



March 31, 2022

Parish of Jefferson Government

**Via Electronic Submission /
Central Bidding**

RE: Jefferson Parish Government – Statement of Qualifications (TEC)
Routine Engineering Services for Drainage Projects
SOQ No. 22-011 – Resolution No. 138811

Dear Sir or Madam:

C. H. Fenstermaker & Associates, L.L.C. is pleased to submit our Statement of Qualifications / TEC Professional Services Questionnaire to provide Routine Engineering Services for Drainage Projects relative to any upcoming projects located in the Parish of Jefferson. Fenstermaker has provided engineering services within the State of Louisiana for over 70 years. Today, the firm has nearly 300 full-time employees and continues to be a firm of choice for many of our clients across the State and region.

Joining the Fenstermaker Team is the highly respected firm of Terracon, who will provide expertise and services in geotechnical engineering.

The Fenstermaker Team will provide Jefferson Parish with the following benefits to ensure successful project completion:

- ✓ *Trusted leadership*
- ✓ *Successful completion of past drainage improvement projects*
- ✓ *Local knowledge*
- ✓ *Office Location in New Orleans*

A diligent review of SOQ No. 22-011 has been performed. Know that our Fenstermaker personnel, who are a part of the local community and are familiar with the Jefferson Parish area, clearly understand the scope of services which may be required for any drainage projects in the area. Jefferson Parish Government will have our firm commitment to provide professional services on-time and on-budget.

Thank you for the opportunity to present our credentials and we look forward to hearing from you. Should you have any questions regarding our submittal or qualifications, please do not hesitate to contact Professional in Charge, Stefan Bourgeois, or Angelle Guilbeau, who is authorized to contractually obligate the firm.

C. H. FENSTERMAKER & ASSOCIATES, L.L.C.

Stefan Bourgeois

Stefan Bourgeois, P.E.
Professional in Charge
stefan@fenstermaker.com
(504) 582-2201

Angelle Guilbeau

Angelle Guilbeau
Director of Risk Management and Compliance
angelleg@fenstermaker.com
(337) 237-2200

Attachment

1100 Poydras Street, Suite 1550 | New Orleans, LA 70163 | (504) 582-2201 phone | (504) 582-2210 fax
www.Fenstermaker.com

Technical Evaluation Committee (TEC) Questionnaire

Instructions

- The Technical Evaluation Committee (TEC) Questionnaire shall be used for professional services related to architecture, engineering, or survey projects.
- The TEC Questionnaire must be completely filled out. Complete ALL sections. Insert “N/A” or “None” if a section does not apply or if there is no information to provide.
- Questionnaire must be dated and signed by an authorized representative of the Firm.
- All subcontractors must be listed in the appropriate section of the Questionnaire. All subcontractors must provide a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.
- Failure to properly complete this TEC Professional Services Questionnaire will result in the proposal being deemed not qualified pursuant with Section 2-928(a) of the Jefferson Parish Code of Ordinances, and the proposal will not be evaluated or scored.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Jefferson Parish Government
SOQ No. 22-011 Routine Engineering Services for Drainage Projects
Resolution No. 138811

B. Firm Name & Address:

C. H. Fenstermaker & Associates, L.L.C.
1100 Poydras Street, Suite 1550
New Orleans, LA 70163



C. H. Fenstermaker & Associates, L.L.C.

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:

Stefan Bourgeois, P.E., Manager, Engineer
1100 Poydras Street, Suite 1550
New Orleans, LA 70163
(504) 582-2201; stefan@fenstermaker.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.

Stefan Bourgeois, P.E., Manager, Engineer
1100 Poydras Street, Suite 1550
New Orleans, LA 70163
(504) 582-2201; stefan@fenstermaker.com

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

<u>39</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>0</u> Geologists	<u>0</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>2</u> Geotechnical Engineers	<u>0</u> Graduate Engineers
<u>24</u> Civil Engineers	<u>0</u> Interior Designers	<u>21</u> Project Managers
<u>8</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>7</u> Clerical
<u>10</u> Ecologists	<u>48</u> Land Surveyor (field crew)	<u>2</u> Grant/Funding Specialist
<u>0</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>24</u> Engineer Intern	<u>1</u> Environmental Engineers	<u>13</u> Land Surveyors
<u>13</u> Professional Land Surveyors	<u>4</u> CADD Technicians	<u>53</u> Other Survey Staff
		<u>31</u> Other Staff
		<u>300</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.

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

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. Terracon 524 Elmwood Park Boulevard Suite 170 New Orleans, LA 70123 	Geotechnical Engineering	Yes

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:

Stefan Bourgeois, P.E. - Manager, Engineer

Project Assignment:

Professional In Charge of Project

Name of Firm with which associated:

C. H. Fenstermaker & Associates, L.L.C.

Years' experience with this Firm:

12 years

Education: Degree(s)/Year/Specialization:

B.S. / 2009 / Civil Engineering

Active registration: Year first registered/discipline:

2014 / Louisiana PE #0038623

Other experience and qualifications relevant to the proposed Project:

Stefan Bourgeois, P.E. is a Senior Engineer with over 13 years of professional experience in design, planning, municipal code development and review, construction engineering, and project management. He is the Office Manager for Fenstermaker's New Orleans office. In addition to Mr. Bourgeois' experience in municipal engineering and management, he has been the engineer of record for the design of various project types such as hydrologic and hydraulic modeling and analysis, sewer lift station design, wastewater treatment design, and structural design.

