

# Statement of Qualifications

## Routine Engineering Services for Streets Projects

Jefferson Parish Government  
SOQ 24-021

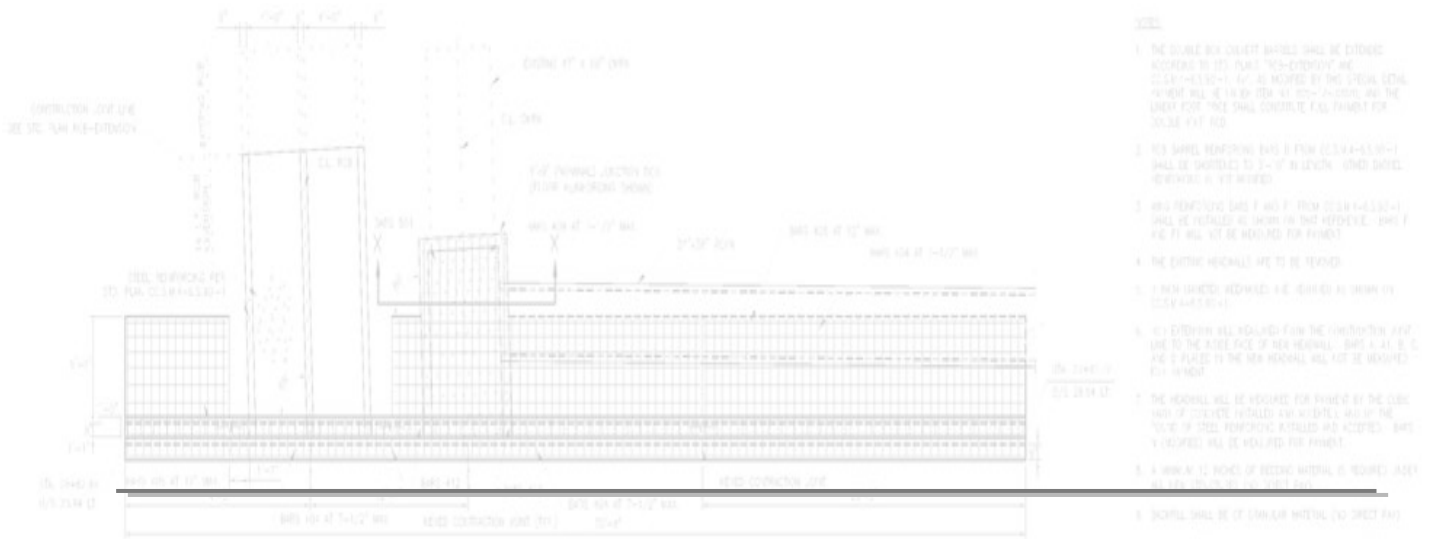
July 16, 2024

Submitted By:



PRINCIPAL *Infrastructure*®

Architecture ♦ Engineering ♦ Construction



*"To Exceed Client Expectations; That's our Mission."*

**Henry I. DiFranco, Jr., P.E., M.B.A.**  
President





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128 Northpark Boulevard ♦ Covington, Louisiana 70433 ♦ Phone: 985.624.5001

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July 16, 2024

Jefferson Parish  
Purchasing Department  
Attn: Mark Buttery – Purchasing Specialist II  
200 Derbigny St., Suite 4400  
Gretna, LA 70053

Re: Statement of Qualifications to Provide Routine Engineering Services for **Streets Projects** - SOQ 24-021 (Resolution No. 144319)

Dear Mr. Buttery,

**PRINCIPAL Engineering, Inc.** is pleased to submit our Statement of Qualifications for Routine Engineering Services for Streets Projects in Jefferson Parish. We are a federal verified *Service-Disabled Veteran Owned Small Business (SDVOSB)* with an exceptionally qualified team of professionals capable of providing consulting engineering services.

We look forward to the opportunity to serve Jefferson Parish Government by providing quality engineering consulting services on an as-needed basis for miscellaneous projects located throughout Jefferson Parish. If you have any questions or require additional information, please contact me at the number above.

Sincerely,  
**PRINCIPAL Engineering, Inc.**

A handwritten signature in blue ink that reads "Henry I. DiFranco, Jr.".

Henry I. DiFranco, Jr. PE  
President



**PRINCIPAL Infrastructure®**

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Architecture ♦ Engineering ♦ Construction

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[www.pi-aec.com](http://www.pi-aec.com) ♦ [info@pi-aec.com](mailto:info@pi-aec.com)

## TEC Professional Services Questionnaire

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

Routine Engineering Services for Streets Projects – SOQ 24-021

### B. Firm Name & Address:



128 Northpark Blvd.  
Covington, LA 70433

### 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:

Henry I. DiFranco, Jr., PE  
President  
128 Northpark Blvd  
Covington, LA 70433  
(985) 624-5001 | henry@pi-aec.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.

Andre C. Monnot, P.E.  
Vice President  
128 Northpark Blvd  
Covington, LA 70433  
(985) 624-5001 | andre@pi-aec.com

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

<u>3</u> Administrative	<u>    </u> Estimators	<u>    </u> Specification Writers
<u>1</u> Architects (Licensed)	<u>    </u> Geologists	<u>1</u> Civil/Structural Engineers
<u>    </u> Chemical Engineers	<u>    </u> Geotechnical Engineers	<u>    </u> Graduate Engineers
<u>3</u> Civil Engineers	<u>    </u> Interior Designers	<u>2</u> Project Managers (PH/EI)
<u>5</u> Construction Inspectors	<u>    </u> Landscape Architects	<u>1</u> Clerical
<u>    </u> Ecologists	<u>    </u> Land Surveyor	<u>    </u> Grant/Funding Specialist
<u>1</u> Electrical Engineers	<u>    </u> Mechanical Engineers	<u>    </u> Sanitary Engineers
<u>1</u> Engineer Intern	<u>    </u> Environmental Engineers	
<u>    </u> Professional Land Surveyors	<u>6</u> Other (Engr Tech & CAD Support	<u>24</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.**

1. N/A

2.

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

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

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

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

9

## 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:**

**Andre C. Monnot, P.E.**  
**Vice President**

**Project Assignment:**

**Professional In Charge/Project Manager** – Meets the Minimum Requirement #2-, “A professional in charge of the Project who is a licensed, registered engineer in the State of Louisiana with a minimum of five (5) years’ experience in the disciplines involved.

**Name of Firm with which associated:**



**Years' experience with this Firm:**

**15**

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

**Bachelor of Science in Civil Engineering, 2002.**

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

**Professional Engineer – 2007, Civil, Louisiana, License No. 33626**

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

Mr. Monnot has a diverse range of engineering and management experience in both the public sector as a military engineer and as a private consultant. He was deployed in support of Operation Iraqi Freedom, during which time he was the Chief Maintenance Engineer for the installation. He led construction on several emergency power projects, completed a comprehensive mapping and inventory of the base's roadway and drainage systems, and managed \$5 million in service contracts for garbage collection, custodial services, and potable water delivery. Since 2000, in the military and as a consultant, Mr. Monnot has designed an array of projects encompassing water, wastewater, roadway, drainage, structural, and airfield paving. This included preparation of engineering calculations, drawings, technical specifications, and contract documents; and managing personnel and costs related to the projects.

Andre Monnot will interface with Jefferson Parish on the overall direction and major project decisions; advise JP of key planning, design, or construction decisions that may have cost, schedule, health, safety, or operational implications; oversee project progress and provide direction and support to the project team; and be responsible for the day-to-day correspondence, schedule, budget development, progress assessment, risk management, quality management, and reporting.

## **TEC Professional Services Questionnaire**

### **Mr. Monnot Continued...**

#### **Central Avenue Rehabilitation: Jefferson Parish, LA**

Mr. Monnot designed widening of Central Ave. between Airline Hwy and Karen Ave, addition of subsurface drainage, replacement of 6" AC water main, and deconflicting three high pressure gas mains for underground piping installation. Principal is providing engineering design, bidding, construction phase and project close-out services for the water main replacement.

