

## STATEMENT OF QUALIFICATIONS

### Routine Engineering Services for Drainage Projects SOQ No. 22-011 Resolution No. 138811



Prepared for:



March 31, 2022



## TEC Professional Services Questionnaire

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

**SOQ No. 22-011**

**Routine Engineering Services for Drainage Projects**

**Resolution No. 138811**

**B. Firm Name & Address:**



**PEC**  
PROFESSIONAL  
ENGINEERING  
CONSULTANTS  
CORPORATION

433 Metairie Road, Suite 313  
Metairie, LA 70005  
504.309.5360

**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:**

**Kevin A. Gravois, P.E., Senior Vice President**      **License No. 22722**  
**Ph: 504.309.5360**  
[kgravois@pecla.com](mailto:kgravois@pecla.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.**

**John H. Shires, P.E., Project Manager**      **License No. 26865**  
**Ph: 504.309.5360**  
[jshires@pecla.com](mailto:jshires@pecla.com)

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

<u>7</u> Administrative	<u>      </u> Estimators	<u>      </u> Specification Writers
<u>      </u> Architects (Licensed)	<u>      </u> Geologists	<u>      </u> Structural Engineers
<u>      </u> Chemical Engineers	<u>      </u> Geotechnical Engineers	<u>      </u> Graduate Engineers
<u>7</u> Civil Engineers	<u>      </u> Interior Designers	<u>2</u> Project Managers
<u>10</u> Construction Inspectors	<u>      </u> Landscape Architects	<u>2</u> Clerical
<u>      </u> Ecologists	<u>      </u> Land Surveyor	<u>1</u> Grant/Funding Specialist
<u>      </u> Electrical Engineers	<u>      </u> Mechanical Engineers	<u>1</u> Sanitary Engineers
<u>3</u> Engineer Intern	<u>      </u> Environmental Engineers	
<u>      </u> Professional Land Surveyors		<b><u>30</u> TOTAL</b>

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

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

## TEC Professional Services Questionnaire

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

**1.  
Not Applicable**

**2.  
Not Applicable**

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

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No)
1. None		
2.		
3.		

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

14

## TEC Professional Services Questionnaire

**K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (ie. 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:**

Kevin A. Gravois, P.E.  
Senior Vice President

**Project Assignment:**

Principal In Charge

**Name of Firm with which associated:**



**Years' experience with this Firm:**

39 Years

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

B.S./1981/Agricultural Engineering

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

1987/Agricultural Engineering; 1993/ Civil Engineering; 1993 Environment Engineering

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

Mr. Gravois has been employed with PEC for the 39 years. He performs civil engineering project management and design for municipal clients.

As Principal in Charge he is responsible to ensure adequate resources will be supplied to the respective project's undertakings, assistance in client liaison, and project management. He is also responsible for assisting the project's PM in ensuring the firm meets all its contractual obligations including meeting the project schedule. He presently is the Principal in Charge of the firm's work in most of its drainage, flood protection, and water work. As Principle in Charge of these areas he is extremely familiar with both the requirements of the projects the firm is performing and more importantly establishes relationships with most of the key officials in charge of the Parish's or community's infrastructure work.

Mr. Gravois has experience in many infrastructure project areas with specific expertise in utilities design and broad based planning for infrastructure improvements in rural and urban communities.



## TEC Professional Services Questionnaire

*Kevin A. Gravois, PE (continued)*

His expertise does include excellent knowledge in the design of pipeline systems for sewer, water and drainage. He has excellent background in design of drainage systems and performing the associated hydraulics and hydrology for assessment of basin flows during rainfall events and the related impacts on infrastructure and the overall community.

He has performed drainage basin assessments for FEMA Flood Insurance Studies using USACE HEC 2 step –backwater computer program and USGA WSPRO and LDOTD hydraulic modeling. He has prepared plans for major channel desnagging and drainage plans throughout Pointe Coupee Parish.

Mr. Gravois has extensive experience in the project management, design, and construction oversight of various types of roadways, potable water systems, water pumping stations, water wells, elevated and ground storage tanks, drainage and flood control, and natural gas engineering projects.

### **DRAINAGE EXPERIENCE:**

**Representative recent drainage projects include the following:**

**West Baton Rouge Parish Government – LA Highway 1 and Railroad Drainage Improvements at Lynndale Subdivision.** Additional drainage improvements including a 72 inch steel pipe under Union Pacific Railroad. Mr. Gravois was also responsible for railroad permitting, drainage analysis, hydrologic and hydraulic calculations to improve drainage for Lynndale Subdivision.

**Pointe Coupee Parish Police Jury- Evelina Street at Railroad Drainage.** Project Manager responsible for drainage improvements that included two 36" steel pipes under Union Pacific Railroad. Work also included drainage analysis, railroad permitting, hydrologic and hydraulic calculations to improve drainage for Evelina Street Subdivision.

**Pointe Coupee Parish CDBG-DR Master Drainage Plan.** As a result of Hurricane Gustav, monies were allocated to the Parish to assist in recovery efforts. Mr. Gravois was the Project Manager responsible for the coordination of 2 subconsultants on the Master Drainage Plan to assess the Parish's needs. The main phases to accomplish this work included problem identification, data collection, problem evaluation, solution development and solution evaluation. The plan identified 28 total drainage projects with an estimated cost of \$6 million dollars.

**West Baton Rouge Parish CDBG-DR Rosedale Road Drainage Improvements.** As a result of Hurricanes Gustav and Ike, monies were awarded to the Parish for general flooding that occurred in the Rosedale Road area located in the City of Port Allen. Mr. Gravois was the Project Manager and Design Engineer for this project. It included new drainage pipe and new catch basins with subsurface drainage analysis.

