

SOQ 23-037

**Statement of Qualifications for Professional
Traffic Engineering Services**

Resolution No. 143314

January 25, 2024

Submitted By:

Horizon Engineering, LLC

1013 N. Causeway Blvd., Suite 201

Metairie, LA 70001

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 23-037 - Statement of Qualifications for Professional Traffic Engineering Services
Resolution No. 143314

B. Firm Name & Address:

Horizon Engineering, LLC
1013 N. Causeway Blvd., Suite 201, Metairie, LA 70001

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

John Karlin, SE, PE
Co-Founder and Principal
jkarlin@horizonengineeringllc.com
504-270-1830

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.

Ben Bartlett, PE, PTOE
bbartlett@horizonengineeringllc.com
504-270-1830

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

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

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

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

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. N/A

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

YES ☐ NO ☐ N/A

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary. None

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

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

0

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

John Karlin, SE, PE
Co-Founder and Principal

Project Assignment:

Professional-in-Charge, Traffic Engineer, and Lead Structural Engineer

Name of Firm with which associated:

Horizon Engineering, LLC

Years' experience with this Firm:

0

Education: Degree(s)/Year/Specialization:

MS, 2017, Civil (Structural) Engineering
BS, 2016, Civil Engineering

Active registration: Year first registered/discipline:

Louisiana PE, License No. 44795, 2020, Civil and Structural Engineer
Illinois SE, License No. 081-008511, 2020, Structural Engineer

Other experience and qualifications relevant to the proposed Project:

Traffic Engineering Certifications

ATSSA Certified Traffic Control Supervisor (TCS), Technician (TCT), and Flagger; LADOTD Traffic Engineering Process and Report (TEPR) Certification

US 90 / Jefferson Hwy. at LA 3046 / Causeway Blvd. Traffic Study

Scope: Traffic study in accordance with LADOTD TEPR requirements (14 volume count, 12 turning movement count, and 17 driveway/median opening count locations). **Role:** Project Manager and Traffic Engineer. Led coordination with Jefferson Parish, LADOTD Traffic Engineering Division, RPC, JPSO, and LSP. Prepared scope of work; managed 6 field personnel for volume count, turning movement count, and driveway/median opening count equipment installation, peak period observations, and geometric field review; and reviewed peak period, peak hour, unmet demand, balanced volumes, and unbalanced and balanced volume maps.

US 90 / Jefferson Hwy. at LA 3046 / Causeway Blvd. Conceptual Planning Study

Scope: Conceptual planning study for potential intersection improvements (15 potential options). **Role:** Project Manager and Lead Traffic Engineer. Led coordination with RPC, LADOTD, Jefferson Parish, and other stakeholders and the conceptual development of potential options to alleviate congestion, including modifications and improvements to the existing J-turn bridge, traffic signals, signage, and pavement markings. Prepared conceptual layouts for 15 potential options; prepared opinions of probable construction costs for 5 potential options; and presented potential options to the public at public meetings.