FEMA RR021 - Central City Group A, New Orleans, LA: The City of New Orleans Department of Public Works selected Fenstermaker to provide baseline and topographic survey, roadway and utility design, and construction administration for full street reconstruction in the Central City neighborhood. Replacement of waterlines were included on several streets and waterline designs were provided by the Sewerage and Water Board. Mr. Bourgeois is leading the project team in the construction administration phase.

FEMA RR045 – Filmore South Group D (FRC), New Orleans, LA: Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street reconstruction in the Filmore South neighborhood. Mr. Bourgeois is the engineer of record and project manager. The provided services include topographic and right-of-way surveys, roadway and drainage design, final design (construction documents), bid & award services, construction administration, construction close out, inspection, reporting, and verification. The design is following FEMA guidelines as well as the guidelines set forth by City of New Orleans Department of Public Works.

Richard Street Drainage Improvements (FEMA No. 0216) (Lafayette Parish, LA) Mr. Bourgeois assisted in the completing the initial grant application for this City of Carencro project which included the feasibility study as well as the benefit cost analysis. In addition, he worked on the Phase 1 design, and assisted in the Phase 2 construction and grant management between the City of Carencro and GOHSEP. This project included the installation of over 700' of concrete vertical wall channel and articulated block mats to stop erosion and protect homeowners.

TEC Professional Services Questionnaire


Continued - Other experience and qualifications relevant to the proposed Project:

Stefan Bourgeois, P.E.

Andre St. Drainage and Utility Improvements (Lafayette Parish, LA) Mr. Bourgeois served as the project engineer and directed all efforts related to the project such as design, survey, geotechnical coordination, right-of-way, and servitude acquisitions, plans production, and utility coordination. This project consisted of improving approximately 1,200 feet of drainage channel by lining it with concrete lining and articulated block mat. One major lift station was upgraded in the project to allow for the channel improvements. The new lift station serves as Carencro's largest lift station, pumping up to 3.2 MGD for present day demand and 9.5 MGD for the 20-year planning period. The project consisted of a 16" sewer force main and 21" sewer gravity main.

City of Carencro Engineer, General Engineering Contract (Carencro, LA) In 2013, Mayor Glenn Brasseaux formally selected and delegated Mr. Bourgeois as the official city engineer of the city. With a population of over 10,000, the City of Carencro is becoming one of the fastest growing communities in the state. During Mr. Bourgeois' tenure as city engineer, he was instrumental in working with both the city and parish to update the city's land use and flood plain ordinances to deal with the repetitive flooding history the city had incurred. Mr. Bourgeois collaborated with surrounding regions and Region 6 FEMA staff to establish better policy recommendations for the city's mayor and council for ordinance adoption. Mr. Bourgeois instituted a new development review policy due to the increase flux in both residential and commercial development along the I-49 corridor. This policy focused on the development of a comprehensive checklist for the review process of hydrologic and hydraulic analysis when submitted by various engineers of record representing these new developments. This process helped streamline consistency in analysis approach and held developments to a higher standard that what was accustomed to in the region regarding floodplain management, land use, and development ordinances. Upon completing his term as city engineer, Mr. Bourgeois became the assistant city engineer and continues to provide engineering services for development reviews and floodplain management for the city.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Jeanne Hornsby, M.S., P.E., CFM – Director, Engineer
Project Assignment:	Engineer
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	16 Year
Education: Degree(s)/Year/Specialization:	M.S. / 2005 / Hydraulics and Environmental Engineering B.S. / 2007 / Civil Engineering
Active registration: Year first registered/discipline:	2011 / Louisiana PE #0036717 2021 / Certified Floodplain Manager No. US-19-10976
Other experience and qualifications relevant to the proposed Project:	
	<p>Ms. Hornsby is an Engineering Director at Fenstermaker with 18 years of engineering, project management, and quality control experience. Her main responsibilities include managing, designing, and completing quality control on multi-million-dollar projects that range from roadway design and construction to coastal and storm water management for both the public and private sectors. Ms. Hornsby currently leads Fenstermaker's Water Resources Team and her expertise has developed through the successful completion of numerous numerical modeling analyses, roadway drainage designs, and stormwater master plans in Louisiana, Texas, and Florida. She has also worked closely with the LADOTD on roadway design projects and Environmental Impact Statements. This expertise and experience have made Ms. Hornsby a qualified quality control manager. She has held this role on various projects and has completed quality reviews for agencies, including Calcasieu Parish Police Jury, Lafayette Consolidated Government, CPRA, LADOTD, City of Scott, and City of Carencro. Ms. Hornsby was instrumental in generating the current quality control process for Fenstermaker's engineering division.</p> <p>Software & Training: Ms. Hornsby is well versed in a variety of hydrologic and hydraulic software and applications including the USACE HEC suite (HEC-HMS, HEC-RAS, HEC-DSS, HEC-METVUE, HEC-FIA), LADOTD HYDRWIN Software, Danish Hydraulic Institute (DHI) MIKE Suite, and accompanying GIS applications. Ms. Hornsby is a certified floodplain manager.</p> <p>LCG 2020 Drainage Master Plan, Phase 1: Drainage Maintenance Program (Lafayette Parish, LA) Technical Advisor & Engineer: Fenstermaker has been contracted to develop proactive drainage maintenance program. The project includes completing an inventory of the City's drainage staffing levels, equipment, and funding requirements; holding workshops with Parish Staff from maintenance, public works, finance, and civil service to review process and procedures; developing crew, equipment, and contracting options to reduce Requests for Services from an 18-month backlog to four months; prioritizing proactive drainage maintenance for roadside ditches, subsurface drainage, and laterals to reduce service request response time; creating a Story Map for all drainage information in which this webpage will include informative information as well as the capability to track ongoing and future project status. Ms. Hornsby worked with the Parish to develop a maintenance plan and prioritization.</p>