**East Ascension Consolidated Gravity Drainage District.** Feasibility study and design development phase of the Laurel Ridge Levee in East Ascension Parish for backwater flood control of the Amite River and Bayou Manchac watershed. The proposed new levee is 11,800 L.F. in length. Also included in this work is raising the existing Laurel Ridge Levee to 16' msl which is one (1) foot above the 100 year flood event of the Amite River. The existing levee is 14,500 L.F. in length.

**Pointe Coupee Parish Police Jury - Drainage Improvements.** Design Engineer responsible for design and construction management for bridge repairs, new bulkheads, sediment basin dredging, and concrete lining of False Bayou. Also clearing and desnagging of Lighthouse Canal which is the outfall for False River.

**City of Baker - Teakwood Street Drainage.** Design Engineer responsible for design and construction management of 15" to 42" urban storm sewer system in the City of Baker, LA.

**West Baton Rouge – U.S. Highway 190 drainage improvements;** hydrologic and hydraulic analysis of various cross drains leading to the addition of two steel crossdrains by direct bore.

## TEC Professional Services Questionnaire

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

**Name & Title:**

John H. Shires, P.E.  
Project Engineer

**Project Assignment:**

Project Manager

**Name of Firm with which associated:****Years' experience with this Firm:**

14 Years

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

B.S./1991/Civil Engineering

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

1996/Civil Engineering

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

Mr. Shires has over 25 years' experience planning, designing and managing infrastructure programs and individual projects. He has served as both a consultant and the Owner in the development of capital improvement programs and understands both perspectives in undertaking a program or project to meet the community's needs. **He is currently the Project Manager for five Jefferson Parish projects, 1.) Manhattan Blvd. Widening, 2.) Bike Path along Leo Kerner Parkway, 3.) Destrehan Bike Path, 4.) Nicolle Bike Path, and 5.) Consolidation of F8-4 and F8-5 Lift Stations.**

He has recently served as the Project Manager for several projects for the City of Mandeville, City of Covington, City of Kenner, and St. Tammany Parish.

When Mr. Shires was the Engineering Director of Public Works for St. Tammany and the Public Works Director of the City of New Orleans, he directed the implementation of projects, monitored project estimates and budgets, coordinated consultants on infrastructure projects and managed a multimillion dollar infrastructure programs to minimize the impact on the residents of the community and also stayed within the dollars budgeted for the program or project.

## TEC Professional Services Questionnaire

*John H. Shires, PE (continued)*

As a consulting engineer, he was responsible for assisting in the overall design, construction and management of the City of Kenner's \$20 million Project Blueprint program which overhauled major thoroughfares and residential streets in the City. Project Blueprint project included major upgrades and rehabilitation to the submersible and self-priming sewer lift stations.

### **RELEVANT PROJECT EXPERIENCE:**

**Airline Park Blvd Rehabilitation and Drainage, Jefferson Parish, LA.** Project Manager and Design Engineer for improvements to Airline Park Boulevard (500 Ft. North of Camphor to West Napoleon Ave). Major tasks of the project consist of the following items: removal of existing concrete roadway, re-grading of existing base material with additional base material, as necessary, replacement of concrete roadway, replacement of concrete aprons, installation of ADA ramps, adjustments to existing manholes, replacement of catch basins & laterals, replacement of a mainline drainage trunk line, and installation of a new 120 CFS pump station at the West Napoleon Avenue canal.

**Improvements to Westwego No. 1 Pump Station, Jefferson Parish, LA.** Project Manager responsible for improvements to Westwego No. 1 pump station. Project requirements are to demolish and remove old pump station building, salvage old pump and drive engine, demolish and remove the pump operator building to foundation slab, vertical fuel tanks and ancillary piping, demolish and replace bar screens at bridge deck, install 100 cfs. Vertical axial flow/propeller pump, motor, and generator with fuel tank and connect station to Parish SCADA System, install pump discharge pipe to connect with existing and elevated walkway to access all generators.

**Filmore North Group B, FEMA Recovery Roads Program, City of New Orleans, LA.** Project Manager on this pavement reconstruction project for several dilapidated streets in the Filmore Neighborhood. The project included removal and replacement of existing asphaltic concrete pavement and drainage structures, as well as replacement of waterline and sewer main. Plan development tasks include horizontal and vertical geometry, subsurface drainage design, cross section development and earthwork computations.

**Cherokee Street Drainage Improvements, City of New Orleans, LA.** Project Manager and Design Engineer responsible for conceptual design report, design, plans and specification preparation for drainage improvements on Cherokee Street. The proposed improvement project consists of a new subsurface storm water collection and conveyance system in a two block region of Cherokee Street (approximately 700 linear feet).

**Eighty Arpent Pump Station Improvements, St. Charles Parish Government, Des Allemands, Louisiana** – Project Manager and Design Engineer project included the design and construction administration of two new 65,000 gpm vertical axial flow stormwater pumping stations including pump, engine, gear drive, FSI, radiator, float controls and incidentals. Project also included the installation of a 48" dia. steel discharge pipe with air release, demolition and disposal of existing misc. pump station equipment and material, installation of a new hoist and crane system with modifications to the existing p.s. metal canopy, fencing, gates, site improvements, expansion of the p.s. building, a new precast bridge with 8 mechanical bar screens across the intake canal and improvements to the canal downstream.