Lakeshore Drive Vehicular and Pedestrian Traffic Study

Scope: Vehicular and pedestrian traffic study along Lakeshore Drive. **Role:** Traffic Engineer. Obtained and analyzed volume counts, turning movement counts, and pedestrian counts to assist with the determination of traffic calming and pedestrian crossing improvement options for Lakeshore Drive.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ben Bartlett, PE, PTOE Co-Founder and Principal
Project Assignment:
Project Manager, Lead Traffic Engineer, and Civil Engineer
Name of Firm with which associated:
Horizon Engineering, LLC
Years' experience with this Firm:
0
Education: Degree(s)/Year/Specialization:
MCE, 2010, Civil Engineering BS, 2008, Civil/Environmental Engineering
Active registration: Year first registered/discipline:
Louisiana PE, License No. 38980, 2014, Civil Engineer PTOE, License No. 4020, 2016, Professional Traffic Operations Engineer
Other experience and qualifications relevant to the proposed Project:
<p>Traffic Engineering Certifications PTOE; ATSSA Certified Traffic Control Supervisor (TCS), Technician (TCT), and Flagger; LADOTD Traffic Engineering Process and Report (TEPR) Certification</p> <p>US 90 / Jefferson Hwy. at LA 3046 / Causeway Blvd. Traffic Study Scope: Traffic study in accordance with LADOTD TEPR requirements (14 volume count, 12 turning movement count, and 17 driveway/median opening count locations). Role: Lead Traffic Engineer. Led data collection and analysis. Led 5 field personnel for volume count, turning movement count, and driveway/median opening count equipment installation, peak period observations, and geometric field review; determined peak period, peak hour, and unmet demand; balanced volumes and prepared unbalanced and balanced volume maps; performed warrant analysis and crash data analysis; prepared collision diagram; and prepared LADOTD TEPR documentation.</p> <p>Veterans Blvd. Transit Signal Priority Scope: Installation of new traffic signal controllers and a transit signal priority system along Veterans Blvd. (32 intersections between Loyola Dr. in Kenner and Pontchartrain Blvd. in Orleans Parish and 22 Jefferson Parish Transit buses). Role: Project Manager and Lead Construction Engineer. Led construction engineering and inspection. Managed inspectors; reviewed RFIs, submittals, and pay applications; coordinated priority system testing; advised on priority system requirements and operational gaps; and prepared change orders.</p> <p>Power Blvd. Median Improvements and Pedestrian Traffic Study Review Scope: Installation of a multi-use path and landscaping in the median of Power Blvd. as well as a pedestrian/bicycle truss bridge over Canal No. 1. Role: Project Manager and Lead Construction and Traffic Engineer. Led construction engineering and inspection. Managed inspectors; reviewed RFIs, submittals, and pay applications; coordinated material testing; and prepared change orders. During construction, re-evaluated the location of a pedestrian crossing at Vintage Dr. and prepared a report that identified an improved crossing location based on vehicular and pedestrian traffic data as well as existing site features.</p>
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TEC Professional Services Questionnaire

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Lakeshore Drive Vehicular and Pedestrian Traffic Study

Scope: Vehicular and pedestrian traffic study along Lakeshore Drive. **Role:** Project Manager and Lead Traffic Engineer. Led data collection and analysis (volume counts, turning movement counts, and pedestrian counts). Reviewed traffic accident reports, existing roadway geometry (i.e., sight lines/distances), and crosswalk warrant analysis to determine traffic calming and pedestrian crossing improvement options for Lakeshore Drive.

West Esplanade Avenue Canal Crossing (Between Williams Boulevard and David Drive)

Scope: Installation of a signalized canal crossing over the West Esplanade Canal (Canal No. 2) to access existing and future commercial developments. **Role:** Project Manager and Lead Civil and Construction Engineer. Designed roadway and traffic signalization for new east and west U-turns. Prepared plans, specifications, and opinion of probable construction cost. Led construction engineering and inspection. Managed inspectors; reviewed RFIs, submittals, and pay applications; and prepared project closeout documentation.

Widening of Causeway Boulevard (Airline Drive to West Napoleon Avenue)

Scope: Widening of 4-lane roadway and area-wide drainage improvements (1.0 miles of roadway and drainage). **Role:** Project Manager and Lead Traffic and Civil Engineer. Leading roadway design, traffic signal design, and preparation of plans, specifications, and opinion of probable construction cost. Designed asphaltic concrete pavement, concrete curb and gutter, pavement markings, sequence of construction, and temporary traffic control plan considering site-related challenges, such as significant traffic demands, limited right-of-way, congestion of existing drainage and utilities, and the need to sequence construction to minimize disruptions to traffic.

Lake Pontchartrain Causeway Southbound Bridge Rail Improvements

Scope: Installation of enhanced steel bridge rails and other miscellaneous repairs (48 miles of steel rail) while maintaining ADT of over 20,000. **Role:** Project Manager and Lead Construction Engineer. Led construction engineering and inspection. Inspected temporary lane closures of over 10 miles long and provided suggested modifications to improve motorist safety. Managed 10 inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; coordinated construction materials testing; prepared change orders; and prepared project closeout documentation.

St. Charles Parish Road Maintenance Program (2009 – 2014)

