans including details for the submittal.</p> <p>Monroe Street Drainage Improvements, Mandeville, LA (City of Mandeville) – <i>Senior Project Designer</i>. Performed topographic survey data processing and deliverable preparation, preparation of construction plans for drainage improvements, including subsurface pipe, inlets, channel improvements, utility relocations and prepared as-built plans for local drainage improvement project designed to lower water surface elevations during rainfall events.</p> <p>Sanitary Sewer Treatment Plant, Thibodaux, LA (City of Thibodaux) – <i>Senior Project Designer</i>. Performed topographic survey data processing and all construction documents preparation for a new 2 MGD sewer treatment plant for the City of Thibodaux. The project included extensive excavation and embankment including excavation for large settlement and oxidation ponds and embankment and earthen surcharge for plant construction. Detailed earthwork cut/fill analysis, cross sections and earthwork quantity estimations were performed to help provide an efficient and cost effective design.</p> <p>S.P. H.012812 – US 190 at Northshore and Camp Villere, St. Tammany Parish, LA (LADOTD) – <i>Senior Project Designer</i>. Assisted with roadway geometric design including H&V alignment, performed roadway designer activities including roadway corridor modeling of roadway surface, open ditches, channels and intersections utilizing Inroads and roadway plan preparation for the new roundabouts. Prepared cross sections and performed earthwork analysis and computations.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Katie Anders

Project Technician

Project Assignment:

Project Technician

Name of Firm with which associated:



Years' experience with this Firm:

5 years with this firm; 3 years with other firms

Education: Degree(s)/Year/Specialization:

Associate of Science/2014/Drafting & Design

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Katie is a project technician at TBS with 8 years of experience in drafting and design. Katie provides technical support by calculating, analyzing, organizing, coordinating, and researching information, preparing drawings, and generally providing assistance with any other tasks necessary to complete the project. Her essential functions include the following: review, analyze and reduce raw data from field operations; prepare designs, drawings, and calculations for the project; prepares deliverables as directed; completing tasks according to the project schedule; assisting other project teams or departments with technical, field, or other duties as needed or requested; and performing additional duties as assigned or expected to ensure that value is being added to all projects by exceeding clients' expectations.

Project Experience

Bella Ridge South Apartments, Harahan, LA (Favrot & Shane Architects) – Project Technician. Responsible for providing drafting and design assistance for the civil site design for the approximately 10-acre, 240-unit expansion of the existing Bella Ridge North site. This project is currently under construction.

Drakes Landing Apartment Complex, Baton Rouge, LA (LDG Development) – Project Technician. Responsible for providing drafting and design assistance for the civil site design of the 25 acre site located on Ardenwood Dr. in Baton Rouge, LA

Acadia Greenbrier Hospital Expansion, Covington, LA (ALPA Construction) – Project Technician. Responsible for providing drafting and design assistance for the civil site design of the approximately 12-acre site for the proposed expansion of the existing facility. Responsibilities included preparation of permitting and construction plans, including site, grading, drainage, pavement, utility and detail sheets. This design-build project is currently under construction. This design-build project is currently under construction.

Acadia Longleaf Hospital Expansion, Alexandria, LA (ALPA Construction) – Project Technician. Responsible for providing drafting and design assistance for the civil site design of the approximately 8-acre site for the proposed expansion of the existing facility. Responsibilities included preparation of permitting and construction plans, including site, grading, drainage, pavement, utility and detail sheets. This design-build project is currently under construction. This design-build project is currently under construction.

Dependable Storage Facility, Baton Rouge, LA (Woodward Design+Build, LLC) – Project Technician. Responsible for providing drafting and design assistance for the civil site design of the approximately 3-acre commercial site. Responsibilities included preparation permitting and construction plans, DOTD permitting plans, drainage exhibits and cut/fill earthwork calculations. This project is currently under construction.

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:

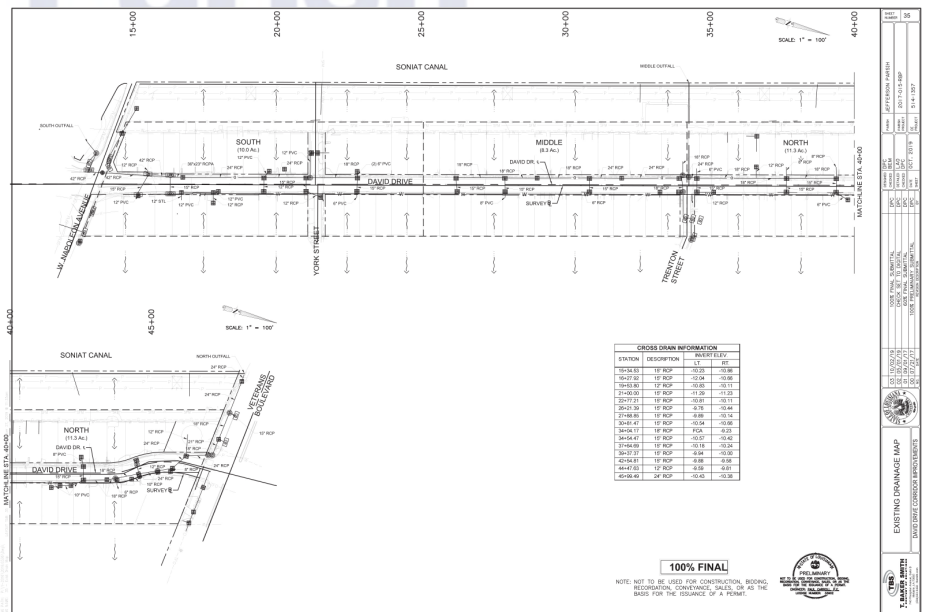
**David Drive Corridor Improvements
(West Napoleon Avenue to
Veterans Boulevard)
Jefferson Parish, LA**