#### **US 190 and LA Hwy 22 Interchange Improvements**

Principal, with a traffic engineering subconsultant, developed a proposed widening through the US190/LA22 interchange. A mainline widening and proposed turn lane addition was drafted, operationally modeled, and brought to the LADOTD for adoption. The agency accepted the proposal, and in conjunction with RPC, the project was inserted into the Transportation Improvement Plan and has been constructed. Principal is responsible for design criteria, oversight, and final QA/QC of design documents; Mr. Monnot was the lead PM.

#### **Airline Park Blvd. Drainage Improvements & New Pump Station Owner: Jefferson Parish Government, La.**

The project includes removal of 2500 L.F. existing two-lane, two-way concrete roadway, re-grading of existing base material with additional sand as necessary, removal and replacement of mainline subsurface drainage, replacement of concrete roadway, replacement of water and sewer house connections, and adjustment/replacement of existing manholes, catch basins, water facilities, and sewer facilities as necessary. Principal analyzed area hydrology and performed hydraulic calculations to establish/verify proposed subsurface pipe sizes. The project also includes the construction of a new drainage pump station at Airline Park and West Metairie Canal. Roadway vertical geometry and drainage structure placement were designed to AASHTO standards, providing pleasing riding characteristics and eliminating localized street flooding. Principal provided construction drawings and specifications.

#### **Read Blvd. West Roadway Rehabilitation Owner: City of New Orleans**

Principal was retained by the City of New Orleans to prepare a scoping report and engineering design to repair roadway, sidewalk, and driveway damage in the Read Blvd. West neighborhood, which experienced damage from Hurricane Katrina. Principal is responsible for report writing, preparing plans and specifications, and construction administration. This is a FEMA-funded project.

#### **Harrison Ave Extension Land Use and Transportation Study: St. Tammany Parish, LA**

The project includes a land use study, trip generation for future developed condition with and without project, traffic analysis of LA 59/Harrison intersection, LA 59 @ LA 36 intersections, and LA 36 @ Harrison Extension intersection; Stage 0 environmental analysis, geometric alternative generation for mainline Harrison Ave Extension, and for intersections. Mainline LA 59 capacity was analyzed for current and future capacity under varying development scenarios. The study report considered environmental factors, economic and regulatory influence on developability of land, traffic, and roadway geometrics, to present a recommended alternative solution for roundabout intersection at LA 59, mainline Harrison Ave Extension alignment and section, and stop condition intersection at LA 36


#### **Roadway & Drainage Capital Improvement Program: City of Mandeville, LA**

This project includes mill and overlay of asphalt streets citywide, concrete panel slab replacement, intersection redesigns, bridge repairs, and drainage improvements. Principal created the contract documents, performed engineering design, is administering construction, and providing resident inspection services. The contract has a value of \$5M.

#### **Sister's Road Bridge Replacement: Tangipahoa Parish, LA**

This project constructs a 120 ft total length slab-span bridge, and realigns 850 ft of roadway, to correct a deficient horizontal curve. PRINCIPAL defined alternatives for Parish selection, consisting of varied design speeds, horizontal curve radius, and superelevation; then optimized for cost. The resulting roadway and bridge provide two travel lanes and full shoulders. The scope of engineering services included road design, bridge design, subsurface drainage, channel scour protection, signage, temporary traffic control, contract documents, environmental permitting, and assistance for right-of-way acquisition. The estimated construction cost is \$1.5M.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Henry I. DiFranco, Jr., P.E.</b> <b>President</b>
<b>Project Assignment:</b>
<b>Contract Oversight, Final Quality Assurance</b> – Meets the minimum requirement for #1 – “One principal who is a professional engineer who shall be registered as such in LA”
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>20</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Bachelor of Science in Civil Engineering (BSCE), 1991</b> <b>Master of Business Administration (MBA), 1998</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Professional Engineer – 1997, Civil, Louisiana, License No. 27448</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>As president of Principal Engineering, Inc., Mr. DiFranco is responsible for all daily operations ensuring the highest quality product is delivered on time and within the established budget. <b>Mr. DiFranco provided planning, design guidance and quality assurance/final design review for the following relevant Streets/Roadways:</b></p> <p><b>Airline Park Blvd. Roadway &amp; Drainage Improvements &amp; New Drainage Pump Station Jefferson Parish Government</b></p> <p>The project includes removal of 2500 L.F. existing two-lane, two-way concrete roadway, re-grading of existing base material with additional sand as necessary, removal and replacement of mainline subsurface drainage, replacement of concrete roadway, replacement of water and sewer house connections, and adjustment/replacement of existing manholes, catch basins, water facilities, and sewer facilities as necessary. Principal analyzed area hydrology and performed hydraulic calculations to establish/verify proposed subsurface pipe sizes. The project also includes the construction of a new drainage pump station at Airline Park and West Metairie Canal. Roadway vertical geometry and drainage structure placement were designed to AASHTO standards, providing pleasing riding characteristics and eliminating localized street flooding. Principal provided construction drawings and specifications. This project is eligible for federal construction funds as part of the Federal Aid Urban Systems Program; all work shall be performed in accordance with LA DOTD guidelines and shall be subject to review by the LA DOTD.</p>



## **TEC Professional Services Questionnaire**

### **Mr. DiFranco Continued...**

#### **Plantation Estates Roadway & Drainage Improvements; Jefferson Parish Government, La.**

The project included the preparation of construction documents for the removal and reconstruction of Burleigh Ct. N., Catalpa Court and Hermitage Drive. The reconstruction includes the raising in grade and re-alignment of the roadway to improve the drainage along with the upgrading of the drainage conveyance system to the main trunk line along Oak Alley Blvd. The scope includes removal and replacement/upgrade of the subsurface drainage system; remove and replace the roadways and base; adjust water and sewer service connections as necessary; and remove and replace drives when affected by the roadway replacement. Principal analyzed area hydrology and performed hydraulic calculations to establish/verify proposed subsurface pipe sizes. Roadway vertical geometry and drainage structure placement were designed to provide pleasing riding characteristics and reduce localized street flooding. Principal provided construction drawings, specifications, and cost estimate.

#### **LA 433 @ Voter's Rd. Improvements; St. Tammany Parish Government, La.**

This project, which is an American Recovery & Reinvestment Act (ARRA) Project - LA DOTD project, includes upgrades and improvements of a major State Highway and Parish intersection to provide a safer and more efficient intersection. The east and westbound lanes were widened to accommodate additional turn lanes. Box culverts and drainage structures extensions were designed, including new guard rail sections. The new eastbound approach consists of two through lanes, two left turn lanes and one right turn lane. The new westbound approach consists of two through lanes with one left turn lane. Widening was accomplished with PCC pavement. The typical sections consist of both asphaltic concrete shoulders with open ditches, and curbs with subsurface drainage. Parish roadway design included mill and overlay of asphalt streets. This project was designed using DOTD Roadway Design Procedures and Details, DOTD Hydraulics Manual and DOTD Standard Specifications.

#### **Roadway & Drainage Capital Improvement Program, City of Mandeville, LA**

This project includes mill and overlay of asphalt streets citywide, concrete panel slab replacement, intersection redesigns, bridge repairs, and drainage improvements. Principal created the contract documents, performed engineering design, is administering construction, and providing resident inspection services. The contract has a value of \$5M.

#### **Central Avenue Rehabilitation, Jefferson Parish, LA**

The project objective is to replace a 6" asbestos cement water main in the Central Ave. right of way between Airline Dr. and Karen Ave., with 12" C-900 PVC and 18" DR 11 HDPE. Existing fire hydrants, fittings, valves, domestic services, and fire services in the project limits will be replaced. Principal is providing engineering design, bidding, construction phase and project close-out services for the water main replacement. Project value \$3M.