Scope: Annual inspection of all St. Charles Parish-owned roadways and repair/replacement of deficient roadways. **Role:** Program Manager and Lead Civil Engineer. Led inspections, roadway design, and preparation of plans, specifications, and opinions of probable construction cost. Developed roadway repair/replacement priority lists for the verifiable expenditure of state/federal funds. Designed asphaltic concrete pavement mill/overlay and patching, PCC pavement panel replacement, sidewalk modifications, ADA compliant ramps, and utility adjustments. Led construction engineering and inspection. Managed inspectors; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Brett Liuzza, PE Co-Founder and Principal
Project Assignment:
Project Manager, Traffic Engineer, and Lead Civil Engineer
Name of Firm with which associated:
Horizon Engineering, LLC
Years' experience with this Firm:
0
Education: Degree(s)/Year/Specialization:
BS, 2008, Civil Engineering
Active registration: Year first registered/discipline:
Louisiana PE, License No. 37753, 2013, Civil Engineer Florida PE, License No. 97280, 2023, Civil Engineer
Other experience and qualifications relevant to the proposed Project:
<p>Traffic Engineering Certifications ATSSA Certified Traffic Control Supervisor (TCS), Technician (TCT), and Flagger; LADOTD Traffic Engineering Process and Report (TEPR) Certification</p> <p>Lakeshore Drive Vehicular and Pedestrian Traffic Study Scope: Vehicular and pedestrian traffic study along Lakeshore Drive. Role: Traffic Engineer. Obtained and analyzed volume counts, turning movement counts, and pedestrian counts to assist with the determination of traffic calming and pedestrian crossing improvement options for Lakeshore Drive. Reviewed traffic accident reports, existing roadway geometry (i.e., sight lines/distances), and crosswalk warrant analysis to determine traffic calming and pedestrian crossing improvement options for Lakeshore Drive.</p> <p>Power Blvd. Median Improvements and Pedestrian Traffic Study Review Scope: Installation of a multi-use path and landscaping in the median of Power Blvd. as well as a pedestrian/bicycle truss bridge over Canal No. 1. Role: Construction Engineer. Managed inspectors; reviewed RFIs, submittals, and pay applications; coordinated material testing; and prepared change orders. During construction, re-evaluated the location of a pedestrian crossing at Vintage Dr. and prepared a report that identified an improved crossing location based on vehicular and pedestrian traffic data as well as existing site features.</p> <p>Widening of Causeway Boulevard (Airline Drive to West Napoleon Avenue) Scope: Widening of existing 4-lane roadway and area-wide drainage improvements (1.0 miles of roadway and drainage). Role: Traffic and Civil Engineer. Assisting with roadway design, design coordination and review, traffic signal design, and preparation of plans, specifications, and opinion of probable construction cost. Design review of asphaltic concrete pavement, concrete curb and gutter, pavement markings, sequence of construction, and temporary traffic control plan while accounting for site-related challenges, such as significant traffic demands, limited right-of-way, congestion of existing drainage and utilities, and the need to sequence construction to minimize disruptions to traffic.</p> <p>MacArthur Interchange Completion Scope: Construction of entrance/exit ramps for Westbank Expressway and relocation of frontage road and associated utilities. Role: Civil Engineer. Prepared plans, specifications, and opinion of probable construction cost and designed roadway geometric layout.</p>
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Jefferson Parish Submerged Roadways Program

Scope: Evaluation of Hurricane Katrina related roadway damage and repair/replacement of deficient roadways (85 PCC pavement streets and 8 miles of asphaltic concrete roadway). **Role:** Civil Engineer. Evaluated roadway damage; prepared plans, specifications, and opinion of probable construction cost; and designed asphaltic concrete pavement milling/overlay and patching, PCC pavement panel replacement, sidewalk modifications, ADA compliant ramps, utility adjustments, and adjustments to drop inlets, manholes, and other drainage structures in the roadway. Reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.

Milneburg Group B (FRC) Streets

Scope: Replacement of roadway and drainage, sewer, and water improvements. **Role:** Project Manager and Lead Civil Engineer. Led roadway design and preparation of plans, specifications, and opinion of probable construction cost. Designed roadway, driveway, and sidewalk geometric layout, asphaltic concrete pavement, and concrete curb and gutter. Led construction engineering and inspection. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.

Seawall Erosion Control Paving Project (Reaches 1A-1C, 2A-2D, 3A-3C, 4, 5, and 5B)

Scope: Fortification of the Lake Pontchartrain seawall and roadway, drainage, and lighting improvements (5.2 miles long). **Role:** Project Manager and Lead Civil Engineer. Led roadway design and preparation of plans, specifications, and opinion of probable construction cost. Designed roadway and erosion control pavement geometric layout, grading, pavement markings, parking lots, pedestrian crossings, and permanent signage. Led construction engineering and inspection. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.