Jefferson Parish Engineering Dept.
Mark Drewes, PE, Director
1221 Elmwood Pk. Blvd., Suite 802
Jefferson, LA 70123
504.736.6500

Nature of Firm's Responsibility:

T. Baker Smith was selected by Jefferson Parish as a subconsultant to Digital Engineering & Imaging Inc. for the David Drive Corridor Improvements (West Napoleon Avenue to Veterans Boulevard).

TBS was responsible for all tasks for the Drainage Design associated with the project that include: Inlet Spacing and Subsurface Drainage - design of the required roadway drainage collection system and subsurface drainage system, provide the sizes and locations of the required system and indicate these on a drainage layout plan; provide drainage plan/profile drawings utilizing the improved conditions prepared by the prime consultant; provide existing drainage map; provide proposed drainage map; provide hydraulics report; provide summary of drainage structures; provide specifications for non-standard items; provide quantity takeoffs and cost estimate. TBS also performed a utility conflict review and provided found conflicts to the prime consultant for resolution. The project is currently under construction.



Completion Date
(Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

2021 (actual)

\$7,200,000 (construction)

\$58,000

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. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Eastbound West Esplanade Avenue Restoration (Tartan Drive to Haring Road) Jefferson Parish, LA</p> <p><i>Jefferson Parish Government Mark Drewes 1221 Elmwood Pk. Blvd, Suite 802 Jefferson, LA 70123 504.736.6500</i></p>	<p>The eastbound lanes of West Esplanade Avenue between Tartan Drive and Haring Road were in less-than-desirable condition due to general wear and tear, various patch repairs and the overall age of the roadway. Jefferson Parish contracted TBS to restore and rehabilitate the roadway to like-new condition.</p> <p>TBS completed design of the improvements and coordinated the public bid of the project in collaboration with the Road Bond Program Manager and Jefferson Parish. TBS provided Construction Administration services throughout the construction and closeout of the project and also provided Resident Inspection services for the project through a subconsultant. TBS is currently completing Record Drawings and assisting the Parish and Road Bond Program Manager with final project closeout tasks.</p> <p>In addition to designing the general removal and replacement of 9-inch concrete along the half-mile roadway segment, the project includes roadway profile adjustments to optimize driver comfort, upgrade of three cross drains to 42-inch RCP, heavy duty curbing, adjustment of various catch basins and manholes, ADA compliant handicap accessible curb ramps and sidewalk improvements, driveway removal and replacement, median drainage improvements, and relocation of street lighting.</p> <p>In addition to the above, TBS also performed the topographic survey of the site and coordinated with the Jefferson Parish Engineering Department who designed significant waterline improvements as part of the project. TBS has submitted Preliminary Plans to the Owner and is currently awaiting authorization to move forward with final design.</p>	
		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 (actual)	\$1,800,000 (construction)	\$144,000 (engineering & surveying fees)