**Randolph Pump Station Improvements, St. Charles Parish Government, Des Allemands, Louisiana.** Project Manager for the rehabilitation of the Randolph Pump Station. Project requirements are to install two (2) new automated mechanically cleaned bar screens (8-10 feet wide) to remove debris from the station intake channel and an associated pre-cast or cast-in-place concrete bridge deck to provide for the debris removal. PEC is preparing plans and specifications in accordance with SCP requirements and includes identifying and designing the needed repairs to the existing pump station steel sheet pile bulkhead. Other repairs deemed necessary by St. Charles Parish after dewatering the sump area; including cleaning out any accumulated silt from the sump area. Design requirements by SCP were: 1) the new concrete deck was to be located between the PS and the existing bar screen facility with new sheet pile walls along the canal bank, 2) the coffer dam was to be steel sheet pile and located just inside the existing bar screen, and 3) bypass pumping pick up was to be between the coffer dam and the existing bar screen facility.

## TEC Professional Services Questionnaire

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

**Name & Title:**

David A. Colson, P.E.  
Senior Design Engineer

**Project Assignment:**

Design Engineer

**Name of Firm with which associated:****Years' experience with this Firm:**

30 Years

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

B.S./1987/Civil Engineering

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

1995/Civil Engineering

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

Mr. Colson has almost 30 years of varied engineering experience including drainage systems, water, wastewater, and roadway. He has led the investigation and planning associated with these projects including the development of basic background data and the subsequent analysis of the best options to implement including the environmental and costs/benefit of each option. He has excellent experience with drainage basin analysis, storm water pump stations, large diameter pipelines, marine structures, bulk heads and foundation design. He understand constructability issues in wet, rural and terrain difficult conditions and has worked closely on projects requiring coordination with the COE for levee crossings and dredging of channels and drainage venues. Representative projects include the following:

**Improvements to Westwego No. 1 Pump Station (Jefferson Parish).** Senior Design Engineer responsible for improvements to Westwego No. 1 pump station. Project requirements are to demolish and remove old pump station building, salvage old pump and drive engine, demolish and remove the pump operator building to foundation slab, vertical fuel tanks and ancillary piping, demolish and replace bar screens at bridge deck, install 100 cfs. Vertical axial flow/propeller pump, motor, and generator with fuel tank and connect station to Parish SCADA System, install pump discharge pipe to connect with existing and elevated walkway to access all generators.



## TEC Professional Services Questionnaire

*David A. Colson, PE (continued)*

**Jefferson Parish, Airline Park Blvd. Rehabilitation & Drainage Upgrade.** Senior Design Engineer responsible for providing plans and specifications for bid in accordance with Parish and LA DOTD standards for the construction of improvements to Airline Park Boulevard (500 Ft. North of Camphor to West Napoleon Ave). Major tasks of the project consist of the following items: removal of existing concrete roadway, re-grading of existing base material with additional base material, as necessary, replacement of concrete roadway, replacement of concrete aprons, installation of ADA ramps, adjustments to existing manholes, replacement of catch basins & laterals, replacement of a mainline drainage trunk line, and installation of a new 120 CFS pump station.

**City of New Orleans, Cherokee Street Drainage.** Project Engineer responsible for preparing a conceptual engineering design report to identify drainage improvements and related construction to address localized flooding. The proposed improvement plan consists of a new subsurface stormwater collection and conveyance system in a two block region for approximately 700 L.F.

**City of St. Gabriel, Drainage Improvements.** Project Manager/Design Engineer responsible for the design of approximately 34,500 L.F. of stormwater drainage culverts (15" dia. to 72" dia.) including water main and gas main utilities relocation. The culverts were parallel to four City streets. The project also included substantial utility relocation.

**St. Charles Parish Eighty Arpent Pump Station Improvements** – Project Manager/Design Engineer project included the design and construction administration of two new 65,000 gpm vertical axial flow stormwater pumping stations including pump, engine, gear drive, FSI, radiator, float controls and incidentals. Project also included the installation of a 48" dia. steel discharge pipe with air release, demolition and disposal of existing misc. pump station equipment and material, installation of a new hoist and crane system with modifications to the existing p.s. metal canopy, fencing, gates, site improvements, expansion of the p.s. building, a new precast bridge with 8 mechanical bar screens across the intake canal and improvements to the canal downstream.

**Randolph Pump Station Improvements, St. Charles Parish Government, Des Allemands, Louisiana.** Project Manager for the rehabilitation of the Randolph Pump Station. Project requirements are to install two (2) new automated mechanically cleaned bar screens (8-10 feet wide) to remove debris from the station intake channel and an associated pre-cast or cast-in-place concrete bridge deck to provide for the debris removal. PEC is preparing plans and specifications in accordance with SCP requirements and includes identifying and designing the needed repairs to the existing pump station steel sheet pile bulkhead. Other repairs deemed necessary by St. Charles Parish after dewatering the sump area; including cleaning out any accumulated silt from the sump area. Design requirements by SCP were: 1) the new concrete deck was to be located between the PS and the existing bar screen facility with new sheet pile walls along the canal bank, 2) the coffer dam was to be steel sheet pile and located just inside the existing bar screen, and 3) bypass pumping pick up was to be between the coffer dam and the existing bar screen facility.

**Iberville Parish CDBG/DR Channel & Drain Restoration for Church Street, Town of Maringouin-** Project Manager/Design Engineer to clean and reshape approximately 400 l.f. of earthen drainage canal and install approx. 15,000 s.f. of fabric formed concrete lining system to improve the flow capacity of the canal. The project also consisted of the removal and replacement of approx. 300 l.f. of 15' dia. drainage culvert and 3 catch basins upstream of the canal.

**St. Mary Parish Drainage Study** – Project Manager responsible for an Engineering Report, hydraulic and hydrologic analysis of the Community of Amelia drainage system including pumping stations and major drainage structures.

**Pointe Coupee Parish Police Jury – Lighthouse Canal Bulkhead.** Project consisted of the design and construction management for vinyl bulkhead at False River Outfall in Pointe Coupee Parish, LA.