Grafton Drive Pavement Rehabilitation

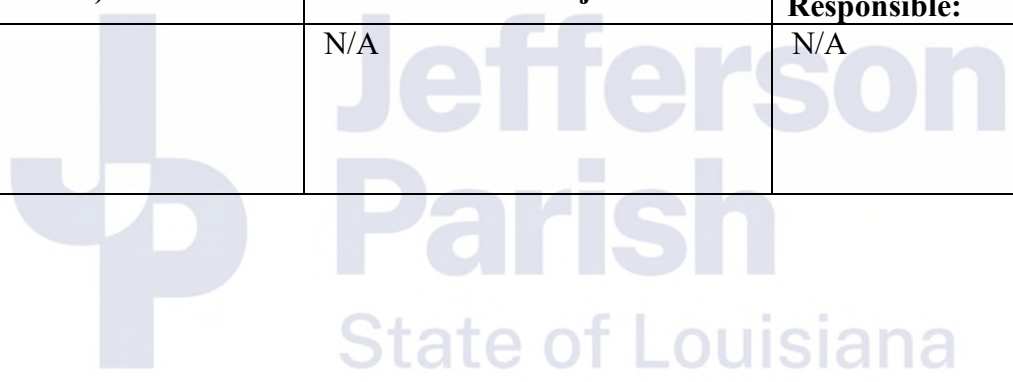
Scope: Repair/replacement of deficient PCC pavement panels, curb, driveways, and handicap ramps. **Role:** Project Manager and Lead Construction Engineer. Led construction engineering and inspection. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; coordinated construction materials testing; developed adjustments to drop inlets, manholes, and other drainage structures in the roadway; prepared change orders; and prepared project closeout documentation.

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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:	
N/A	<p>As a new firm founded only one month ago, we have the available capacity to quickly complete work and will make any awarded project our top priority. Although we have not completed any projects yet as a firm, our staff has over 35 years of combined experience delivering successful infrastructure projects across Louisiana, including numerous projects for Jefferson Parish. Please see Sections K and N for additional information regarding the expertise and experience of our staff and the projects that they have worked on.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
N/A	N/A	N/A



TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary. None

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

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

Horizon Engineering, LLC (Horizon) was recently founded by three Louisiana engineers with over 35 years of combined experience delivering successful infrastructure projects across Louisiana. Our principals have worked together for over 10 years and have an extensive and complementary skillset that encompasses traffic, civil, and structural engineering.

Horizon's principals serve as our lead design and construction engineers and are always available to respond to Jefferson Parish's needs. All of our principals were born and raised in southern Louisiana (John Karlin was born and raised in Jefferson Parish) and care deeply about our region. Ben Bartlett and John Karlin are both current Jefferson Parish residents. We have a personal connection to our work and are deeply invested in the success of our projects.

KEY STAFF

Ben Bartlett, PE, PTOE
Lead Traffic Engineer and Civil Engineer

Brett Liuzza, PE
Traffic Engineer and Lead Civil Engineer

John Karlin, SE, PE
Traffic Engineer and Lead Structural Engineer

We are committed to quality and efficiency. Our goal is to help Jefferson Parish get the most out of the available budget. We leverage technology to minimize our overhead costs and maximize the productivity of our engineers.

Horizon's ability to satisfy each of the evaluation criteria is summarized below.

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

1. Professional training and experience (35 points)

Horizon's staff consists of highly educated, trained, and experienced traffic, civil, and structural engineers. All of our engineers are licensed professional engineers in Louisiana and have completed graduate level coursework. Our staff has a unique combination of experience in both design and construction, which enables us to identify potential constructability issues during the design phase and reduce the potential for costly change orders during construction.

Our professional development program ensures that our staff remains up to date with the latest industry advancements, such as software, analysis/design methods, materials, and construction methods. Each of our engineers are certified by the American Traffic Safety Services Association (ATSSA) as a Traffic Control Supervisor (TCS), Technician (TCT), and Flagger and the Louisiana Department of Transportation and Development (LADOTD) for the Traffic Engineering Process and Report (TEPR).

Ben Bartlett, PE, PTOE is a Professional Traffic Operations Engineer and will serve as a Project Manager, Lead Traffic Engineer, and Civil Engineer for this project. He has significant traffic engineering experience including vehicular and pedestrian traffic studies and design and construction administration for traffic signals, signage, temporary traffic control, safety features, and pavement markings.

Brett Liuzza, PE will serve as a Project Manager, Traffic Engineer, and Lead Civil Engineer for this project. His extensive roadway design and construction experience will facilitate the proper implementation of traffic engineering features to both new and existing roadways.