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. 3							
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:						
<p>Colonial Club Ditch Pumping Station Survey Jefferson Parish, LA</p> <p><i>Jefferson Parish Government John O'Connor, PE 1221 Elmwood Park Blvd., Suite 906 Jefferson, LA 70123 504.736.6833</i></p>	<p>TBS evaluated the feasibility of constructing a 100 CFS capacity drainage pump station along an existing drainage canal located on a former golf course. The former golf course site is approximately 88-acres and is located adjacent to the Mississippi River. The golf course is being redeveloped from an open green space to a site that will include commercial properties, residential properties, and a stormwater management area. Additional improvements evaluated included enclosing the existing drainage canal and rerouting the drainage to a new outfall structure in the Mississippi River. TBS evaluated two alternative locations for the station along the drainage canal and compared the benefits and costs associated with each alternative. Professional Services provided for this evaluation include Topographic Survey, Data Collection, Hydrologic and Hydraulic (H&H) modeling and report, Conceptual Design and Layout, Environmental Analysis, and Cost Estimating.</p> <p>TBS collected Topographic Survey information within the project area for use in the H&H modeling, conceptual layouts, and conceptual design. Data Collection consisted of identifying and collecting all available existing information for use in the evaluation including previous drainage studies, as-built information, and performing site visits.</p> <p>H&H modeling was performed using the PCSWMM software package. PCSWMM is a dynamic hydrology-hydraulic simulation model used to simulate runoff quantity from areas and determine how this runoff behaves as it is transported through the drainage network. For the modeling effort, TBS utilized Jefferson Parish's East Bank H&H model as the base model. This model covers drainage for the entire east bank of Jefferson Parish. TBS updated the model parameters within the project area to reflect the newly collected data and the change in land use. The following models were produced: the Existing Conditions model, the Alternative #1 model, and the Alternative #2 model. The results from the Existing Conditions model formed a baseline to compare against the two post-improvement models.</p> <p>TBS performed a Conceptual Design to select an appropriate pump for the application and to size the wet well. The total head loss of the system was calculated, and a pump was selected based on this calculation and the desired station capacity. The wet well was sized to maximize efficiency and minimize the number of pump start-ups. To determine impacts to landowners by the proposed improvements, TBS produced Conceptual Layouts for both alternatives depicting access (utility & site) to the station, layout on the pump station components (generator, wet well, trash screen, control panel), the piping network, and the outfall location. Environmental Analysis was performed to determine potential permits and impacts to the environment. Cost estimates were generated to compare the costs between the two alternatives. TBS produced a comprehensive report detailing all the tasks performed during the evaluation and based on the results of the entire evaluation, TBS provided recommendations to the owner.</p>						
 							
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th colspan="2" style="text-align: center; padding: 5px;">Estimated Cost:</th> </tr> <tr style="background-color: #d3d3d3;"> <th style="width: 50%; padding: 5px;">Entire Project:</th> <th style="width: 50%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">2021 (actual)</td> <td style="text-align: center; padding: 5px;">\$55,000</td> </tr> </tbody> </table>		Estimated Cost:		Entire Project:	Work for which Firm was Responsible:	2021 (actual)
Estimated Cost:							
Entire Project:	Work for which Firm was Responsible:						
2021 (actual)	\$55,000						

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. 4						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Lake Villa Pond Jefferson Parish, LA</p> <p><i>Jefferson Parish Engineering Dept. Mark Drewes, PE, Director 1221 Elmwood Pk. Blvd., Suite 802 Jefferson, LA 70123 504.736.6500</i></p>	<p>TBS has performed various consulting services to improve the Lake Villa Pond ecosystem and to also provide recreational enhancements to the site. In the conceptual design stage of the project, TBS prepared options for the site and provided identifying features, a conceptual rendering of the site options, and a conceptual construction cost of each site option. Goals of the project include restoration of the pond and marsh, water quality improvement, recreational site improvements and general site improvements.</p> <p><u>Lake Villa Pond Conceptual Options Included:</u></p> <p>Option A – Channelized Inflow consisting of two phases: Phase 1) Hydraulic Improvement and Pond Terracing/Channels including breakwater to protect inlet channel; and Phase 2) Recreational Improvements including walking path with pedestrian bridge over inflow channel, bench amenities, and shade tree landscaping.</p> <p>Option B – Subsurface Inflow Structure (box culverts) consisting of two phases: Phase 1) Hydraulic Improvement and Pond Terracing/Channels; and Phase 2) Recreational Improvements including a walking path, bench amenities, and shade tree landscaping.</p> <p>TBS' conceptual design deliverables were leveraged to identify and/or secure funding from the Flood Protection Authority and other agencies.</p> <p>TBS was then contracted to move forward with full design and permitting of the improvements. In this on-going effort, TBS has completed topographic/hydrographic surveys of the site, wetland delineation of the pond (including submission to USACE for jurisdictional determination), and design development of the recreational improvements. Under TBS direction, coastal modeling and geotechnical services are underway.</p> <p>Upon completion of the coastal modeling and geotechnical services, TBS will move forward with designing the plans and specifications for both the hydraulic and recreational improvements to the pond and surrounding site. TBS will also fully permit the project through all applicable agencies and provide bidding, construction administration and record drawing services.</p> <div style="text-align: center;">  </div>					
<p style="text-align: center;">Completion Date (Actual or estimated):</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%; padding: 5px;">Entire Project:</th> <th style="width: 70%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> <tr> <td style="text-align: center; padding: 5px;">\$47,000</td> <td style="text-align: center; padding: 5px;">\$47,000</td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	\$47,000	\$47,000
Entire Project:	Work for which Firm was Responsible:					
\$47,000	\$47,000					
Ongoing						