#### **Emerald Forest Blvd. to LA 59 Connector – St. Tammany, LA**

Mr. DiFranco performed contract administration for this project where Principal Engineering performed the planning and engineering services required for the design and construction of the Emerald Forest Extension to LA 59. The scope segregates the project into two phases. The Feasibility Study phase (which is complete) established a preferred geometry supporting the roadway improvements while minimizing right-of-way acquisition, and included 25-year storm event roadway drainage and 100-year storm event cross drainage

#### **Read Blvd. West Roadway Rehabilitation - City of New Orleans**

PRINCIPAL was retained by the City of New Orleans to prepare a scoping report and engineering design to repair roadway, sidewalk, and driveway damage in the Read Blvd. West neighborhood, which experienced damage from Hurricane Katrina. Principal is responsible for report writing, preparing plans and specifications, and construction administration. This is a FEMA-funded project.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>John Rayer, P.E.</b> <b>Project Engineer</b>
<b>Project Assignment:</b>
<b>Road Design - -</b> Meets the Minimum Requirement #3- “The persons or firms under consideration shall have one (1) employee who is a licensed, registered architect and/or professional engineer in the State of Louisiana in the applicable discipline involved.”
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
1
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Bachelor of Science in Civil Engineering, 2018</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Professional Engineer - Civil, Louisiana License No. 47089</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Rayer graduated from Louisiana State University in 2018 with a Bachelor of Science in Civil Engineering, accepting a position with a private firm working there for approximately 2 years before accepting a position at the Louisiana Department of Transportation Road Design Section. While having a strong background in Transportation Engineering due to his experience in road design at LADOTD, he also previously received structural engineering training allowing him to have a well-rounded understanding of Civil Engineering.</p> <p><b>H.012001 – LA 406 Roundabout a FE Hebert</b></p> <p>This project is a roundabout project that is at the intersection of LA 406, F Edward Hebert Blvd., and Keating Dr. in Plaquemines Parish. My role on the project was lead designer and plan developer of the project. As lead designer, he was responsible for geometric design of the high-speed roundabout, drainage design, and sequencing of construction for the roundabout. The project was heading to 95% Final Plans prior to leaving LADOTD and was estimated to cost between \$3,000,000 - \$4,000,000. Mr. Rayer was the lead designer of this roundabout project from 2022 to 2023. The project was expected to bid in early 2025.</p>

## TEC Professional Services Questionnaire

**Mr. Rayer Continued...**

### **I-10 Widening Through Baton Rouge, LA**

This project consisted of developing alternatives and cost estimates for the expansion of I-10 through Baton Rouge, Louisiana from the I-10/I-12 split to LA 415. Mr. Rayer's role for this project was to calculate, with the assistance of other professionals, the quantities and costs of the project. After presenting alternatives and developing estimates, the final estimated cost, with contingencies, was approximately \$1 billion.

### **H.008358 – Black Bayou Bridge in Madisonville**


This bridge replacement project in Madisonville, Louisiana is along the Tchefuncte River on LA 1077. Mr. Rayer developed the alignment of the roadway and the diversion roadway for construction. He was also responsible for development of cost of construction for the roadway aspects of the project. The construction cost of the project at bid was \$4.3M. This project is currently under construction with the State.

### **LA 336 (Breaux Bridge)**

This project was the restoration of a historic lift span bridge in downtown Breaux Bridge, Louisiana. Mr. Rayer's role in this project was to develop calculations and drawings for the lift and bridge sections.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Tom Schreiner, P.E.</b> <b>Vice President</b>
<b>Project Assignment:</b>
<b>Senior Project Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>2</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Bachelor of Science in Civil Engineering, 1980</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Louisiana, Civil &amp; Environmental, #21892</b> <b>Mississippi, Civil # 9891</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Schreiner has worked successfully as a project manager and program manager on municipal, commercial, institutional, and industrial projects. He has cohesively worked with multiple governmental agencies on a broad spectrum of projects. Mr. Schreiner's experience includes both private and governmental positions. Professional Affiliations: American Society of Civil Engineers (ASCE), American Water-Works Association (AWWA).</p> <p><b>Public Work Director, City of Kenner, LA</b> Mr. Schreiner directed the Capital Infrastructure Improvement programs for stormwater drainage, MS4 compliance, long term planning, and daily O&amp;M operations for Louisiana's fourth largest City.</p> <p><b>Rachel Street Pump Station, Lafitte Levee District, LA</b> Project consists of designing a new pump station in the Goose Bayou area to accommodate a 10-year storm event in accordance with Jefferson Parish Standards. Drainage shall be designed to be tied into the existing drainage system. Principal is responsible for providing construction documents and a probable construction cost.</p>

## TEC Professional Services Questionnaire

Mr. Schreiner continued...

### **Grand Isle Drainage Pump Station, Jefferson Parish, LA**

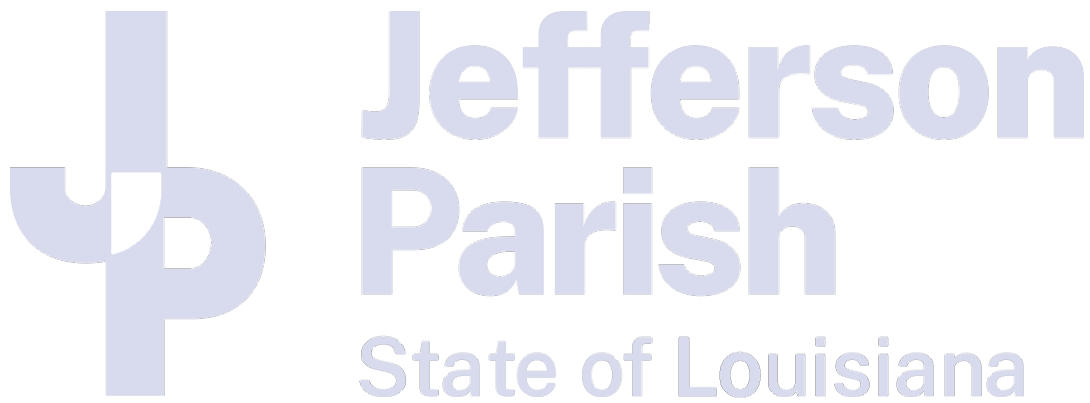
Principal is designing a new stormwater drainage pump station at the north end of Chighizola Lane in Grand Isle. The station is designed on an elevated platform and will discharge stormwater into the marsh. Project includes replacing large diameter CMP culvert adjacent to the station. Principal is also responsible for survey coordination, construction administration and resident inspection.

### **Bogue Chitto State Park, Covington, LA**


Designed the site layout, drainage and auxiliary roads for a new 1800-acre state park. Designed the water supply and distribution system, as well as the wastewater collection and treatment system (approx. 35,000 gpd) Provided construction administration.