**Pointe Coupee Parish Police Jury – Bayou Grosse Tete, Bayou Fardoche, and Portage Canal Drainage Improvements.** Project consisted of the design and construction management for the clearing and desnagging of three water ways in Pointe Coupee Parish, LA.

## 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:	
<b>Improvements to Westwego No. 1 Pump Station</b>  Jefferson Parish 1221 Elmwood Park Blvd. Jefferson, LA 70123 504.736.6784	PEC was recently awarded this project and is beginning the design phase. The scope of work is as follows: <ol style="list-style-type: none"> <li>1. Demolish and remove the old Westwego 1 Pump Station building</li> <li>2. Salvage old Westwego 1 pump and drive engine</li> <li>3. Demolish and remove the pump operator building to foundation slab</li> <li>4. Demolish and remove vertical fuel tanks and ancillary piping (salvage fuel)</li> <li>5. Demolish and replace bar screens at bridge deck</li> <li>6. Install 100 cfs. Vertical axial flow/propeller pump, motor, and generator with fuel tank and connect station to Parish SCADA System</li> <li>7. Install pump discharge pipe (48 in.) to connect with existing</li> <li>8. Install new, elevated steel walkway to access all generators</li> <li>9. Improvements to electrical control bldg. (waterproofing)</li> <li>10. Miscellaneous site improvements for bridge access including grading and security fencing.</li> </ol>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
August 2020 (A)	\$2.0 Million	80%



## TEC Professional Services Questionnaire

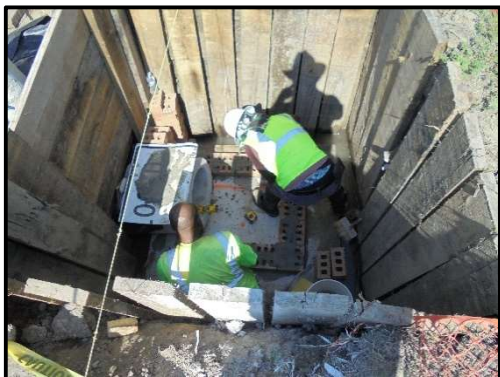
PROJECT NO. 2		
<b>Project Name, Location and Owner's contact information:</b>  <b>Airline Park Blvd. Rehabilitation &amp; Drainage Upgrade</b> <b>Jefferson Parish, LA</b>  Jefferson Parish 1221 Elmwood Park Blvd. Jefferson, LA 70123 504.736.6784	<b>Nature of Firm's Responsibility:</b>  Professional Engineering Consultants Corporation (PEC) was selected by Jefferson Parish to provide design services for the Rehabilitation of Airline Park Boulevard and its associated drainage improvements. The project consists of providing Plans & Specifications for bid in accordance with Parish and LADOTD standards for the construction of improvements to Airline Park Boulevard (500 Ft. North of Camphor to West Napoleon Ave). Major tasks of the project consist of the following items: removal of existing concrete roadway, re-grading of existing base material with additional base material, as necessary, replacement of concrete roadway, replacement of concrete aprons, installation of ADA ramps, adjustments to existing manholes, replacement of catch basins & laterals, <u>replacement of a mainline drainage trunk line, and installation of a new 120 CFS pump station at the West Napoleon Avenue canal.</u> In addition, PEC is responsible for the surveying and geotechnical sub-consultants.	
<b>Completion Date (Actual or estimated):</b>  2021 (A)	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>  \$7.0 Million	<b>Work for which Firm was Responsible:</b>  80%





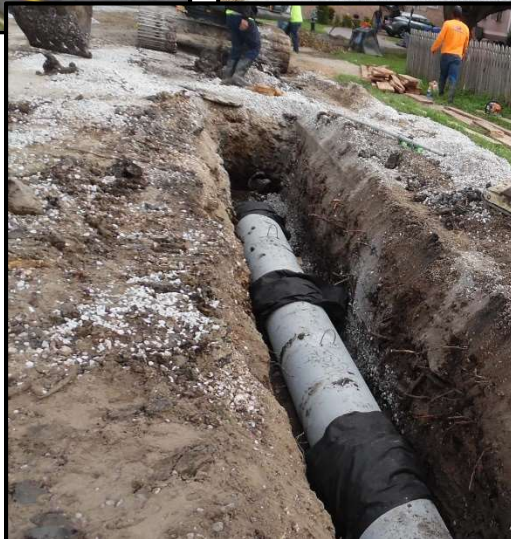
## TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Cherokee Street Drainage Improvements</b> <b>New Orleans, LA</b>  City of New Orleans DPW 1300 Perdido Street, Suite 6W03 New Orleans, LA 70112 504.658.8000	<p>PEC was selected by the Department of Public Works (DPW) of New Orleans to prepare plans and specifications for drainage improvements on Cherokee Street in the southwest region of the City approximately 2,500 linear feet northwest of Audubon Park. It is located in a mostly developed residential neighborhood known as "Black Pearl" in a region of the City commonly referred to as "Uptown Carrollton".</p> <p>The firm's initial task was to prepare a Conceptual Engineering Design Report to identify drainage needs and related construction improvements to address localized flooding along the 300 block of Cherokee Street. The proposed improvement project consists of a new subsurface storm water collection and conveyance system in a two block region of Cherokee Street for approximately 700 linear feet from the intersection with Benjamin Street to the intersection with Pearl Street.</p> <p><u>The objective of the Conceptual Engineering Design was to summarize the hydrologic/hydraulic analyses, as well as, develop a design plan to improve the stormwater drainage in the study area</u> capable of conveying the rainfall runoff from a 10-year 24-hour design storm event.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
October 2017 - Design May 2019 - Construction	\$1.076 Million Construction	100%