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Jeanne Hornsby, M.S., P.E., CFM

Andre Street Drainage – City of Carencro (Lafayette Parish, LA) Ms. Hornsby was responsible for preparing a hydraulic analysis based upon an existing FEMA HEC-RAS model for this GOHSEP HMGP funded project. The structural integrity of the Beau Bassin coulee near Andre Street was threatened by severe erosion, causing property loss and damage to buildings and fences in the surrounding area. It was determined that the proposed trapezoidal concrete and articulated block matting-lined channel would cause a decrease in water surface elevation and protect against future erosion. Ms. Hornsby aided in the application and securing federal funding from FEMA's HMGP program because of the nearly 500-year storm event in 2012.

Calcasieu Parish Regional (HUC 8) Watershed Modeling & Planning (Calcasieu Parish, LA) Ms. Hornsby is the lead client contact, project manager, and lead hydraulic modeler directly responsible for all aspects of the project including developing one- and two-dimensional watershed models (Using HEC-HMS and HEC-RAS), developing future planned conditions, developing floodplain and watershed management ordinances, evaluating mitigation projects utilizing the Deltares Dynamic Adaptive Pathways and Policies (DAPP) process, completing a detailed hydraulic inventory, updating their flood alert system, generating a drainage report card, and conducting all public and agency meetings.


City of Scott Drainage Improvement Plan (Lafayette Parish, LA) Ms. Hornsby served as the principal-in-charge to develop the Drainage Improvement Plan for the City of Scott to be used as an adaptive document that is to be utilized as a resource for day-to-day activities. Fenstermaker was contracted to provide the following services: update the city's drainage inventory, prioritizing channel clearing/grading, identifying channel modifications/increase capacity, prioritizing ditch cleaning, prioritizing bridge replacements and upgrades, identifying cross drain, storm sewer, and detention facility maintenance and upgrades, open space identification, and finally capital improvement projects. Fenstermaker identified funding sources including HMGP, CDBG, DOTD, and USACE for implementation of proposed projects. Ms. Hornsby has aided in securing approximately \$3.5 million in funding through HMGP.

LaDOTD Contract No. 4400017090 Louisiana Watershed Initiative Region 4 (De Soto, Sabine, Vernon, Rapides, Beauregard, Allen, Jefferson Davis, Calcasieu, and Cameron Parishes) Ms. Hornsby is serving as the Lead Hydrologic & Hydraulic Engineer for the Louisiana Watershed Initiative Region 4, an unprecedented project that will manage the future flood risk in the State of Louisiana through watershed-based solutions. Ms. Hornsby is responsible for the oversight of all hydrologic and hydraulic tasks, data collection, model development, and engineering to successfully complete an interactive, usable, and manageable hydraulic and hydrologic Region 4. These models will consider the degree to which communities within a watershed are hydraulically and hydrologically connected, and will lead decisions regarding land use, policy, and infrastructure must now be coordinated, made, and implemented at the watershed level if flood risk is to be effectively managed.

Ile des Cannes Watershed Study (HUC 10) & Physical Map Revision (Lafayette Parish, LA) Fenstermaker was contracted to develop a hydrologic and hydraulic numerical model and map the flood zones and floodways of the Ile de Cannes Watershed. Ms. Hornsby developed an unsteady HEC-RAS model, calibrated and validated the model using data collected from two storm events, then used the model to determine the 100-year flood extents. She assisted in the preparation of the Letter of Map Revision (LOMR) submittal to FEMA resulting in a Physical Map Revision that impacted 11 Flood Insurance Rate Maps panels. This effort is estimated to be the largest LOMR prepared in the U.S.