### **Riverwood and Covington Country Club Drainage Improvements, St. Tammany Parish, LA**

Project Manager for the preparation of a statewide flood control application to relieve flooding in the Riverwood and Covington Country Club subdivisions in St. Tammany Parish, Louisiana. The application was successful. Design, bidding and construction management followed.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Brien Croff, P.E.</b> Project Manager
<b>Project Assignment:</b>
Engineering Design
<b>Name of Firm with which associated:</b>
 The logo for Principal Engineering, Inc. features a stylized blue and yellow 'P' icon to the left of the company name. 'PRINCIPAL' is in a bold, blue, sans-serif font, and 'Engineering, Inc.' is in a smaller, italicized, blue, sans-serif font below it.
<b>Years' experience with this Firm:</b>
3
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science in Civil Engineering, 2015
<b>Active registration: Year first registered/discipline:</b>
Professional Engineer - Civil, 2022, Louisiana License No. 46408 Professional Engineer - Civil, 2020, Ohio License No. 86190.
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Croff will have responsibility for planning, reports, and reviews. Brien has experience in project management, design drafting, hydraulic modeling and analysis, and technical report writing specifically in the areas of water supply and wastewater infrastructure.</p> <p><i>Experience in Program/Contract Management:</i></p> <ul style="list-style-type: none"><li>-Data Analysis and Management</li><li>-Environmental, Biological and Infrastructure Surveys</li><li>-Environmental Studies and Reports</li><li>-Water Resources Planning</li><li>-Meeting/Reporting Requirements</li></ul>

## **TEC Professional Services Questionnaire**

**Mr. Croff Continued...**

### **Fontainebleau State Park Force Main, City of Mandeville, La.**

Mr. Croff is assisting with the design of this project in addition to completing the Coastal use permit application, permit drawings in progress, & submission of preliminary design draft as of early Jan. 2022. Principal is performing Engineering Design and producing plans and specifications suitable for public bid, to replace the sanitary force main between City Lift Station 3, and the east bank of Bayou Castine. Design Submittals include 60%, 95% Pre-Final, and 100% Final. Engineer shall revise documents in accordance with City comments. Technical scope shall be according to the revised Pontchartrain Restoration Program (PRP) Work Plan.

### **Lyons Water Treatment Plant 1.0 MGD Expansion; St. John the Baptist Parish, La.**

Mr. Croff established design criteria and is performing design services for this project that includes a 1.0 MGD expansion of the WTP. The Lyons WTP project includes a 1.0 MGD filter addition, existing filter media replacement, new filter building and sludge pit expansion.

### **Quentin Road EQ Basin and Pump Station Improvements, Eastlake, Ohio**

On this project, Mr. Croff was the design engineer. Responsibilities included developing a basis of design, drafting of construction plans, cost estimate, permit applications, and specifications. The purpose of the project was to construct a 1-million-gallon equalization storage basin on the site of an existing sewage pump station, as well as improvements to the existing pump station. The cost of the project was \$2.2 million.

### **Troy Oaks Pump Station – Geauga County, Ohio**

On this project, Mr. Croff had the role of County project manager during design and construction. The purpose of the project was to decommission an existing wastewater treatment plant and construct a 75,000 gpd pump station in its place, which would discharge to another nearby treatment facility. The cost of the project was \$1.8 million.


### **Chardon Township Sanitary Sewer and WWTP, Geauga County, OH.**

The scope of this project was design and construction of a new sanitary sewer collection system and WWTP facility which would serve 115 residential properties. During the design phase of the project, I worked collaboratively with a consulting engineering firm to develop the plans for the WWTP facility, pump station and sanitary sewer. As assistant sanitary engineer for the County, I made decisions on process control, facility layout, specifications, and other operational needs. During the bidding phase I worked with the County administration to advertise and commission the project. During the construction phase I reviewed submittals from the contractor and made the decisions on whether to approve or reject products on the basis on conformance to specifications. I made decisions on change orders, partial payment applications, and RFIs.

### **List of Most Recent Projects Working:**

- **Third Street Drainage – Jefferson Parish**
- **Stall Ditch Drainage – Jefferson Parish**
- **Jung & Falcone Lift Station Improvements – Jefferson Parish**
- **Herwig Bluff Lift Station Improvements – St. Tammany Parish**
- **Water Storage Tank Inspection and Rehab. – St. John The Baptist**
- **Rachel St. Pump Station – Lafitte Levee Dist.**
- **Effluent Pipeline Extension – City of Mandeville**

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Natalya Munger, P.H., E.I.</b> Project Manager
<b>Project Assignment:</b>
Engineering Design Support
<b>Name of Firm with which associated:</b>
 <b>PRINCIPAL</b> Engineering
<b>Years' experience with this Firm:</b>
3
<b>Education: Degree(s)/Year/Specialization:</b>
Master's Degree/1995/Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
American Institute of Hydrology/Professional Hydrologist (P.H.) No. 11-H-3005 E.I. Louisiana No. 0030985
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Ms. Munger received her degree in civil engineering with minors in surface water hydrology and surveying (Accreditation Board for Engineering and Technology [ABET] accredited). Furthermore, Ms. Munger has professional qualifications as a professional hydrologist (surface water) from the American Institute of Hydrology and has received professional qualifications as a Certified Engineer Intern.</p> <p>Ms. Munger holds computer skills that enhance her credentials even further. Her computer skills include but are not limited to <i>AutoCAD, LA DOTD HYDROWINT, PCSWMM, FHWA WSPRO, HEC-18, and HEC-RA.</i></p> <p>Natalya Munger will be the key engineer and professional hydrologist for hydrologic and hydraulic (H&amp;H) and specialized modeling and overall environmental compliance.</p>



## **TEC Professional Services Questionnaire**

**Ms. Munger continued...**

**Prior Related Contract Roles:**

- H&H Modeling
- Environmental and Risk Assessment Modeling
- Water Resources Planning

***PROJECT EXPERIENCE:***

**Lake Vista Neighborhood Group E / FEMA Recovery Roads Program – New Orleans, LA (RR077)**

The scope of this project includes subsurface drainage improvements, concrete roadway re-design and replacement, and water main improvements. Principal performed the engineering design of all roadway and drainage improvements, and partial water main improvements.

**St. Charles Parish East Bank Master Drainage Plan | St. Charles Parish, LA**

Ms. Munger assisted in the preparation of Phase I of the East Bank Master Drainage Plan for the Montz, Norco, New Sarpy, and Ormond drainage basins. The model for this effort was developed through analysis of various datasets provided by the parish using XPSTORM, EPASWMM, and AutoDesk's Storm and Sanitary Analysis, resulting in detailed drainage improvement recommendations. (2020-2021)

**Subsurface Drainage Design City of New Orleans Department of Public Works, Multiple Locations | New Orleans, Louisiana (ILSI Engineering, Inc.)**

Ms. Munger prepared subsurface drainage design and hydraulic analysis using LADOTD HYDR6000 and HYDR6020 for multiple phases of New Orleans Department of Public Works project. Her work also included providing data points showing similar size and complexity. (2018 to 2020)

**Southeast Louisiana Drainage Projects in Jefferson Parish | Jefferson Parish Department of Capital Projects | U.S. Army Corps of Engineers, Jefferson, Louisiana (BCG Engineering & Consulting)**

Ms. Munger prepared design and construction cost credit reports for Southeast Louisiana Drainage Projects in Jefferson Parish. So far, 59 contracts have been issued under this program for drainage improvements, which included drainage canals, pumping stations, and bridges on both sides of the Mississippi River. The total program cost was \$650 million. (2012 to 2017)

**Florida Avenue Development Federal Emergency Management Agency (FEMA) Eligible Road Repair | City of New Orleans Department of Public Works, New Orleans, LA (BCG Engineering & Consulting)**

Ms. Munger prepared construction drawings and scoping reports for the Florida Avenue Development for road improvement projects that were eligible for FEMA funding. (2015 to 2018)

**English Turn Drainage, City of New Orleans Sewerage and Water Board | New Orleans, LA (ILSI Engineering, Inc.)**

Ms. Munger prepared a hydraulic model using PCSWMM for English Turn Subdivision to improve the capacity of the existing canals in the Algiers Sub-Basin and to increase the capacity of the nearby pump station. (2019)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Michael Melendez**  
Senior Engineering Technician

**Project Assignment:**

CADD

**Name of Firm with which associated:**



**Years' experience with this Firm:**

18

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

Associates Degree of Occupational Science in Computer Aided Drafting, 1999.