## TEC Professional Services Questionnaire

PROJECT NO. 4		
<b>Project Name, Location and Owner's contact information:</b>  <b>Filmore North Group B FEMA Recovery Roads Program New Orleans, LA</b>  City of New Orleans 1300 Perdido Street, Suite 6W03 New Orleans, LA 70112 504.658.8000	<b>Nature of Firm's Responsibility:</b>  As a result of Hurricane Katrina's floodwaters inundating the Filmore neighborhood in New Orleans, LA many roadways were damaged and were in need of repair.  Pavement reconstruction project for several dilapidated streets in the Filmore Neighborhood. The project includes removal and replacement of existing asphalt and concrete pavement and drainage structures, as well as replacement of waterline and sewer main. Plan development tasks include horizontal and vertical geometry, subsurface drainage design, cross section development and earthwork computations.	
<b>Completion Date (Actual or estimated):</b>  February 2022 (A)	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>  \$5 Million	<b>Work for which Firm was Responsible:</b>  65%





## TEC Professional Services Questionnaire

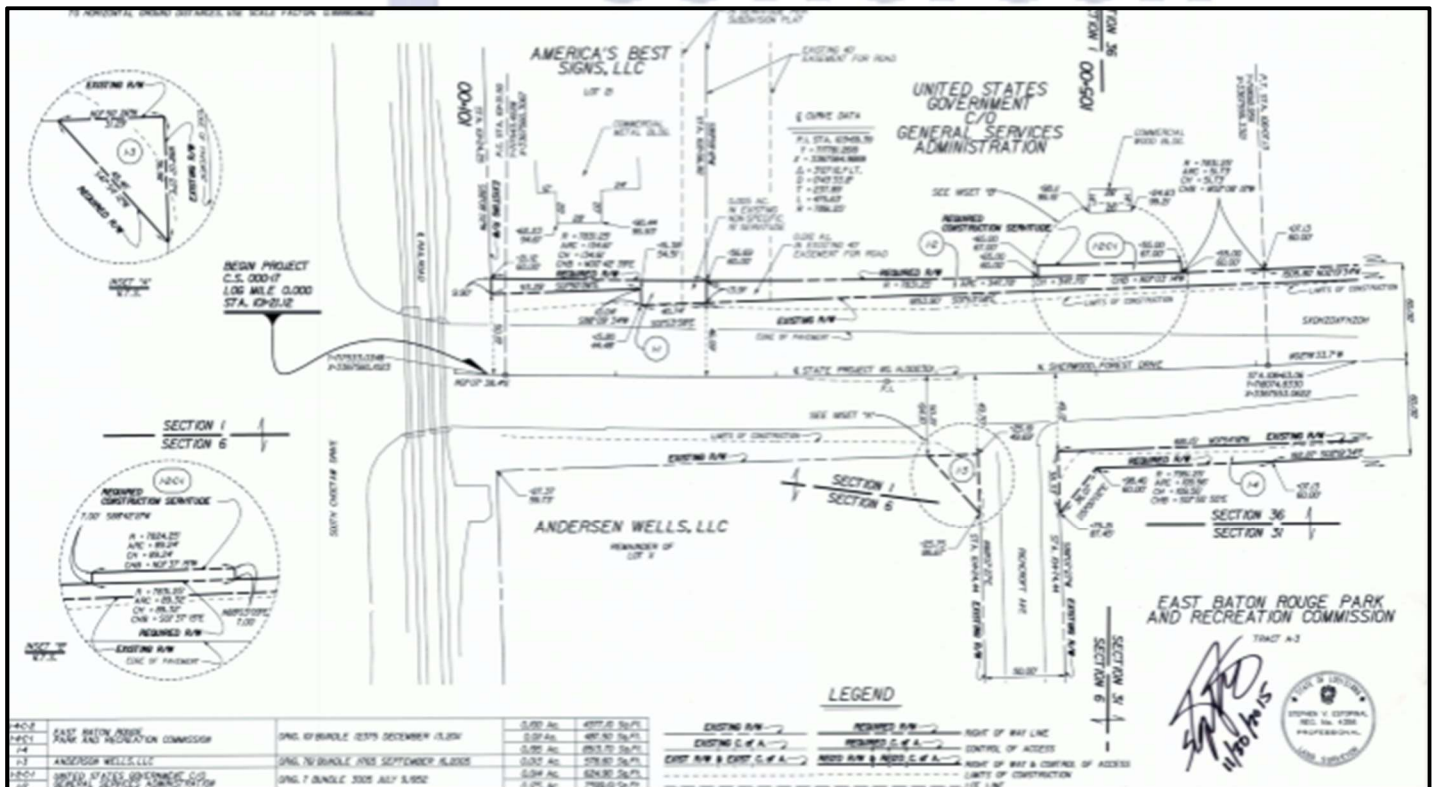
PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Dipple Canal Drainage Improvements</b>  Town of St. Francisville, LA P.O. Box 400 St. Francisville, LA 70775	PEC was retained for this project to solve the 30 year old erosion problem of the Dipple Canal drainage segment that had evolved to a critical phase endangering 12-15 residential houses located along the East Bank of the stream. Approximately 2,100 ft. of bank was stabilized using combinations of rip rap, hydro mulching and Geotextile matting. An additional 400 feet of an upstream segment was required to be desnagged and cleared of debris to also improve stream hydraulics. The entire project was completed in 4 months at the proposed cost of \$1.1 Million.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2009 (A)	\$1.1 Million Construction	100%