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. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>14th Street Drainage Improvements Galveston, TX</p> <p><i>City of Galveston, Texas Dudley Anderson 823 Rosenburg Street, Galveston, TX 77551 409.797.3557</i></p> 	<p>The 14th Street Drainage Improvement Project is the first of a series of infrastructure projects to mitigate both coastal and stormwater flooding. The project scope called for an overall collaborative GIS solution to share data between engineering contractors and the City of Galveston. The GIS solution monitored design changes and tracked overall project progression in a near real-time manner. The GIS solution combined multi-beam hydrographic data for a cruise ship dock along with Lidar data of the project area.</p> <p>The existing subsurface drainage system in the city of Galveston generally drains from Seawall Blvd. to Galveston Bay. Much of the existing system was designed for a 2-year design storm frequency, which was increased to a 25-year design storm following Hurricane Harvey in 2017. The purpose of the 14th Street Pump Station Project is to mitigate flooding attributed to an undersized storm drain collection system often compounded by high tidal conditions in Galveston Bay. The pump station will allow the drainage areas for the 14th, 15th, and 16th Street outfalls to be diverted to the proposed 14th Street Pump Station during high tide conditions, reducing the maximum water surface elevations and draining the system more efficiently for said conditions.</p> <p>The project demonstrates our ability to perform H&H modeling for various storm events within public infrastructure and a port facility as well as the civil engineering for designing a gravity drainage system and a forced drainage system.</p> <p>In addition to the above, TBS performed project management, environmental permitting, civil site design, and structural design for the City of Galveston. TBS will provide construction administration and value engineering services throughout the construction and closeout of the project.</p> 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$40,000,000	\$2,392,459

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. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>St. Charles Parish Master Drainage Plan St. Charles, LA</p> <p><i>St. Charles Parish Government</i> <i>Miles Bingham</i> <i>mbingham@stcharlesgov.net</i> <i>985.331.2624</i></p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>SCP Basin Status</p> <p> Complete</p> <p> Ongoing</p> </div> </div> <div style="margin-top: 10px;">  </div>	<p>TBS was selected to support St. Charles Parish Government in the development of a Master Drainage Plan (MDP). The MDP analyzes the existing gravity and forced drainage networks within the West Bank of St. Charles Parish and provides recommendations for improvements to these systems aimed towards mitigating flooding for the existing conditions and planning for surface water runoff from future development. The West Bank of St. Charles Parish is comprised of approximately 21,000 acres of land (excluding marsh/ swampland) and consists of eleven primary drainage basins, which will be analyzed separately in phases based upon their locations and similarities. The improvements recommended for each basin will be prioritized using multiple factors including implementation time, cost, and anticipated benefit to their respective area, which when compiled into the MDP, can be utilized to prepare a comprehensive Capital Improvements Program.</p> <p>As part of the phased approach for this analysis, TBS has conducted several data gap analyses to identify where additional information is needed for a complete drainage plan for individual basins. TBS used the data provided by the Parish, publicly available data, and supplemental data collected following the data gap analysis to develop hydrologic and hydraulic models of the watersheds in the Phase I region. These watersheds include Hahnville 1, Hahnville 2, and Ama-Sellers. TBS has prepared individual reports that summarize the results of the modeling for each watershed. Included in each of these reports are conceptual level cost estimates, project priority lists, and other recommendations for implementing the proposed improvements included in the proposed conditions modeling. The detailed reports developed by TBS for each watershed will be used to compile an overall Master Drainage Plan for the West Bank of St. Charles Parish. Final deliverables for the project will also include GIS data generated as part of the H&H analyses.</p> <p>The analyses for Phase I have been completed, and the analyses for Phases II (Luling and Luling 310) and IIIA (Mimosa-Willowdale) have commenced. The work products completed for Phase I were used to develop a template for the subsequent analyses and reports. This template has been reviewed and approved by the Parish. Upon completion of Phases II and IIIA, TBS will conduct studies for Phases IIIB (Des Allemands, Paradis, and Sunset) and IV (Killona and Taft).</p> <p>In addition to completing the H&H modeling and reporting tasks, TBS has also participated in community outreach efforts with the Parish. In late 2020 a Citizens' Drainage Committee was formed by the Parish. TBS has attended these events to ensure that the scope of drainage issues is understood as described by those experiencing them first-hand. As part of the Phase I analyses, TBS has also reviewed the updated drainage policies implemented by the Parish and has provided insight for future modifications. Lastly, as requested by the Parish, TBS has prepared summary information of the completed Phase I analyses for distribution and presentation to sitting council members. This information describes the potential construction phasing and cost information for all proposed improvements.</p>	
<p style="text-align: center;">Completion Date (Actual or estimated):</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	N/A	\$577,000

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. 7

Project Name, Location and
Owner's contact information:

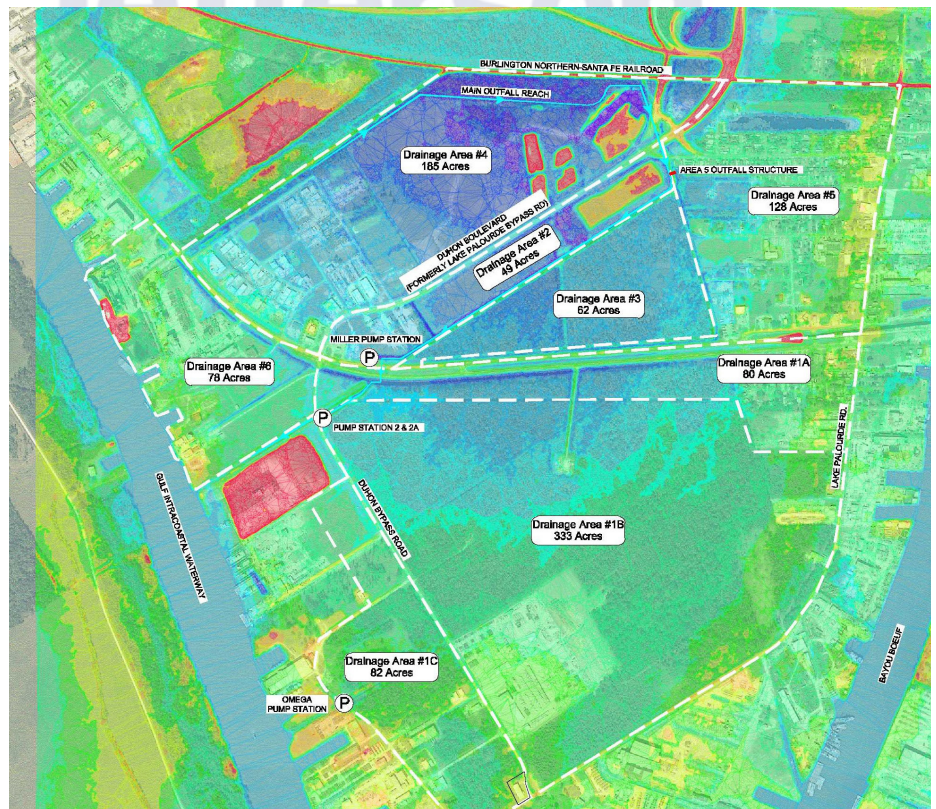
**Amelia 2 & 2A Drainage Study
St. Mary Parish**

*St. Mary Parish Government
500 Main Street
Franklin, LA 70538
Henry C. LaGrange
337.828.4100*

Nature of Firm's Responsibility:

TBS was hired to prepare an H&H study on the 1,000-acre basin to determine the cause of flooding to areas on the north side of LA 182 in Amelia. Existing conditions showed areas north of LA 182 being pumped into Pump Station 2 & 2A before being discharged into the GIWW. TBS made recommendations for proposed channel and culvert capacity improvements based on a proposed conditions model. Recommendations for Phase I included replacing an existing 24" culvert with a single 7' x 7' box culvert and removing the Miller Pump Station to eliminate the double pumping within the basin. Channel improvements are also recommended for Phase I. Phase II funding will include the addition of a second 48" pump to Pump Station 2 & 2A, adding a larger trash screen and timber bridge, and extending channel improvements to the sump.

Phase II of the project consisted of Final Design and Permitting phase for the project. The 2 & 2A Pump Station and Drainage Improvements Project has obtained all permits and full funding from FEMA and is currently in construction.



Completion Date
(Actual or estimated):

Ongoing

Estimated Cost:

Entire Project:

\$2,400,000

Work for which Firm was
Responsible:

\$496,572

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. 8

Project Name, Location and
Owner's contact information:

Eastside Drainage Improvements Lafourche Parish, LA

Lafourche Parish Government
Archie Chaisson, III
parishadministrator@lafourchegov.org
985.446.8427

Nature of Firm's Responsibility:

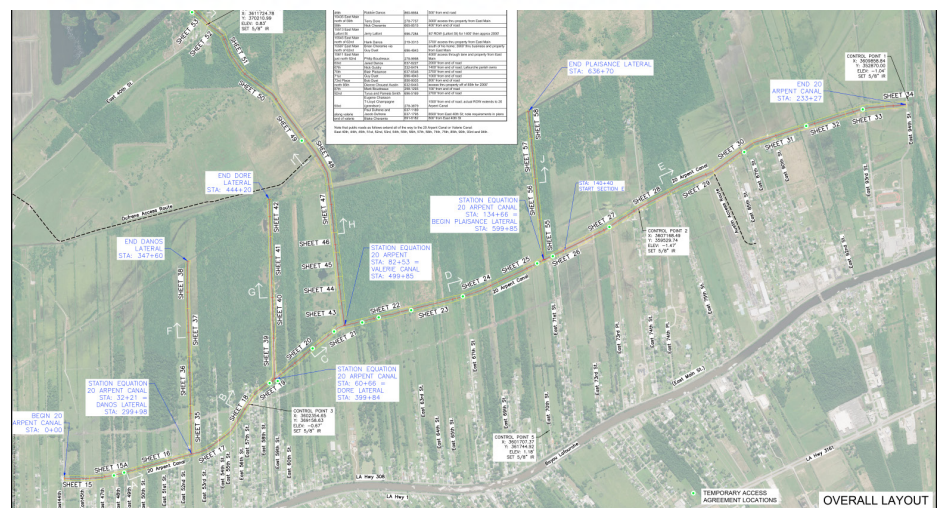
TBS provided the necessary professional services to design, survey and permit the solution to the current drainage problems along the 20 Arpent canal on the eastside of Bayou Lafourche in the southern part of Lafourche Parish. This included replacement of culverts and cleaning of existing canals and new canals. Also, included is the managing of the required construction and contacting of property owners for permission to construct the project.