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

NA

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

Mr. Melendez has an associate's degree of Occupational Science in Computer Aided Drafting from Southeast College of Technology. His coursework included drafting classes for architectural, mechanical, civil, piping, and electrical. It also included classes for Microsoft Word and Excel. During his studies, he maintained a 4.0 GPA and graduated with honors. His professional qualities include the ability to analyze a problem and present an accurate resolution. He is also detail oriented, and focuses on quality and accuracy. Mr. Melendez is Proficient with AutoCAD, Civil 3D, GIS and many design software programs to include project scheduling.

**RELEVANT EXPERIENCE: Mr. Melendez was the lead Engineering CAD Technician on the following projects:**

**Airline Park Blvd. Drainage Improvements & New Pump Station Owner: Jefferson Parish Government, La.**

The project includes removal of 2500 L.F. existing two-lane, two-way concrete roadway, re-grading of existing base material with additional sand as necessary, removal and replacement of mainline subsurface drainage, replacement of concrete roadway, replacement of water and sewer house connections, and adjustment/replacement of existing manholes, catch basins, water facilities, and sewer facilities as necessary. Principal analyzed area hydrology and performed hydraulic calculations to establish/verify proposed subsurface pipe sizes. The project also includes the construction of a new drainage pump station at Airline Park and West Metairie Canal. Roadway vertical geometry and drainage structure placement were designed to AASHTO standards, providing pleasing riding characteristics and eliminating localized street flooding. Principal provided construction drawings and specifications. This project is eligible for federal construction funds as part of the Federal Aid Urban Systems Program; all work shall be performed in accordance with LA DOTD guidelines and shall be subject to review by the LA DOTD.



## **TEC Professional Services Questionnaire**

**Mr. Melendez Continued...**

### **Read Blvd. West Roadway Rehabilitation, City of New Orleans**

Principal was retained by the City of New Orleans to prepare a scoping report and engineering design to repair roadway, sidewalk, and driveway damage in the Read Blvd. West neighborhood, which experienced damage from Hurricane Katrina. Principal is responsible for report writing, preparing plans and specifications, and construction administration. This is a FEMA-funded project.

### **LA 433 @ Voter's Rd. Improvements; St. Tammany Parish Government, La.**

This project, which is an American Recovery & Reinvestment Act (ARRA) Project - LA DOTD project, includes upgrades and improvements of a major State Highway and Parish intersection to provide a safer and more efficient intersection. The east and westbound lanes were widened to accommodate additional turn lanes. Box culverts and drainage structures extensions were designed, including new guard rail sections. The new eastbound approach consists of two through lanes, two left turn lanes and one right turn lane. The new westbound approach consists of two through lanes with one left turn lane. Widening was accomplished with PCC pavement. The typical sections consist of both asphaltic concrete shoulders with open ditches, and curbs with subsurface drainage. Parish roadway design included mill and overlay of asphalt streets. This project was designed using DOTD Roadway Design Procedures and Details, DOTD Hydraulics Manual and DOTD Standard Specifications.

### **West Metairie Roadway Rehabilitation (Westbound) from West Metairie Transcontinental to Waldo Jefferson Parish Government**

The project scope included roadway improvements to the westbound lanes of a four-lane boulevard section, consisting of panel replacements, vertical geometry profile modifications at intersections with side streets, base replacements, placement of drop inlets at low points as required, and the replacement of drainage outfall pipes. The construction documents and specifications were prepared to Jefferson Parish's roadway standards. Const. Cost: \$900K.

### **Central Avenue Rehabilitation, Jefferson Parish, LA**

The project objective is to replace a 6" asbestos cement water main in the Central Ave. right of way between Airline Dr. and Karen Ave., with 12" C-900 PVC and 18" DR 11 HDPE. Existing fire hydrants, fittings, valves, domestic services, and fire services in the project limits will be replaced. Principal is providing engineering design, bidding, construction phase and project close-out services for the water main replacement. Project value \$3M.


### **Roadway & Drainage Capital Improvement Program, City of Mandeville, LA**

This project includes mill and overlay of asphalt streets citywide, concrete panel slab replacement, intersection redesigns, bridge repairs, and drainage improvements. Principal created the contract documents, performed engineering design, is administering construction, and providing resident inspection services. The contract has a value of \$5M


### **Lake Vista Neighborhood Group E / FEMA Recovery Roads Program – New Orleans, LA (RR077)**

The scope of this project includes subsurface drainage improvements, concrete roadway re-design and replacement, and water main improvements. Principal performed the engineering design of all roadway and drainage improvements, and partial water main improvements. Mr. Melendez assisted with the preparation and design of construction drawings.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Eric Glynn, E.I.</b> Project Engineer
<b>Project Assignment:</b>
Engineering Design
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
3
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science in Mechanical Engineering/2020/University of New Orleans.
<b>Active registration: Year first registered/discipline:</b>
2021/Engineer Intern (E.I.); Louisiana No. 0035028
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Glynn is currently assisting with modeling, site visits, plan markups, etc. etc. for PRINCIPAL on the following projects:</p> <ul style="list-style-type: none"><li>• Lake Vista Group E Roadway &amp; Water Imp. - New Orleans Department of Public Works</li><li>• Pointe a la Hache Pump Station Rehabilitation – Plaquemines’ Parish Gov.</li><li>• Lift Station 35 &amp; 38 Rehabilitation – City of Mandeville</li><li>• St. Charles Parish East Bank Drainage Master Plan – St. Charles Parish</li><li>• Ozone Woods Drainage Conveyance - St. Tammany Parish</li></ul>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Emile Barré</b> <b>Construction Manager</b>
<b>Project Assignment:</b>
<b>Construction Management</b>
<b>Name of Firm with which associated:</b>
 <b>PRINCIPAL</b> <i>Engineering</i>
<b>Years' experience with this Firm:</b>
4
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Bachelor of Science/1994/Mechanical Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Certified Engineer Intern (E.I.), No. 0001569 (currently in process to renew E.I.)</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p><b>Mr. Barré</b> is a dynamic professional with a proven record of building relationships, managing projects, guiding a team, while covering and reporting the details and finishing on time. Mr. Barré has over 27 years of experience in the construction and engineering profession. For the following projects, Mr. Barré serves as our construction manager.</p> <p><b>Sewer and Water Maintenance Project, City of Mandeville, LA</b> This project is to provide maintenance to the City of Mandeville sewer and water system, including repair and/or replacement of sewer and water mains, service connections, manholes and fire hydrants. Project value \$2M.</p> <p><b>Abita Springs Gravity Sewer Rehabilitation, St. Tammany Parish, LA</b> This project includes the rehabilitation of existing sanitary sewer mains, sanitary sewer laterals, sanitary sewer manholes and related appurtenances. Sewer mains predominantly rehabilitated by cured-in-place pipe. Sewer Laterals predominantly rehabilitated by chemical grout sealing. Some sections of sewer laterals dig and replace within roadway and include the rehabilitation of roadway. Project value \$2.5M.</p>

## **TEC Professional Services Questionnaire**

**Mr. Barré continued...**

### **Central Avenue Rehabilitation, Jefferson Parish, LA**

The project objective is to replace a 6" asbestos cement water main in the Central Ave. right of way between Airline Dr. and Karen Ave., with 12" C-900 PVC and 18" DR 11 HDPE. Existing fire hydrants, fittings, valves, domestic services, and fire services in the project limits will be replaced. Principal is providing engineering design, bidding, construction phase and project close-out services for the water main replacement. Project value \$3M.

### **David Drive Corridor Improvements, Jefferson Parish, LA**

This project includes subsurface drainage improvements, concrete roadway replacement/widening, asphalt roadway mill and overlay with widening, 12" waterline installation, sidewalk replacement, driveway replacement and traffic signal modifications. Principal is administering construction. Project value \$8M.

### **Roadway & Drainage Capital Improvement Program, City of Mandeville, LA**

This project includes mill and overlay of asphalt streets citywide, concrete panel slab replacement, intersection redesigns, bridge repairs, and drainage improvements. Principal created the contract documents, performed engineering design, is administering construction, and providing resident inspection services. The contract has a value of \$5M.