FEMA Model Analysis and Review; FEMA Community Rating System (CRS) Management (Lafayette Parish, LA) Fenstermaker has been working with the Lafayette Consolidated Government, as well as the Cities of Scott and Carencro, to finalize the Lafayette Parish FEMA flood maps. Ms. Hornsby assisted in the review of the preliminary FEMA flood maps and models, the completion of the field investigation and structure inventory, and the development of the FEMA appeals. Ms. Hornsby also reviewed FEMA's response and adjustments to the models and maps based on the appeal.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	William Katzenmeyer, P.E., CFM - Engineer II
Project Assignment:	Engineer
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	1 Year
Education: Degree(s)/Year/Specialization:	B.S. / 2008 / Civil Engineering
Active registration: Year first registered/discipline:	2011 / Louisiana PE #0036775 2021 / Certified Floodplain Manager No. US-21-11950
Other experience and qualifications relevant to the proposed Project:	
	<p>William Katzenmeyer, P.E., CFM is a Professional Engineer with over 13 years' experience working in South Louisiana and the New Orleans Metropolitan area. His areas of expertise include project management, design engineering, and FEMA PA disaster grant management. His design engineering experience includes roadway and drainage design, stormwater management including green infrastructure, hydrologic and hydraulic modeling, stormwater and sewer pumping stations, utility design, heavy construction, and site development.</p> <p>Louisiana Watershed Initiative (LWI) Applications (Cameron and Lafayette Parishes, LA) Engineer: Mr. Katzenmeyer provided technical assistance in the development of Hydrologic and Hydraulic Modeling reports and Benefit Cost Analysis for proposed property acquisitions in the City of Scott including detailed scope of work, budgetary costs and scheduling for LWI application submittals. Also prepared technical report for Cameron Parish shoreline stabilization work at Little Florida Beach, including observational shoreline erosion rate estimates, Benefit Cost Analysis, and grant application development.</p> <p>Multiple HMGP-Funded Channel Improvement Projects (East Baton Rouge Parish, LA) Lead Engineer: Mr. Katzenmeyer is serving as engineering lead for multiple channel improvement projects in the City of Baker (Bozeman Creek, North Canal, and Brushy Bayou) including H&H model development, project scoping and cost reasonableness, grant coordination and plan production.</p> <p>Regional Watershed Modeling (Calcasieu Parish, LA) Mr. Katzenmeyer is currently responsible for preparation of 2-Dimensional HEC-RAS regional watershed model for Ward 1 of Calcasieu Parish.</p> <p>17th Street Canal Widening Between Hoey's Canal and Airline Drive (Linfield, Hunter, and Junius, Inc.) (Jefferson Parish, LA) Mr. Katzenmeyer was responsible for the preparation of drainage plans and specifications and coordination of structural and roadway design elements into the project plans and specifications, including engineering, drafting, cost estimation and bid phase support activities. The project consisted of the construction of approximately 700 liner feet of a ten (10) foot high pile-supported concrete floodwall, 750 linear feet of a two (2) foot high retaining wall, pile-supported concrete slope paving, removal of existing timber canal bottom and slope paving, reconstruction of concrete roadway, and performing other incidental construction.</p>

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

William Katzenmeyer, P.E., CFM

City Barn Pump Station Drainage Improvements (HMGP Project Number 1603-0321) (Stuart Consulting Group) (St. Tammany Parish, LA) Mr. Katzenmeyer provided technical assistance to the Project Management team during the design of the City Barn Pump Station Project, including technical review of preliminary design submittals, and strategic planning for Environmental and Historic Preservation permitting, which resulted in a Finding of No Significant Impact for the proposed scope of work and design alternatives. The Project scope included the installation of larger pumps within the existing pumping station footprint, new discharge piping, and an additional 2,000-gallon elevated diesel storage tank.

OSP-03 Perimeter Protection for Carrollton Water Treatment Plant-Power Complex (Orleans Parish, LA) Civil Engineer responsible for report phase investigations and conceptual layout, report preparation, cost estimates, preliminary hydraulic investigations, and MicroStation CADD Drafting. Also responsible for preliminary hydraulic design of drainage system alternatives and stormwater/sewer pumping station sizing and siting. This project evaluated various levee (berm) and floodwall alignments for the mitigation of potential flood hazard to the facility's operation. This facility encountered significant flooding after Hurricane Katrina that impacted the availability of drinking water and fire protection across the entire east bank of Orleans Parish, as well as power generation facilities which were critical for the operation of drainage pump and sewage treatment infrastructure across the entire parish. Various alignments and project scopes were evaluated for protection of various power generation facilities as well as design alternatives which would also protect the integrity of the water treatment system and/or maintain pumping and fire protection abilities in a similar disaster.


Dillard University Improvements, Orleans Parish, LA: Mr. Katzenmeyer was the civil engineer responsible for preparing plans and specifications for multiple utility and drainage projects. Dillard University selected LH&J to design multiple infrastructure projects including improvement of the campus-wide drainage facilities, roadways, parks, bioswales, and the construction of low-impact design pervious parking lots for LEED certification. Additional projects included multiple building utility site plans, lift station improvements, 12" waterline improvements for fire services to new buildings. Mr. Katzenmeyer provided a gamut of consulting, scoping, design, bidding, and construction management services.