An existing unsteady HEC-RAS model was updated with raw survey data including new canals, updated culvert crossings, updated bridge crossings, and many new cross-sections. A proposed model was then created to determine which improvements would be necessary to improve the maximum flood depth such that client goals were achieved.

TBS obtained a grant totaling approximately \$4.5 million to help fund its construction which will include a future pump station not yet under design.

Services Provided:

- Topographic Survey & Aerial Photography
- Right of Way Surveying and ROW Plats
- Hydraulic Modeling and Coordination
- Grant Application Assistance
- Engineering Design - Civil
- Construction Administration Services
- Construction Plans and Specifications
- Wetland Delineation



Completion Date
(Actual or estimated):

Estimated Cost:

Entire Project:

Work for which Firm was Responsible:

Ongoing

\$612,000

\$612,000

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. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>North Lafourche Levee District Pump Station Monitoring System Lafourche Parish, LA</p> <p><i>North Lafourche Conservation, Levee, and Drainage Dist.</i> <i>P.O. Box 309</i> <i>Dwayne Bourgeois</i> <i>dwayneb@nlcldd.com</i> <i>985.537.2244</i></p> 	<p>The North Lafourche Levee District (NLLD) works to improve drainage and enhance flood protection for approximately 65,000 residents north of the Intracoastal Waterway in Lafourche Parish, Louisiana, serving approximately two-thirds of the parish's population. The District includes over 250 miles of levees and drainage canals and over 40 pump stations that comprise a network of 28 forced drainage systems in north Lafourche.</p> <p>Managing pump station infrastructure has been an ongoing challenge as the process depends upon human intervention and Parish personnel. The lack of real-time water level data and engine-run status readily available led to a series of challenges and issues. One of the primary issues involved over-pumping forced drainage areas as pumps can be damaged and the integrity of levee systems compromised. Not only does this cause unnecessary expense for the Parish, but it also causes erosion and subsidence of the land in these forced drainage areas. Given these issues, NLLD saw the need for a monitoring system that allows them to have the critical data necessary to manage the District properly.</p> <p>TBS worked with NLLD to design, build, and install a monitoring system, solving the data problem. To modernize the pump station infrastructure, TBS was required to design a physical self-contained, self-powered, weatherproof, and internet-connected monitoring system. A unique combination of technology was used to build the physical station, as well as the supporting cloud infrastructure, providing a user-friendly way of accessing critical data. The combination and implementation of this new pump station monitoring technology provides multiple benefits for both NLLD and the community. In addition to the primary benefit of collecting data, other resulting benefits include:</p> <ul style="list-style-type: none"> • Minimizing land subsidence • Reduced levee maintenance costs • A system of operations accountability for staff and operators based on historical data • A tool that can be used to educate operations staff and the public • Use of historical data to understand operation requirements and prioritize future capital projects 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$431,000	\$431,000

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. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:						
<p>Goodbee Pond Goodbee, LA</p> <p><i>St. Tammany Parish Government</i> 21490 Koop Dr. Mandeville, LA 70471 Anthony Smith 985.898.2700</p>	<p>TBS serves as the prime consultant for the Goodbee Pond Project. The project consists of re-evaluating a previous Hydrologic and Hydraulic (H&H) Modeling Study for the area and implementing improvements to reduce flooding in the project area. The previous study was completed several years prior and evaluated the reduction in water surface elevations in the approximately 1,800-acre study area with the implementation of several drainage improvements. The proposed improvements analyzed include a 54-acre dry detention pond, a control structure, channel widening, channel extending, and culvert upgrades.</p> <p>The Professional Services provided for the project to date include data discovery, data gap analysis, topographic survey, H&H modeling and report production, model QA/QC, composite landowner mapping, desktop environmental analysis, and overall project management. Future tasks include design of the drainage improvements, additional topographic surveying required for design, geotechnical engineering (borings, laboratory testing, analysis), wetland delineation, and permitting.</p> <p>TBS provided a topographic survey to acquire data on the existing drainage features (culverts, ditches, channels) in the approximately 4,000- acre watershed for use in the modeling effort. A combination of digital terrain models, contours, and topographic survey information was used to determine the watershed area and to establish boundary conditions for the model. The model was updated to reflect the newly gathered data.</p> <p>The H&H modeling software used was the EPA SWMM 5.0 module which is a dynamic, integrated hydrologic and hydraulic stormwater and floodplain modeling software with the ability to model conditions coupled in both 1D (open channel and closed conduit flow) and 2D (overland flow). High water marks were collected by the TBS survey team during a heavy rain event and used in the model calibration. Once calibrated, the proposed improvements were analyzed for two design storms.</p>						
							