### **List of Projects most recently worked / working:**

#### **-Third Street Drainage – Jefferson Parish – 60% Construction**

-Lower Lafitte Tidal Protection – Lafitte Levee Dist. – 75% Construction

-Effluent Pump Station Rehab – City of Mandeville – 80% Permitting

-Westbank Trailhead – St. Charles – 100% Close Out

-Lower Lafitte Tidal Protection – 75% 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:	Nature of Firm's Responsibility:	
<b>US 190 and LA 22 Interchange</b> City of Mandeville, LA  City of Mandeville Dept. of Public Works 1100 Mandeville High Blvd Mandeville, La. 70471 Phone: (985) 624-3169	PRINCIPAL, with a traffic engineering sub-consultant, developed a proposed widening through the US190/LA22 interchange. A mainline widening and proposed turn lane addition was drafted, operationally modeled, and brought to the LADOTD for adoption. The agency accepted the proposal, and in conjunction with RPC, the project was inserted into the Transportation Improvement Plan and is currently under engineering design. Principal is responsible for design criteria, oversight, and final QA/QC of design documents to include engineering of the final 100% design documents; and will perform construction engineering and inspection (CE&I) on behalf of the local sponsor.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Dec 2020	\$3.2M	100%

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Central Ave Water Main and Roadway Improvement</b> Jefferson Parish, LA  Jefferson Parish Government Department of Capital Projects 1221 Elmwood Park Blvd., Suite 906 Jefferson, La. 70123 Neil Schneider, PE Phone: (504) 736-6833	The project scope was to widen an existing 20' wide two-lane roadway in a 50' right of way to 26' two lane roadway (2,700 linear foot project length), replace a 6" asbestos cement water main in the Central Ave. right of way between Airline Dr. and Karen Ave., with 12" C-900 PVC and 18" DR 11 HDPE, and install subsurface drainage along the roadside for the entire project length. Central Ave is a major north-south connection between Airline Highway and Jefferson Highway in Jefferson Parish and is heavily trafficked—presenting construction phasing challenges. Signals at each extent of the roadway belong to LADOTD and will require permitting from that agency. The right-of-way is also a major utility corridor, containing: 24" high pressure natural gas main, 18" high pressure natural gas main, 2" natural gas service, 8" sanitary sewer gravity main, 6" water main, overhead electrical and cable lines, proposed subsurface drainage, proposed 12" water main, and major fiberoptic duct bank (within a 50' right of way!).	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
August 2019 – Design 2020 - Construction	\$4.3M	100%



## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Harrison Ave Extension Land Use and Transportation Study</b> St. Tammany Parish, LA  Regional Planning Commission 10 Veterans Memorial Blvd. New Orleans, La. 70124 Chris Laborde Phone: (504) 483-8540	Land use study, trip generation for future developed condition with and without project, traffic analysis of LA 59/Harrison intersection, LA 59 @ LA 36 intersection, and LA 36 @ Harrison Extension intersection; Stage 0 environmental analysis, geometric alternative generation for mainline Harrison Ave Extension, and for intersections. Mainline LA 59 capacity was analyzed for current and future capacity under varying development scenarios. The study report considered environmental factors, economic and regulatory influence on developability of land, traffic, and roadway geometrics, to present a recommended alternative solution for roundabout intersection at LA 59, mainline Harrison Ave Extension alignment and section, and stop condition intersection at LA 36	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
May 2018	\$6.2M (Construction Est)	100%

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Airline Park Blvd. Roadway &amp; Drainage Improvements and Drainage Pump Station</b> Jefferson Parish, LA  Jefferson Parish Government Department of Engineering 1221 Elmwood Park Blvd., Suite 802 Jefferson, La. 70123 Mark Drewes, PE Phone: (504) 736-6500	Roadway and drainage design for removal and replacement of 2500 L.F. existing two-lane, two-way concrete roadway, re-profiling of roadway vertical geometry, removal and replacement of mainline subsurface drainage, replacement of water and sewer house connections, and adjustment/replacement of existing manholes, catch basins, water facilities, and sewer facilities as necessary; phasing of construction and maintenance of traffic on major intersection roadways (W. Metairie Ave), and on mainline Airline Park Blvd. The roadway vertical geometry and drainage structure placement were designed to AASHTO standards, providing pleasing riding characteristics and eliminating localized street flooding. All work was performed in accordance with LA DOTD guidelines and final plans were signed by the Chief Engineer of LADOTD.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
February 2017 – Design	\$4.6M	100%



## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility</b>	
<b>Florida Street Extension Widening</b> City of Mandeville, LA  City of Mandeville Dept. of Public Works 1100 Mandeville High Blvd Mandeville, La. 70471 Phone: (985) 624-3169	PRINCIPAL performed a feasibility study to identify constraints and preferred alignment for widening of this two lane roadway to a three lane roadway in a constrained right-of-way. Florida Street Extension is two-lane one-way and was converted to two-way three lane. PRINCIPAL analyzed traffic patterns, developed three alternate alignments and geometric schemes with cost estimates and environmental mitigation requirements, determined additional right-of-way requirements, and utilizing a survey, developed conceptual design alternatives for the project. Exhibits were prepared, as well as a conceptual design report. Based on Owner selection, design was advanced, including roadway, drainage, signal, and maintenance of traffic during construction. Principal also coordinated with the GNOEC for traffic intersection signalization.	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
Dec 2017	\$1.0M	100%

<b>PROJECT NO. 6</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Sister's Road Bridge Replacement</b> Tangipahoa Parish, La  Tangipahoa Parish Government 206 E. Mulberry Street Amite, LA 70422 985-748-3211	This project constructs a 120 ft total length slab-span bridge, and realigns 850 ft of roadway, to correct a deficient horizontal curve. Principal Engineering defined alternatives for Parish selection, consisting of varied design speeds, horizontal curve radius, and superelevation; then optimized for cost. The resulting roadway and bridge provide two travel lanes and full shoulders. The scope of engineering services included road design, bridge design, subsurface drainage, channel scour protection, signage, temporary traffic control, contract documents, environmental permitting, and assistance for right-of-way acquisition. The estimated construction cost is \$1.5M. The project is design complete and is expected to be advertised for public bid in August 2021.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
Nov 2021 – Design 2023 - Construction	\$2M	100%

## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Read Boulevard West Rehabilitation Group A &amp; C - 2012-FEMA-12P</b> City of New Orleans, La.  City of New Orleans Dept. of Public Works 1300 Perdido Street, Suite 6W03 New Orleans, LA 70112 Phone: (504) 658-8000	For this Hurricane Katrina FEMA Recovery Program project, Principal Engineering evaluated 3.9 miles of local street pavement in the Read West neighborhood. Additionally, the appurtenant sidewalk, curbing, and driveway aprons were evaluated. Using photographic evidence from pre-storm, immediately following the storm, and at several subsequent intervals, damage associated with the storm and recovery effort was identified for federal funding under the Stafford Act. Principal Engineering documented and submitted an increase in PW scope of over 50%. This resulted in the request being approved with a highest-rate-seen of 84%. This represents an increase of over \$2M in aid to the client.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2023	\$15.0M	100%

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility</b>	
<b>Girod Street Intersection Improvements</b> City of Mandeville, LA  City of Mandeville Dept. of Public Works 1100 Mandeville High Blvd Mandeville, La. 70471 Phone: (985) 624-3169	Principal Engineering designed the reconstruction of five intersections on a primary street in the historic section of Mandeville, La to correct drainage problems and create "showcase" infrastructure. The design included modification of subsurface drainage, utility relocations, pavement restoration, and most visible, the replacement of deteriorated concrete sidewalk with brick pavers. The pedestrian areas in the corners of the intersections will be defined clearly, crosswalks will be more visible to drivers and pedestrians alike, compliance with the ADA will be attained, and aesthetics drastically improved. The project includes 2,300 linear feet of asphalt mill and overlay and 700 square yards of concrete paving.	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
June 2017	\$1.5M	100%