# TEC Professional Services Questionnaire

## PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>North Sherwood Forest Drive Improvements</b> <b>Baton Rouge, LA</b>  East Baton Rouge Parish DPW 1100 Laurel Street Baton Rouge, LA 70802 225.389.5623	PEC was responsible for the administration of Environmental Assessment, Roadway Design, and Subsurface Drainage. The proposed project begins at North Sherwood Forest Drive at the north edge of the pavement for Choctaw Drive (westbound lanes) and proceeds northerly along North Sherwood Forest Drive, for approximately 1.43 miles, ending at the intersection of North Sherwood Forest Drive and Greenwell Springs Road.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
November 2015 (A) Design	\$9.5 Million (E) Construction	100%



## TEC Professional Services Questionnaire

PROJECT NO. 7		
<b>Project Name, Location and Owner's contact information:</b>  <b>Drainage Master Plan &amp; OCD/DRU Gustav /Ike Drainage Improvements</b> <b>Pointe Coupee Parish, LA</b>  Pointe Coupee Parish Police Jury P.O. Box 290 New Roads, LA 70760 225.638.9556	<b>Nature of Firm's Responsibility:</b>  <b><u>Drainage Master Plan</u></b> As a result of Hurricanes Gustav and Ike, monies were allocated to the Parish to assist in recovery efforts. PEC as a prime consultant worked with 2 subconsultants on the Master Drainage Plan to assess the Parish's needs. <b><u>The goal of the Pointe Coupee Parish Master Drainage Plan is to reduce flood damages and risks to the people of Pointe Coupee Parish.</u></b> The main phases to accomplish this work include problem identification, data collection, problem evaluation, solution development and solution evaluation. The final product included the solutions for a given problem along with the expected benefits and costs. The focus of this scope of work includes the Upper Pointe Coupee, Bayou Portage Canal, and False River watersheds. <b><u>The plan identified 28 total drainage projects with an estimated cost of \$6,000,000 for the Parish.</u></b>  <b><u>Drainage Improvements Projects</u></b> As a result of the Parish's Master Drainage Plan, the Parish selected 15 projects with top priority out of the 28 that were identified in the plan. Out of the 15 projects, PEC was selected to provide engineering & surveying services for 10 local drainage projects being funded by the LA Recovery Authority for Hurricane Gustav/Ike Disaster Recovery. PEC is responsible for the design, plans and specs preparation, cost estimating, construction oversight and inspection services for the projects described below:	
		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
November 2017 (A) Construction	\$3.6 Million	100%



## TEC Professional Services Questionnaire

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Runway Safety Area and Drainage Improvements Gonzales, LA</b>  Louisiana Regional Airport 6255 Airport Industrial Blvd. Gonzales, LA 70737	<p>PEC was retained by Louisiana Regional Airport to perform a hydraulic analysis of the upper Panama Canal watershed to determine the proper structure sizing in order to allow the flow of storm water runoff through a designed subsurface system on the Airport. The designed structure consisted of three 10 ft. x 10 ft. reinforced concrete box culverts 520 ft. in length.</p> <p>The project was successfully constructed and is designed to flow 1,000 cfs.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
	2009(A) Construction	\$2.4 Million Construction



## TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Eighty Arpent Pump Station Improvements</b>  St. Charles Parish, LA 100 River Oaks Drive Destrehan, LA 70047	A multi-phase project, PEC investigated the feasibility of expanding the pump station capacity, installation of a hoist/crane system, providing mechanically cleaned bar screens to remove debris removal, new diesel fuel system, and emergency generator for backup power to the pump station. PEC prepared a conceptual design report which was approved and a Design Memorandum for the proposed project for approval by the Parish. Once approved, PEC prepared the plans and specification for the improvements to the pump station, along with required permitting and approvals by the State Fire Marshall's Office, U.S. Corps of Engineers permit and Coastal Zone permit. PEC completed the design, construction administration and inspection of the improvements to the Eighty Arpent Parish Pump Station which included increasing the capacity of the station by adding two (2) – 49" diesel pumps with 65,000 GPM (145 CFS) capacity, right angle gears, engines, and discharge piping. In the new pump station building extension a new ten (10) ton hoist/crane system was installed. To construct the work, temporary cofferdams were installed on the upstream and downstream of the existing pump station. PEC identified and designed the repairs to the existing station to eliminate ground subsidence and leakages. In addition, eight (8), heavy duty mechanically cleaned bar screens were installed.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2012 (A) Construction	\$7.0 Million Construction	80%





## TEC Professional Services Questionnaire

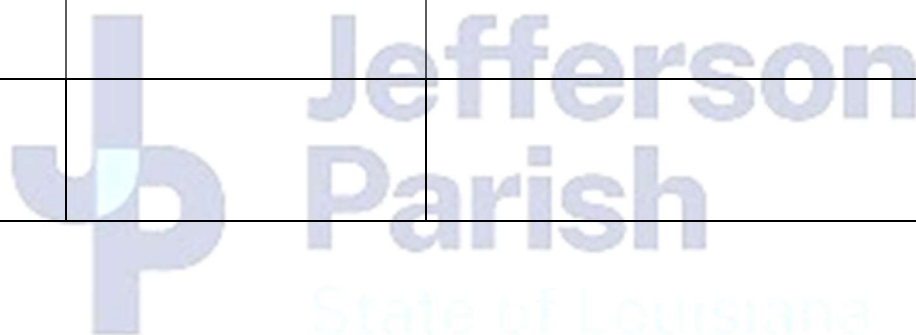
<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Plaquemines Parish Stormwater Pump Stations Replacement - Empire &amp; Homeplace (FEMA funding)</b>  Plaquemines Parish 8056 Highway 23, Suite 200, Belle Chasse, LA 504-297-5564	<p>We completed preliminary and final design, bidding &amp; construction administration for two of five pump stations which included coordination of the multi-disciplined team and with Parish, COE and PM officials.</p> <p>As a sub consultant to Stuart Consulting we were responsible for the complete design and construction administration of two major Stormwater pumping stations that were part of the FEMA funded replacement work for damaged infrastructure due to Hurricane Katrina. The Stations have rated capacities of 190 CFS and 408 CFS and required major reconstruction efforts. We designed the new station hydraulics to conform to new ABFE elevations and approval and coordination of all aspects of design with local parish authorities, their Program Manager, the COE, and FEMA officials.</p> <p>PEC worked closely with Parish officials to ensure the station conformed to their needs and any future levee improvements that affected the pump stations discharge hydraulics and relocation of the discharge outfall line. We coordinated a multi-disciplined team of surveying, geotechnical, structural, electrical, and civil personnel to meet a mandated fast track schedule demanded by the Parish officials. We provided plans that provide constructability with Parish ROW and met the new flood elevations for structures in this Parish</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2010 (A)	\$17,200,000	80%