John Karlin, SE, PE will serve as the Professional-in-Charge for this project and will also serve as a Traffic Engineer and Lead Structural Engineer. In addition to assisting with traffic engineering tasks, he will provide structural engineering support for overhead sign supports, traffic signals, barriers, guardrails, and other related traffic engineering features.

2. Size of firm (10 points)

Horizon has sufficient personnel to perform a variety of traffic engineering tasks in accordance with Jefferson Parish and LADOTD requirements, such as:

- Data collection, including volume, turning movement, and driveway/median opening counts; peak period observations; speed studies; travel time runs; and geometric field reviews
- Data analysis, including peak period and peak hour determination; growth rate determination; unmet demand determination; volume balancing; unbalanced and balanced volume map preparation; warrant analysis; crash report review; and collision diagram preparation
- Conceptual planning, including existing and no-build analysis; Tier 1, 2, and 3 analyses; Access Justification Report preparation; conceptual geometric layout; and alternative comparative evaluation matrix preparation
- Design and preparation of plans and specifications, including signage layouts; traffic signals; barriers, guardrails, and other safety features; overhead sign supports; and temporary traffic control and detour route plans
- Construction administration, including Request for Information (RFI), submittal, pay application, and construction schedule review
- Construction engineering and inspection

We have the ability to hire additional field personnel if necessary to facilitate the installation of traffic count equipment for large-scale projects.

3. Capacity for timely completion of newly assigned work (20 points)

As a new firm, we have the available capacity to quickly complete work and will make any awarded project our top priority.

4. Past performance by person or firm (10 points)

As a new firm founded only one month ago, Horizon has not completed any projects yet as a firm; however, Horizon's staff has successfully completed projects for

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.

numerous clients, such as:

- Jefferson Parish
- United States Army Corps of Engineers (USACE)
- Louisiana Department of Transportation and Development (LADOTD)
- Louisiana Coastal Protection and Restoration Authority (CPRA)
- Southeast Louisiana Flood Protection Authority – East (SLPFA-E)
- Port of New Orleans
- Greater New Orleans Expressway Commission (GNOEC)
- Lakefront Management Authority (LMA)
- Sewerage and Water Board of New Orleans (SWBNO)
- St. Charles Parish
- City of New Orleans
- City of Kenner
- City of Slidell
- City of Covington
- City of Mandeville
- Numerous private clients

Please see Section K for additional information regarding the projects our staff has completed. Our staff has worked on many projects for Jefferson Parish. We are very familiar with Jefferson Parish's requirements.

Our staff has led major traffic engineering projects for Jefferson Parish, such as the US 90 / Jefferson Hwy. at LA 3046 / Causeway Blvd. Traffic Study, which consisted of 14 volume count locations, 12 turning movement count locations, 17 driveway/median opening count locations, and associated data analysis in accordance with LADOTD TEPR requirements. Other types of traffic engineering projects completed by our staff include pedestrian traffic studies, parking lot traffic

studies, and design/construction projects involving temporary traffic control and detour route plans, traffic signals, crosswalks, pavement markings, signage, and safety improvements.

5. Location of the principal office (15 points)

Horizon is a local small business. Our principal office is centrally located in Jefferson Parish at 1013 N. Causeway Blvd.; therefore, we can be nearly anywhere in the Parish in less than 15 minutes, including project sites, the Traffic Engineering Division on Dickory Avenue, and the Engineering Department in the Yenni Building.

6. Adversarial legal proceedings (15 points)

Horizon is not involved in and has never been involved in any legal proceedings with the Parish.

7. Prior successful completion of projects (15 points)

As a new firm founded only one month ago, Horizon has not completed any projects yet as a firm; however, Horizon's staff has successfully completed many projects for Jefferson Parish and other clients throughout southeast Louisiana. If selected, our staff will provide the same expertise and experience that it has on previously completed Parish projects. Please see Criterion 4, Past performance by person or firm and Section K for additional information.

WHY SELECT HORIZON ENGINEERING, LLC?

Horizon has the expertise and experience to deliver quality projects on time and within budget. We appreciate your consideration of our Statement of Qualifications and we hope to partner with you to improve the infrastructure of Jefferson Parish.

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

Signature: 

Print Name: John Karlin, SE, PE

Title: Co-Founder and Principal

Date: January 25, 2024