	<p>Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%; text-align: center;">Completion Date (Actual or estimated):</th><th style="width: 35%; text-align: center;">Entire Project:</th><th style="width: 35%; text-align: center;">Work for which Firm was Responsible:</th></tr> <tr> <td style="text-align: center;">Ongoing</td><td style="text-align: center;">N/A</td><td style="text-align: center;">\$351,000</td></tr> </table>		Completion Date (Actual or estimated):	Entire Project:	Work for which Firm was Responsible:	Ongoing	N/A
Completion Date (Actual or estimated):	Entire Project:	Work for which Firm was Responsible:					
Ongoing	N/A	\$351,000					

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:	
Jefferson Parish Government	Swift Energy Operating, LLC; Double Eagle Marine, LLC; Tommie Vizier and Sons Towing Co, LLC; Premier Tugs, LLC; Daigle Towing Service, LLC; T. Baker Smith, LLC	Because TBS held a portion of the liability, Jefferson Parish offered a settlement, which we negotiated with them and which was approved by Jefferson Parish Council on April 30, 2014. Jefferson Parish prevailed in this litigation, which was settled out of court.

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

FIRM HISTORY

T. Baker Smith, LLC (TBS), an *Engineering News Record* Top 500 Design Firm, has provided professional surveying, engineering, environmental, and construction management services in Louisiana for the past century. TBS is a fully integrated, professional consulting firm committed to precision, integrity, and ingenuity. Founded in 1913, TBS has grown from a one-man shop in Houma, LA to a 260+ associate firm with office locations across the Gulf Coast Region, including Metairie, Covington, Baton Rouge, Lafayette, Thibodaux, and Houma, Louisiana; Galveston, Corpus Christi, and Houston, Texas; and Jackson, Mississippi. As residents of Jefferson Parish, we are deeply invested in the success of projects in the area, as it affects our homes, our families, and our businesses. We are eager to engage all of our resources to assist Jefferson Parish in any effort.

FIRM SIZE

TBS currently has over 260 staff members firm-wide including civil, structural, and environmental engineers, land surveyors, planners, environmental scientists, biologists, construction administrators, and project representatives.

LOCATION OF THE PRINCIPAL OFFICE

TBS will manage projects resulting from this request from our Metairie office, located at 740 Phosphor Avenue, Suite B, Metairie, LA 70001. Additional support can be provided from all other offices if ever needed.

PROFESSIONAL TRAINING AND EXPERIENCE

Our professionals hold degrees in civil engineering, mechanical engineering, structural engineering, mechanical engineering technology, geomatics, industrial technology, drafting and design technology, etc. All of our professionals have proper state registrations. These qualifications are exemplified in the resumes provided in Section K.

CAPACITY FOR TIMELY COMPLETION OF PROJECTS

TBS has an office in Jefferson Parish, LA located at 740 Phosphor Avenue, Suite B, Metairie, LA 70005. The Metairie office employs 12 associates, five of whom reside in Jefferson parish. Our local staff is fully supported by a company-wide staff of 260+ associates, including 27 professional engineers and 18 professional surveyors that are available to assist in meeting project demands, should the need occur.

ADVERSARIAL LEGAL PROCEEDINGS

As described in Section M above, TBS was involved in a legal matter with Jefferson Parish that was settled in April of 2014.

MINIMUM REQUIREMENTS

Requirement	TBS Associate
1. The persons or firms under consideration shall have at least one principal who is a professional engineer who shall be registered as such in Louisiana	Kenneth Wm. Smith, PE, PLS., FACEC Chief Executive Officer LA PE.24642 exp.: 9/30/2022
2. The persons or firms under consideration shall have a professional in charge of the project who is a professional engineer who shall be registered as such in Louisiana with a minimum of five (5) years experience in the disciplines involved	Brian E. Moldaner, PE, MBA Lead Professional, Engineering LA PE.40075 exp.: 3/31/2024
3. The persons or firms under consideration shall have one employee who is a professional engineer registered as such in Louisiana in the field or fields of expertise required for the project (A sub-consultant may meet the requirement only if the advertised project involves more than one discipline.)	Brian E. Moldaner, PE, MBA Lead Professional, Engineering LA PE.40075 exp.: 3/31/2024

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

PRIOR SUCCESSFUL COMPLETION OF PROJECTS

TBS' team of professionals has many years of experience working on complex drainage improvement projects. Projects highlighted in Section L exemplify our history of similar project experience and include:

Public works is all about making a difference in our communities; improving the quality of life for our families and neighbors; and developing and sustaining long-term, trusted relationships with our local and state government agencies. TBS thrives on providing top-notch, integrated solutions that improve our roads, highways, and bridges, as well as our drainage and sewerage infrastructure. We work daily to find solutions to restore and preserve our precious coastline so that we may sustain our livelihood in these coastal communities we hold so dear. TBS provides experienced, trusted, and local professionals with the passion to see our communities flourish and the know-how to see these meaningful projects through to a satisfactory completion for the public.