## TEC Professional Services Questionnaire

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

<b>Parties:</b>		<b>Status/Result of Case</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
1.  NONE	  NONE	  NONE
2.		
3.		
4.		



## 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.**

Founded more than 50 years ago, we have provided quality-engineering design, environmental services, construction management and related services to over 50 municipal clients throughout the state. We are committed to providing Jefferson Parish with quality service while providing comprehensive and responsive drainage planning and design services. Every assignment is backed by the firm's strong technical resources and dedicated, professional personnel.

### **1. PROFESSIONAL TRAINING AND EXPERIENCE**

Some of our strongest credentials. for performing drainage planning and design services are as follows:

- Our proposed Project Manager, John Shires, has experience in drainage planning and design and Project Management experience. More significantly, he assisted in the preparation of numerous drainage master plans in the Jefferson Parish region and has infrastructure work experience in the Parish on the East and West Banks.
- We have experience in the work elements of drainage planning including:
  - Topographic and field surveys
  - Hydraulic modeling capability using a wide array of software and programs for evaluating 5, 10, 25, 50, and 100 years storms
  - Defining drainage basins, watershed areas and associated runoff and flood evaluations with related mapping and water surface elevations
  - Preparing proposed drainage improvements to meet proposed water surface elevations
  - Preparing construction costs estimates for proposed improvements, the prioritization of improvements, proposing efficient schedules, and resolving environmental and implementation concerns
  - Preparation of GIS and CADD drawings for integration and compatibility with Jefferson existing programs and systems
- We have a minimum of 29 engineering (PE's and EI's) and surveying personnel GIS, CADD, and design technicians who will be involved in, and capable of, performing the various elements of drainage improvements as discussed above and listed in our resume summary. We have in-house surveying capabilities that can be augmented by local surveying firms.
- We have completed more than 30 Flood Hazard Evaluations, FEMA Flood Insurance Studies, and bridge and associated drainage basin hydraulic studies. These hydraulic assessments and studies are all relevant components of the Proposed Drainage Master Plan.
- Our key personnel are experienced using the latest software for infrastructure, and specifically drainage.
- We routinely perform infrastructure preliminary engineering design and cost estimating services for drainage projects including: Storm water pump stations, culvert and ditches, levees, bulkhead and retaining walls, bridge improvements, channel improvements, canal and channel de-snagging, channel erosion and scour analysis for stabilization improvements, culvert and ditch design and outfall improvements
- We have worked closely with utilities, LADOTD, COE and other government agencies, community stakeholders and owners in a project's development.
- We prepare approximately 60 public works procurement packages annually estimated at more than 60 million dollars of construction on municipal infrastructure projects. These projects include preliminary engineering, detailed engineering documentation, plans and specifications, bid documents and bidding services and construction oversight and inspection services.

## TEC Professional Services Questionnaire

### N. continued

- We thoroughly understand the requirements drainage planning projects from permitting issues, environmental assessment of work areas, R/W acquisition, utility relocation, drainage and roadway concerns. We will work closely with the client and regulatory agencies to define the scope, prepare a schedule and ensure that as many parallel tasks are performed as possible in order to accelerate the project completion.

## 2. CAPACITY FOR THE TIMELY COMPLETION

### Staffing Capacity/Current Workload

**We have the necessary in-house personnel available for undertaking and implementing any projects as soon as the Parish authorizes it. We can commit whatever staff is necessary to ensure timely completion.**

- Our work load is at a level in which we have excellent capacity to complete this project in the requested timeframe.
- Key staff for this project have a long history (more than 50 years) of providing engineering and administrative services.
- WE have more than 30 technical and administrative personnel of which 5 are PE's and 2 are Engineering Interns. We also have a grant administrator who stays current on all guidelines and requirements and can assist you as needed on grant related projects.

### Quality Control/Meeting Deadlines

**Meeting deadlines and project milestones is one of the key reasons for PEC's high client retention.** A key to timely completion of work is having:

- experienced project managers that understand the tasks required
- enough technical and administrative resources available to meet the project requirements when key effort of completion is required
- coordination with the client to obtain critical background information and input related to the client's needs and project objectives.

**We have the professional, technical, and administrative staff and dedication to meet schedules and deadlines imposed by its clients or governmental agencies.** The firm has a bi-weekly staff meeting with key personnel to:

- check on project progress with respects to meeting the contract deadlines
- address any need for additional resources
- review key design decisions or project concerns
- distribute appropriate work elements to appropriate staff

We will maintain **continuous communication with you** to inform you of project status and any concerns related to meeting the project schedule both in design and in construction.