Cuddihy Drive and Woodvine Avenue Drainage Improvements, Jefferson Parish, LA: Mr. Katzenmeyer was the civil engineer responsible for the engineering design and preparing of plans and specifications, bidding, and construction management. The project consisted of upgrading the subsurface drainage system along the length of Cuddihy Drive and a part of Woodvine Avenue and full reconstruction of roadway and drainage and utility infrastructure within the public right of way. The goal of the project was to mitigate frequent roadway flooding events which were being caused by long-term differential settlement of the subgrade materials and substandard drainage infrastructure.

Phase 1 H&H Analysis and Final Design for Multiple Projects: River Road, Skinner Drive and David Drive Drainage Improvements (HMGP) (Quality Engineering & Surveying, LLC) (Tangipahoa Parish, LA) Mr. Katzenmeyer performed all Phase I HMGP activities consisting of Hydrologic and Hydraulic investigations, Modeling, FEMA Benefit Cost Analysis and Preparation of Final Plans and Specification, totaling more than \$7M in total project costs. Scope of work for drainage improvements included channelization and scour protection for over 2 miles of existing channels, upgrading culvert structures and installation of subsurface drainage in existing subdivisions to mitigate flood hazards.

Bayou Conway Pumping Station - Phase II HMGP H&H Study - Quality Engineering & Surveying, LLC (Ascension Parish, LA) Mr. Katzenmeyer was responsible for authoring the Phase II H&H Study for this HMGP project that involved the installation of a second pumping station structure at Bayou Conway in Sorrento, LA, totaling 700CFS additional capacity. The watershed modeling and hydraulic analysis also included preparation of the benefit cost analysis (BCA).

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Dax Douet, P.E. – Director, Engineer	
Project Assignment:	
Engineer	
Name of Firm with which associated:	
C. H. Fenstermaker & Associates, L.L.C.	
Years' experience with this Firm:	
25 Years	
Education: Degree(s)/Year/Specialization:	
B.S. / 1997 / Civil Engineering	
Active registration: Year first registered/discipline:	
2002 / Louisiana PE #0030170	
Other experience and qualifications relevant to the proposed Project:	
	<p>Dax Douet is an Engineering Director with over 25 years of professional civil engineering experience in design, planning, construction oversight, and project management. Mr. Douet's core experience is in roadway design, transportation corridor studies, line and grade studies, design of roundabouts, environmental assessments, both open channel and subsurface drainage systems, large one and two-dimensional hydrologic numerical modeling, municipal engineering, being a city engineer, public speaking, and project managing large complex, multi-disciplinary projects. Mr. Douet has served as the lead design engineer and project manager on a multitude of various transportation projects ranging from both urban and rural local, collector, and arterial roadways, to large interchange projects on the interstate system. Software & Training: Mr. Douet is proficient in Bentley Software project such as Microstation, Storm and Sanitary, and InRoads; HEC-RAS, LADOTD's HYDRWIN, and DHI MIKE 11/MIKE 21/MIKE FLOOD. Mr. Douet has attended the ATSSA Traffic Control Technician, Traffic Control Supervisor, and Certified Flagger training courses, participated in NHI Course 142005 NEPA and the Transportation Decision Making Process, the LADOTD Highway Safety Manual Course, and the LADOTD Traffic Engineering Process and Report Training Class.</p> <p>LCG 2020 Drainage Master Plan, Phase 1: Drainage Maintenance Program (Lafayette Parish, LA) Project Manager: Fenstermaker was contracted to develop proactive drainage maintenance program. The project includes completing an inventory of the City's drainage staffing levels, equipment, and funding requirements; holding workshops with Parish Staff from maintenance, public works, finance, and civil service to review process and procedures; developing crew, equipment, and contracting options to reduce Requests for Services from an 18-month backlog to four months; prioritizing proactive drainage maintenance for roadside ditches, subsurface drainage, and laterals to reduce service request response time; creating a Story Map for all drainage information in which this webpage will include informative information as well as the capability to track ongoing and future project status. Fenstermaker's scope of services included providing the framework for a Drainage Policy Program, structuring a Drainage Management and Enforcement Plan, proposing a Funding Structure matching the needs of the Plan, developing a Drainage Maintenance Program with the expected timeline for accomplishing maintenance work, and public outreach. Mr. Douet served as the Project Manager for LCG's drainage plan.</p>

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Dax Douet, P.E.

LaDOTD Contract No. 4400017090 Louisiana Watershed Initiative Region 4 (De Soto, Sabine, Vernon, Rapides, Beauregard, Allen, Jefferson Davis, Calcasieu, and Cameron Parishes) Mr. Douet is serving as the Project Manager for this unprecedented project that will manage the future flood risk in Louisiana through watershed-based solutions. Mr. Douet is responsible for the project management and oversight to successfully complete an interactive, usable, and manageable hydraulic and hydrologic Region 4. These models will consider the degree to which communities within a watershed are hydraulically and hydrologically connected, and will lead decisions regarding land use, policy, and infrastructure must now be coordinated, made, and implemented at the watershed level if flood risk is to be effectively managed.