EXPERIENCE WITH DRAINAGE IMPROVEMENT PROJECTS

TBS is a fully integrated, professional consulting firm committed to delivering successful project outcomes for our clients in the public sector. As a firm since 1913, we are intimately familiar with drainage concerns, and we pride ourselves on serving as a one-stop-shop for innovative drainage solutions. TBS is your experienced, responsive, local trusted advisor ready to leverage a suite of professional services to successfully prepare a plan that addresses the current and future problems the Parish faces. As residents of Jefferson Parish, we are deeply invested in the success of this project, as it affects our homes, our families, and our businesses. We are eager to engage all of our resources to assist Jefferson Parish in this effort.

TBS is a coastal Louisiana leader in providing drainage solutions, having completed more than 75 drainage studies over the years. These studies have resulted in numerous flood mitigation projects to reduce flood risk to residents of coastal Louisiana. Flood mitigation projects include drainage improvements, forced drainage systems, levees, and water control structures. As an example, TBS has provided engineering design for 23 pump stations across southern Louisiana. Twenty-two of those pump stations are located within coastal parishes and some of them were designed by TBS and constructed almost 50 years ago and are still in operation today.

In recent years TBS has completed several projects similar in scope of services such as:

Lafourche Parish Master Drainage Plan

Lafourche Parish Government/North Lafourche Levee Conservation & Drainage District

The objective of this project was to research and to receive public input to help the parish plan future drainage improvements. In total the master drainage plan analyzed over 40 drainage areas with a total of 57 stormwater pump stations. To support the modeling effort, new survey data on main collection channels, such as cross sections, culverts, bridges, pump stations, etc., was collected. One hundred eighty-one (181) miles of collection canals resulting in 422 cross sections were surveyed.

Major Task Included

- Public Outreach
- Data Collection
- H&H Modeling
- GIS Inventory
- Review of Existing Parish Codes and Ordinances



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.

TBS has a proven track record of providing innovative, integrated solutions with focused, personal attention for our clients, including Jefferson Parish Government and surrounding municipalities and special districts. Our associates have the specific expertise relevant to the projects that may arise from this RFQ.

From the beginning, TBS has been providing integrated professional solutions for various types of engineering projects for the public sector. Some of our public sector clients include the following:

TBS Similar Clients	
Ascension Parish Government	Greater Lafourche Port Commission
Ascension Parish School Board	Houma-Terrebonne Airport Commission
Ascension Public Schools	Jefferson Parish Government
Assumption Parish Police Jury	Lafayette Consolidated Government
Assumption Parish Recreation District No. 2	Lafourche Parish Water District No. 1
Bayou Lafourche Fresh Water District	North Lafourche Conservation, Levee, and Drainage Dist.
Calcasieu Parish Police Jury	Plaquemines Parish Government
City of Covington	Port of Corpus Christi Authority of Nueces County, Texas
City of Galveston	Port of New Orleans
City of Gonzales	St. Charles Parish
City of Kenner	St. James Parish Council
City of Mandeville	St. Martin Parish Government
City of Morgan City	St. Mary Levee District
City of New Orleans Dept of Public Works	St. Mary Parish Government
City of Slidell	St. Tammany Parish Government
City of South Padre	St. Tammany Parish School Board
City of Thibodaux	Terrebonne Levee & Conservation District
City of Zachary	Terrebonne Parish Consolidated Government
Consolidated Gravity Drainage District No. 2 of St. Mary Parish	Terrebonne Parish Recreation District No. 10
County of Nueces	Terrebonne Port Commission
Flood Protection Authority-East	The Aransas County Navigation District
Friends of Bayou Lafourche, Inc.	Town of Grand Isle
Greater Lafourche Port Commission	West Feliciana Parish

CONCLUSION

Since 1913, TBS has provided public works solutions that improved the quality of life in the communities we helped build. From master planning and sustainable design to complete project management and government regulation, our public works solutions are targeted to fit each project scope. In the past five years, TBS worked on over 420 projects belonging to the public sector. With our 100 years of experience and passion for seeing our communities thrive, we ask for your trust in TBS to provide Jefferson Parish with integrated solutions for this project.

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

Signature: Andrée H. Cortez Print Name: Andrée Cortez, PE, PMP
Title: Chief Operations Officer Date: 03/31/2022