## 3. LOCATION OF PRINCIPAL OFFICE WHERE WORK IS TO BE PERFORMED

### Work Location:

We will be performing the work for this project from our office located in Metairie, at 433 Metairie Road, Suite 313, Metairie, LA 70005. We also have offices in Baton Rouge (main office) and New Orleans, LA. Mr. John Shires, our proposed Project Manager for this project lives in the Metro New Orleans area. Mr. Shires is available to discuss project progress and any concerns.

### Local Knowledge:

We have worked with you for several years, and have most recently worked with you on the Manhattan Blvd, widening, Leo Kerner Bike Paths; and Pump Station Improvements to Westwego No. 1 Pumping Station.



## TEC Professional Services Questionnaire

### N. continued

We also completed wastewater and water projects in several Jefferson Parish communities. Additionally, we have performed various other projects for other agencies in the Parish including the LADOTD ROW acquisition for the Timed Program, and the LADOTD ADA Transition Plan.

We have senior employees who worked extensively (while at other firms) on several of the Parish's major improvement programs. John Shires, P.E. has Drainage Master Planning experience in the Parish.

### 4. ADVERSARIAL LEGAL PROCEEDINGS WITH JEFFERSON PARISH

We have had no legal proceedings, time delays, cost overruns, or design inadequacies experienced on past or current projects for you.

### 5. PRIOR SUCCESSFUL COMPLETION OF PROJECTS

We have an outstanding track record in the design and construction oversight of widened urban roadways. We understand the critical nature of insuring that traffic disruption during construction is minimized.

We have been successful in meeting the budget, time frame of completion, and quality of the operations and performance for you and our other clients. We pride ourselves on repeat business and client retention. We are presently recognized by many of our clients as their engineers of record or, one of its "go to" consultants. As a result of its dedication to quality, we have enjoyed a stable and continuous growth and have become recognized throughout the State of Louisiana for our expertise in all phases of public works planning and development.



St. Mary Parish Stormwater  
Pumping Station



Cherokee Street – Complete Streets  
– drainage, road, sidewalk, parking



Bayou Sere and Lighthouse  
canal drainage improvements

### 6. SIZE OF FIRM RELATED TO NUMBER OF PERSONNEL TO MEET PROJECT REQUIREMENTS

We have on staff 8 PE's, 4 EI's and numerous other support personnel with excellent drainage credentials in all aspects of stormwater design. We will assemble an experienced multi-disciplined **project team to meet the size, time schedule, and scope of the project**. A project manager will be your point of contact and will ensure the team meets milestones, scheduled completion dates, and the project's proposed design and construction budget. The Project Manager will coordinate with you to ensure responsiveness and clear communications, cornerstones of our project management approach.

We have the **necessary in-house personnel available** for undertaking and implementing this project as soon as the Parish authorizes it. We can commit whatever staff is necessary to ensure proper project evaluation, project design, drafting of technical plans, development of technical specifications & construction administration.



## TEC Professional Services Questionnaire

N. continued

### 7. PAST PERFORMANCE BY THE PERSONS AND FIRM ON SIMILAR PROJECTS

We have performed hundreds of designs for drainage improvements. These projects have all the elements of a variety of drainage work and included environmental assessments and permitting, complete topographic and right-of-way surveys, hydraulic studies, utility relocations and upgrades, preliminary design and plans, and final design and plans.

#### Professional Background and Caliber of Key Personnel

The staff members who will be assigned to drainage planning and design projects for Jefferson Parish have the expertise and experience to perform the a diversity of tasks that might be required as noted on the enclosed resumes for key personnel. John Shires, P.E., the firm's proposed project manager has managed and/or designed Drainage projects that have been implemented throughout South Louisiana.

As previously mentioned, Mr. Shires worked on a prior Jefferson Parish Drainage Master Plan and has work experience in the Parish. Mr. Babin, and Mr. Gravois each have nearly 30 years' experience with varied drainage and hydraulic programs in performing infrastructure work on specific drainage projects, road and highways and site design. They have each been involved with either Flood Insurance Studies, Flood Hazard Evaluations, LADOTD hydraulics and basin assessments for bridge siting, and large tract drainage assessments. Drainage projects have routinely been performed in-house in PEC's work load for its work with the State and local communities and Parishes.

#### Capability to Meet Schedule and Deadlines

PEC has the professional, technical, and administrative staff and dedication to meet schedules and deadlines imposed by its clients or governmental agencies. The firm has a bi-weekly staff meeting with key personnel to:

- check on project progress and meeting the contract deadline
- address the need for additional resources
- review key design decisions or project concerns
- distribute appropriate work elements to correct staff



Antonia Plantation

PEC makes a priority of consistent communication with the client to inform them of project status and any concerns related to meeting the project schedule both in design and in construction.

Meeting deadlines and project milestones is one of the key reasons for PEC's high client retention.

#### Capability to Complete Projects Without Having Major Construction Cost Escalations/Overruns

We have a proven track record with our clients for completing projects without having major construction cost escalations or overruns. Our **success in minimizing cost overruns and escalations** starts with preparing complete designs for the scope of work, from the initial bidding of the project throughout the project's construction. We specialize in public **infrastructure design and are continuously preparing plans, specifications, construction documents and construction cost estimates** for public bid averaging from 75 to 150 bid openings per year.

## TEC Professional Services Questionnaire

### **N. continued**

#### **Quality of Projects Previously Undertaken**

We strive for excellence and dedication that guarantees quality projects and have met those goals throughout our professional history. We believe a quality project involves the following:

- Understanding **your** needs and intent
- Preparing a project that **meets your financial capabilities** desires for your project.
- Providing **responsive and accurate** information to you during your project's development
- At completion of construction, the **project is what you expected.**

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

Signature:  Print Name: Tony Arikol, P.E.

Title: President

Date: 3/30/2022