Tete Bayou and Bayou Parc Perdu Watershed Study and Regional Detention Implementation (Iberia Parish, LA) Mr. Douet is the drainage engineer for Iberia Parish. He also served as the lead design engineer in the preparation of construction plans to clean the channel. Mr. Douet assisted in preparation of a FEMA Letter of Map Revision (LOMR) to update the existing FEMA FIRM maps in areas within the basin identified as having a Flood Zone "A" designation by establishing new base flood elevations and revising these "A" zones to "AE". Mr. Douet is responsible for all numerical modeling, engineering hydraulic design, preparation of construction plans, construction management, and overall project management.

Post Storm Services – March 2012 and August 2016 (Lafayette, Iberia & Acadia Parishes, LA) In August of 2016, several parishes within the Region 5 watershed experienced historical rainfall and flooding. To capture high water marks and perform post storm numerical modeling, Mr. Douet aided the team in developing hydrologic and hydraulic one and two-dimensional HEC-HMS and HEC-RAS models using this storm data to predict future flooding in areas having both unmapped and Zone X FEMA FIRM designations. These analyses were to perform better floodplain management using best available data for these unmapped and non-flood zones that experienced flooding. Mr. Douet aided in the quality control review of HEC-RAS geometry, boundary conditions, rainfall data, and performed an overall assessment of the validity of the results.

Upper West Fork Cypress Bayou Watershed Plan-EA (Bossier Parish, LA) Mr. Douet is currently serving as the Deputy Project Manager for the NRCS and Town of Plain Dealing Upper West Fork Cypress Bayou Watershed Plan-Environmental Document. Fenstermaker is serving as the prime consultant in developing a supplemental watershed plan and environmental assessment in accordance with current USDA-NRCS and LADOTD state dam safety criteria. The Plan-EA will describe alternatives and examine reasonable alternatives in detail and identify the preferred alternative as the most technically, economically, socially, and environmentally defensible alternative in consultation with, NRCS.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Luke Hebert, P.E., CFM – Director, Engineer

Project Assignment:

Engineer

Name of Firm with which associated:

C. H. Fenstermaker & Associates, L.L.C.

Years' experience with this Firm:

18 Year

Education: Degree(s)/Year/Specialization:

B.S. / 2003 / Civil Engineering

Active registration: Year first registered/discipline:

2009 / Louisiana PE #0034715

Certified Floodplain Manager No. US-17-09739

Other experience and qualifications relevant to the proposed Project:


Luke Hebert is a Professional Engineer with over 19 years of experience in engineering design, planning, and project management. During his career, Mr. Hebert has been part of many different types of designs ranging from various roadway types (i.e., local, collector, arterial and freeway), surface and sub-surface drainage systems, water and sewer distribution system and water and sewer treatment. In 2013 Mr. Hebert was appointed by the Mayor of Carencro as the engineer for the City. One of his main focuses is working with developers on new commercial and residential developments. Since 2013 Mr. Hebert has been involved with over 20 new developments located within the City of Carencro and has managed them through planning, construction, and final acceptance. He has also provided Application Preparation, Program Management and Design Services to the City for Community Development Block Grants (CDBG), Facility Planning & Control (FP&C)–Capital Outlay, FEMA, USACE/DOTD, U.S. Dept. of Agriculture (USDA) Loan, Office of Community Development–Community Water Enrichment Fund, and Louisiana Dept. of Health. In total, Mr. Hebert has assisted the City with the acquisition and management of nearly \$18 Million in Federal and State project funding and lead the City to a FEMA Community Rating System Class 7.

500-Year Flood Recovery for City of Carencro (Lafayette Parish, LA) On March 12, 2012, the City of Carencro was inundated with over 14 inches of water in one morning amounting to nearly a 500-year storm event resulting in emergency rescues and wide-spread property damage. Many of the City's wastewater, stormwater, and roadway infrastructures were severely damaged or destroyed. As Mr. Hebert was the City Engineer, he was assigned as project manager when Fenstermaker was hired to survey and map high water marks throughout the City, as well as quantify the amount of inundation and damage to the infrastructure. Fenstermaker led a nearly four-year collaboration with FEMA and GOHSEP to identify improvement projects that would repair and protect the City's infrastructure from the 500-year storm event. Fenstermaker secured federal funding from FEMA's Hazard Mitigation Grant Program (HMGP) for four additional projects because of the flood events.

Fabacher Bridge Replacement & Channel Improvements (Acadia Parish, LA) For the replacement and improvement of this four-span concrete bridge., Mr. Hebert contributed to plans for drainage improvements, hydrologic study, and statewide flood control application.

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Luke Hebert, P.E., CFM

Andre St. Drainage and Utility Improvements (Lafayette Parish, LA): This project consists of improving approximately 1,200 feet of drainage channel with concrete lining and articulated block mat. One major lift station will be upgraded to allow for the channel improvements. The new lift station will serve as Carencro's largest lift station pumping up to 3.2 MGD for present-day demand and 9.5 MGD for the 20-year planning period. The project consists of a 16" sewer force main and 21" sewer gravity main. Mr. Hebert was the project manager and directed all efforts such as design, survey, geotechnical coordination, ROW and servitude acquisitions, plans production, and utility coordination.