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>LA 433 @ Voter's Road Intersection Improvements, State Project No. 018-30-0025, Federal Aid Project No. ARR-5209(509)</b> St. Tammany Parish, LA  St. Tammany Parish Government Department of Engineering 21415 Koop Drive Mandeville, LA 70471 985-898-2552	This project included the improvement of intersections of a major state highway and parish streets to provide safer and more efficient intersections. The east- and westbound lanes were widened to accommodate additional turn lanes. Box culverts and drainage structures extensions were designed, including new guard rail sections. The new eastbound approach consists of two through lanes, two left turn lanes and one right turn lane. The new westbound approach consists of two through lanes with one left turn lane. Widening was accomplished with PCC pavement. The typical sections consist of both asphaltic concrete shoulders with open ditches and curbs with subsurface drainage. Parish roadway design included mill and overlay of asphalt streets and re-configuration of traffic patterns at the intersection. This project was designed using LaDOTD Roadway Design Procedures and Details, LaDOTD Hydraulics Manual and LaDOTD Standard Specifications. This project is a Federal Stimulus Project funded by the ARRA.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
June 2016	\$3.5M	100%

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Emerald Forest Blvd to LA 59 Connector</b> St. Tammany Parish, LA  St. Tammany Parish Government 21415 Koop Drive Mandeville, LA 70471 985-898-2552	This project extends the existing Emerald Forest Blvd to form a transportation corridor between US190 and LA59, making a critical east-west link relieving traffic on I-12 and the overloaded Harrison Ave. Predicted volume on the new roadway is over 18,000-veh/day. US 190 and LA 59 volumes are 72,000-veh/day and 31,000-veh/day, respectively. Engineering scope includes traffic data collection, volume forecast from TransCAD modeling, peak hour determination, intersection and roadway capacity analysis, and geometric analysis for candidate alignments, 2-lane, and 4-lane roadway sections. Improvements to the existing roadway and intersections are likewise analyzed to meet the capacity needs of the new corridor. Following a public meeting, the Parish will select a preferred alignment, which will advance to engineering. NEPA documentation in compliance with LADOTD requirements, environmental permitting, land acquisition appraisal and documentation, and survey are in the engineering scope	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
On-Going	\$918K	100%

## TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A - NONE		
2.		
3.		
4.		

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

PRINCIPAL Engineering, Inc. (PRINCIPAL) is a full-service consulting Architecture, Engineering, and Construction services (A/E/C) firm specializing in the following disciplines: **Architectural, Civil, Environmental, Structural, Electrical and Mechanical, and Construction Engineering Services**. Founded in 2004, we successfully provide professional services to federal, state, parish, and city governmental agencies since our inception. Over **90 percent** of our work is from governmental agencies.

PRINCIPAL Engineering, Inc. is fully licensed and insured to perform architectural and engineering services in the State of Louisiana. The firm is registered as a corporation with the State of Louisiana, Office of the Secretary of State and is licensed as an Engineering Firm with the **Louisiana Professional Engineering and Land Surveying Board; License no. 3168**. In addition, we are currently licensed to practice professional engineering in the states of **Alabama, Arizona, Arkansas, Colorado, Florida, Georgia, Illinois, Iowa, Kansas, Kentucky, Maryland, Mississippi, Missouri, Nebraska, Nevada, New Mexico, New York, North Carolina, Ohio, Oklahoma, South Carolina, Tennessee, Texas, Utah, Virginia, and West Virginia**.

PRINCIPAL is pleased to report that we are solvent and in a solid financial condition. We have a healthy cash flow, no outstanding debts, and a favorable cash reserve. In addition to our capital reserves, PRINCIPAL has a significant cash line of credit which gives us the capacity to deploy resources when and where needed to meet the needs of our clients. We have the capacity, capability, and experience to deliver successful A/E services to the federal government. PRINCIPAL's President and Vice President are former active-duty military engineering officers and retired reserve forces military engineering officers that have past successful experience working on CONUS and OCONUS US Army and US Air Force DOD Facility and Civil Works Projects.

**PRINCIPAL is a verified Service-Disabled Veteran Owned Small Business (SDVOSB) with the Center for Veterans Enterprise (CVE) and PRINCIPAL is also a certified Disabled Veteran and Hudson Initiative Small Business and a Small and Emerging Business Enterprise with the Louisiana Department of Economic Development.**

PRINCIPAL Engineering® is a federally registered service mark.

## TEC Professional Services Questionnaire

### **1. Professional Training and Experience**

The staff at PRINCIPAL is committed to a “total approach” philosophy in providing consulting services to our clients. PRINCIPAL uses Autodesk **Civil 3D**, a powerful site, drainage, terrain modeling, and roadway design software package. Principal’s CADD Designers have completed Autodesk training and we are currently utilizing **Civil 3D** to develop infrastructure designs for many clients thus reducing the design schedule and increasing efficiency of plan development.

As noted herein, PRINCIPAL Engineering has a staff of experienced and trained professionals who have successfully completed the planning, design, and construction phase services for numerous local municipal routine Engineering projects. PRINCIPAL’s staff is experienced in conducting **studies, engineering reports, H&H modeling and preparing construction documents for the design of many types of roadways, drainage, water, sewer, building/facility and coastal restoration and flood control projects**. The engineers at PRINCIPAL stay abreast of new developments and technologies in the industry by attending annual events held by the American Society of Civil Engineers (ASCE), the Society of American Military Engineers (SAME) and the American Public Works Association (APWA). Our Vice President, Mr. Monnot is an officer in the local American Public Works Association (APWA) chapter.

In addition, PRINCIPAL Engineering’s President, Mr. DiFranco, and Vice President, Mr. Monnot, bring our team (and St. Tammany Parish) over 50 years of combined valuable Civil Engineering experience from their success within local municipalities, State & Federal clients, as well as unique military engineering and consulting experience. Our President, Mr. DiFranco, provides unique Public Works experience to our clients; having served as a municipal engineer and Director of Public Works and Utilities for two (2) local municipalities. Mr. DiFranco is a former US Army Engineer Officer and is a retired Lt Colonel for the US Air Force Reserve where he was responsible for the evaluation of airfield pavements and DoD facilities. Mr. DiFranco received the *Louisiana War Cross* and numerous combat decorations including the outstanding unit award with “VALOR”. Furthermore, Mr. DiFranco was also the Chairman/Commissioner of the St. Tammany, Levee, Drainage and Conservation District; Governor Appointed from 2014 to 2021. This experience as an Owner’s representative and consulting engineer brings unique valuable insight to our municipal clients.

Our vice-president, Mr. Monnot is also a former Air Force Civil Engineering Officer, where he completed numerous infrastructure improvement projects for Coalition Forces. In addition, Mr. Monnot was appointed to the Historic Commission for the Town of Abita Springs. In conclusion, the local, state, and federal past and current involvement Principal Engineering, Inc., encompasses will allow the as-needed A/E services of St. Tammany Parish to be worked with the utmost professionalism and expertise; with communication being our top value to reach success for our Parish projects.

### **Key Personnel Training & Experience**

- **Henry DiFranco, PE**, is **President** of Principal Engineering, Inc. and has over 33 years of experience in local, state and federal public works engineering and management. Mr. DiFranco served as the **Director of Public Works & Utilities** for a local Parish and held numerous positions as a Parish Public Works Engineer (Jeff Parish) and Consulting Engineer over the past **30 years**. He is also a retired **Lt Colonel for the USAF Reserve** having served as a **Civil Engineer officer** with the Air Force Civil Engineer Center and is a **veteran of Operation Iraqi Freedom and Noble Eagle**. Mr. DiFranco is the **former Chairman of the St. Tammany, Levee, Drainage and Conservation District (Governor Appointed - 2014 to 2021)**, where he has been instrumental in the planning, scope writing and implementation for the development of a *Coastal Master Plan for St. Tammany Parish*.
- **Andre Monnot, PE**, is **Vice President** of Principal Engineering, Inc. and has a diverse range of planning, engineering design and management experience in both the public sector, as a military engineer, and as a private consultant. He has demonstrated experience in large-scale H&H drainage modeling and planning, shoreline processes and shoreline protection. He has been the lead engineer for the CPRA’s Mid Barataria Sediment Diversion project and the *Lake Pontchartrain Shoreline Protection and Restoration* for the City of Mandeville. Mr. Monnot was the **ENGINEER IN CHARGE** of the



## **TEC Professional Services Questionnaire**

Jefferson Parish Avondale/Waggaman Area Master Drainage Plan, Waggaman Railroad Jack & Bore, Orleans Village (SDIP) project and he is currently the lead on the *St. Charles East Bank Master Drainage Plan*.

- **Thomas Schreiner, PE**, has worked successfully as a project manager and program manager on municipal, commercial, institutional, and industrial projects. He has cohesively worked with multiple governmental agencies on a broad spectrum of projects. Mr. Schreiner's experience includes both private and governmental positions having served for 6 years as the Public Works Director for the City of Kenner. Professional Affiliations: American Society of Civil Engineers (ASCE), American Waterworks Association (AWWA).
- **Brien Croff, PE**; Mr. Croff has experience in project management, design drafting, hydraulic modeling and analysis, and technical report writing specifically in the areas of water supply and wastewater infrastructure. He will support the project planning and conceptual design of coastal and water resource projects as well as site visits as needed.
- **Natalya Munger, PH, EI**; received her degree in civil engineering with minors in surface water hydrology and surveying (Accreditation Board for Engineering and Technology [ABET] accredited). Furthermore, Ms. Munger has professional qualifications as a professional hydrologist (surface water) from the American Institute of Hydrology and has received professional qualifications as a Certified Engineer Intern. Ms. Munger holds computer skills that enhance her credentials even further. Her computer skills include but are not limited to AutoCAD, LA DOTD HYDROWINT, PCSWMM, FHWA WSPRO, HEC-18, and HEC-RA. PRINCIPAL Engineering, Inc. is honored to have Mr. Munger's background/experience as a vital contribution to our team.

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

Based on a review of our current and projected workload, our current staff has the capacity to add new projects to our current design workload. Principal strives to carefully schedule our workload and we would not bring on any assignment if we did not have the capacity, experience, or resources to complete the project within the client's anticipated schedule. We work closely with the client to develop a schedule that meets their needs for completion. A snapshot of some of our current Jefferson Parish workload, current phase and recent project additions include the following:

#### **Current JPG Design/CPS Workload:**

- ◆ JPG – Live Oak Blvd. Water Line – Design – 95% Complete
- ◆ JPG – Bayou Rigolettes East Marsh – Study – 95% Complete
- ◆ JPG – Lafitte & Pritchard Sewer LS – Close Out 100%
- ◆ JPG – Jung Blvd & Falcone St. – Close Out 100%
- ◆ JPG – Jefferson Heights Waterline Improvement – Design – 20% Complete
- ◆ JPG – Destrehan Sewer Lift Station – Design – Bidding Phase 95%
- ◆ JPG – Grand Isle Pump Station – Design – 95% Complete
- ◆ JPG – Westbank Master Drainage Plan – Study – 70% Complete
- ◆ JPG – Laketown Shoreline Alternatives – Study – 50% Complete
- ◆ JPG – Laketown Rock Jetty – Design – 100% Complete
- ◆ JPG – Woodmere Playground – Design 100% Complete (Sub to Meyer)
- ◆ JPG – Third Street Drainage – Construction – 60% Complete
- ◆ JPG – Stall Ditch Drainage – Construction – 100% Complete
- ◆ JPG – Bucktown Marsh Overlook Structure – Close Out 100%
- ◆ JPG – Woodmere Youth Center Renovations – Bidding Phase – 0% Complete

### **3. Location of the Principal Office Performing Work**

Our St. Tammany Parish, LA office, located at **128 Northpark Blvd. Covington, LA** is the office where the work will be performed.

## **TEC Professional Services Questionnaire**

### **4. Adversarial Legal Proceedings**

Principal Engineering, Inc. has no past or current litigation with Jefferson Parish Government, and we have no history of litigation with any governmental/municipal client.

### **5. Prior Successful Completion of Projects of this Type and Nature**

Principal is very familiar with Jefferson Parish. Our president is a former Public Works and Utilities Director (2000 to 2004). As the director of two departments, Mr. DiFranco is intimately familiar with Water and Sewer Collection and Treatment Facilities and disinfection methods and is very knowledgeable of the Parish's needs. Principal Engineering has completed numerous projects; Water Storage Tank Inspection and Rehab, Woodland Bridge & Roadway Rehab (East & West), Country Club Drive Bridge & Roadway Rehab and the Greenwood Drive Bridge & Roadway Rehab. In addition, Principal is currently working on the Water Storage Tank Inspection and Rehabilitation project.

### **6. Size of the Firm**

Principal Engineering has a staff of twenty-two professional and technical employees, including engineers and engineering technicians with specialization in the evaluation, design and construction document preparation for drainage infrastructure projects. Our team includes a staff of 5 licensed professional engineers, 2 engineer interns and 3 BS graduates in engineering technology as well as H&H Specialized Professional. Furthermore, our Construction Administration has over 30 years of experience in his field.

### **7. Past Performance**

Principal Engineering has an excellent professional reputation with all our governmental agency clients. Principal has provided services to nearly every public agency in the New Orleans metropolitan area as well as various State and Federal agencies. Every Governmental client is and has been a repeat customer. A partial list of our New Orleans regional area clients includes the following:

- ◆ City of New Orleans, Department of Public Works
- ◆ City of Kenner, Department of Public Works
- ◆ City of Covington, Department of Engineering
- ◆ City of Mandeville, Department of Public Works
- ◆ City of Hammond, Department of Engineering
- ◆ Jefferson Parish, Department of Public Works
- ◆ Jefferson Parish, Department of Ecosystem & Coastal Management
- ◆ Tangipahoa Parish, Department of Engineering
- ◆ Jefferson Parish School Board
- ◆ St. Tammany Parish, Department of Engineering
- ◆ St. Tammany Parish, Department of Environmental Services
- ◆ Town of Abita Springs
- ◆ City of Slidell, Department of Engineering
- ◆ Plaquemines Parish Government, Department of Public Works
- ◆ St. Bernard Parish Government, Department of Public Works
- ◆ Sewerage and Water Board of New Orleans
- ◆ Housing Authority of Jefferson Parish
- ◆ St. Charles Parish, Department of Public Works
- ◆ St. John the Baptist Parish Department of Public Works & Public Utilities

Furthermore, Principal Engineering has past and current engineering experience working with the following state and federal agencies, U.S. Army Corps of Engineers, Department of Veterans Affairs, Coastal Protection and Restoration Authority and the Department of Transportation and Development.

## TEC Professional Services Questionnaire

**In Closing:**

*We will provide the highest quality of personalized, professional, and state of the art technology to our clients. PRINCIPAL is committed to assisting our clients by offering inventive solutions to evaluate, plan, design, construct and/or restore the infrastructure under their jurisdiction and to provide professional engineering services to safeguard life, health, and property of the residents that they serve.*



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

Signature: Henry I. DiFranco, Jr. Print Name: Henry I. DiFranco, Jr.

Title: President Date: July 16, 2024





[illegible]

# PRINCIPAL

*of our World”*