Richard Street Drainage Improvements - HMGP 1603-055-0004 (Lafayette Parish, LA) As the project manager Mr. Hebert completed the initial grant application for this project which included the feasibility study as well as the benefit cost analysis. In addition, he completed the Phase 1 design, and oversaw the Phase 2 construction and grant management between the City of Carencro and GOHSEP. This project included the installation of over 700' of concrete vertical wall channel and articulated block mats to stop erosion and protect homeowners.


Post Road Channel Improvements (Lafayette Parish, LA) Mr. Hebert served as Project Manager. This project involved a channel adjacent to a sewer treatment plant experiencing erosion issues. Fenstermaker was contracted to design and oversee the construction of armoring using articulated block matting. Fenstermaker completed a topographic survey of the channel and performed a slope stability analysis which showed continued erosion would likely result in failure of the levee along the oxidation pond. To prevent this, Fenstermaker developed plans and specs that included channel widening and bank protection and hydraulic modeling was completed to determine and mitigate project impacts.

FEMA Community Rating System (CRS) Management (Lafayette Parish, LA) Fenstermaker has assisted both the City of Scott and City of Carencro in their participation in the FEMA Community Rating System Program. Both the City of Scott and City of Carencro have maintained a CRS rating of an 8, resulting in an estimated cost savings of nearly \$80,000 in flood insurance premiums per year for each City. As part of this program Fenstermaker has managed their maintenance activities, developed maintenance plans, completed sensitivity analysis to determine capital improvement priorities, managed their GIS databases and websites, monitored the completion of elevation certificates, completed public outreach projects, and completed their yearly audits and five year renewals. As City Engineer for the City of Carencro, Mr. Hebert served as Project Manager and ensured compliance with FEMA guidelines.


Gaston Coulee Cleaning (Lafayette Parish, LA) Fenstermaker assisted with the preparation of bid documents and specifications for the City of Carencro. The project included the removal of debris and re-grading the coulee from Andre Street South to North University Avenue to allow the coulee to function at its full ability. Mr. Hebert served as Project Manager.

St. Anne Drainage Improvements (Lafayette Parish, LA) Fenstermaker was contracted to provide services for the drainage improvements of St. Anne Street in Carencro. Phase I of the project included increasing the capacity of the existing structure along St. Anne Street from Gaston Coulee to Walter Drive. Mr. Hebert served as Project Manager.


TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Mustafa Afaneh, E.I. - Engineer Intern
Project Assignment:	Engineer Intern
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	1 Year
Education: Degree(s)/Year/Specialization:	B.S. / 2018 / Civil Engineering
Active registration: Year first registered/discipline:	2019 / Louisiana EI #34198
Other experience and qualifications relevant to the proposed Project:	
	<p>Mr. Afaneh is an Engineer Intern with over 2 years of professional experience in engineering design within the traffic, civil, and structural sectors. Under supervision of a licensed engineer, Mr. Afaneh has performed structural and site design for numerous low and midrise structures locally. Mr. Afaneh's expertise extends into foundation, civil and structural engineering. In addition, Mr. Afaneh has successfully served as the lead project coordinator for multiple civil designs including storm water management plans to meet the City's requirements. He is currently assisting the project team with the design and construction phases for various full roadway reconstruction projects here for the City of New Orleans.</p> <p>FEMA RR045 – Filmore South Group D (FRC) (New Orleans, LA) Mr. Afaneh is serving as the Engineer Intern and will be responsible in assisting the project team with preparation of final design, construction documents, and specifications. Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Filmore South neighborhood. Services provided include topographic and right-of-way surveys, roadway and drainage design, environmental study, final design, bid & award services, construction administration, construction close out, and inspection, reporting, and verification. The design is following FEMA guidelines, as well as the guidelines set forth by City of New Orleans Public Works.</p> <p>FEMA RR021 - Central City Group A (New Orleans, LA) The City of New Orleans Department of Public Works selected Fenstermaker to provide baseline and topographic survey, roadway design, and construction administration for streets in the Central City neighborhood. Replacement of waterlines were included on several streets and waterline designs provided by the Sewerage and Water Board was incorporated on others. Mr. Afaneh is assisting with the construction administration phase.</p> <p>FEMA RR105 – Lower Ninth Ward Group C (FRC) (New Orleans, LA) Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Lower Ninth Ward neighborhood. Services being provided include topographic and right-of-way surveying, roadway and drainage design, environmental study, construction bidding services, construction administration, construction close-out and construction inspection. The design is following FEMA guidelines, as well as the guidelines set forth by City of New Orleans Public Works. Mr. Afaneh is assisting the project team in the final coordination and construction administration phase.</p>


TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	O'Bryant Henderson – Inspector III
Project Assignment:	Construction Inspector
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	2 Years
Education: Degree(s)/Year/Specialization:	High School Diploma
Active registration: Year first registered/discipline:	<ul style="list-style-type: none"> NHI Bridge Inspection Certificate USACE Construction Quality Management for Contractors Certification Density Gauge (Nuclear Troxler) and ACI Trained OSHA 30 LADOTD Structural Concrete Inspector/Technician
Other experience and qualifications relevant to the proposed Project:	
	<p>Mr. Henderson has 21 years of construction inspection experience. His primary duties and experience are in inspecting, testing of materials and quality management of structural and reinforced steel, concrete, masonry, piles, and soils. He has years of experience assisting project managers with scheduling, budgeting, reviewing RFI's and submittals, pay apps, and managing inspectors. Before being employed at Fenstermaker, Mr. Henderson worked as a senior resident inspector for the North Terminal Airport, an inspector for LADOTD, and USACE.</p> <p>City of New Orleans Central City Group A (Orleans Parish, LA) Fenstermaker is providing baseline and topographic survey, roadway design, and construction administration for streets in the Central City neighborhood. Fenstermaker's scope includes assessment of existing street conditions including ADA compliance, accessibility and provision for pedestrians, and design of any needed repairs. Mr. Henderson inspected drain and sewer lines for this project.</p> <p>RR 105 Lower Ninth Ward Northeast Group C (Orleans Parish, LA) Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Lower Ninth Ward neighborhood. Services being provided include topographic and right-of-way surveying, roadway and drainage design, environmental study, construction bidding services, construction administration, construction close-out and construction inspection. The design is following FEMA guidelines, as well as the guidelines set forth by City of New Orleans Public Works. Mr. Henderson performed constructability reviews for this project.</p> <p>Various USACE Projects (Jefferson Parish, LA) Mr. Henderson monitored 11 project sites that constructed flood walls, levees, and armoring in New Orleans LPV's. He reviewed WA/WC reports to verify documentation was complete, accurate, and submitted timely. He trained QA's on documenting construction activities using Resident Management System. He developed and tracked construction deficiencies (quality and safety) and ensured corrective measures conformed to the contract requirements.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Mark Dubroc, P.E. - Engineer III
Project Assignment:	Quality Assurance / Quality Control Lead
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	2 Years
Education: Degree(s)/Year/Specialization:	B.S. / 1980 / Civil Engineering
Active registration: Year first registered/discipline:	1987 / Louisiana PE #22618
Other experience and qualifications relevant to the proposed Project:	
	<p>Mr. Dubroc is a Senior Engineer with over 39 years of professional civil engineering experience. As Principal of Dubroc Engineering, Inc. for 23 years, Mr. Dubroc gained extensive experience in civil engineering consulting, with a wide variety of clients and projects including urban and rural roadway and drainage designs, highway bridge design, solid waste transfer facilities, site planning, residential land developments, municipal water and sewer collection systems, and various other civil and structural design projects. His extensive and deeply embedded participation in every aspect of design and construction administration of such a variety of similar projects uniquely qualify him to provide the general oversight and quality assurance necessary for the project at hand. Most recently, Mr. Dubroc served as Public Works Director of Lafayette Consolidated Government, where he managed 335 Public Works employees, with an operating budget of \$58M, an annual Capital Improvement Program of \$50M, and a 5-Year Capital Plan budget of \$250M, which included 375 projects. He managed the Capital Improvements Division, that included the Design & Development Section, ROW Section, Project Control Section and the Estimates and Administration Section. He also managed the Operations Divisions, which included street, drainage and vehicle maintenance divisions, and the Traffic and Transportation Division responsible for traffic engineering, traffic maintenance (signs and markings), traffic signals maintenance transit operations, and parking.</p> <p>Upper West Fork Cypress Bayou EA (Bossier Parish, LA) Fenstermaker will prepare an Environmental Assessment for three dam reservoirs for the Lake System needing rehabilitation for the Town of Plain Dealing, Bossier Parish. This assessment requires Fenstermaker's environmental and survey departments. Mr. Dubroc is responsible for reviewing all data, the survey proposal, the hydrology modeling of the watershed, and for performing quality assurance reviews.</p> <p>S.P. No. H.005508 Verot School Rd. Urban Section (LA 339) Widening and H.005698 Drainage Outfalls (Lafayette Parish, LA): Mr. Dubroc served as the Principal and Project Manager for this \$44.2M project for the widening of 3.3 miles of rural 2-lane open ditch highway to urban 4-lane median-divided and 5-lane arterial roadway with extensive subsurface drainage systems, including major drainage improvements to 3 extensive subsurface drainage systems. Mr. Dubroc provided design engineering for drainage, geometric designs, structural design of culverts, topo and ROW Surveys and maps, and preliminary and final plans for this LADOTD project.</p> <p>Wills Drive Drainage Improvements (Lafayette Parish, LA) Mr. Dubroc served as the principal in charge and project manager for the design of this \$1.5 million project for the improvement of a local urban drainage outfall serving a 285-acre watershed, including 2,036' of reinforced concrete pipe storm drainage ranging in size from 72" RCP to 84" RCP and associated catch basins and yard drains. XP-SWMM 1D modelling and design analysis were utilized for the entire drainage system and watershed. He led the design team for all aspects of Preliminary and Final Plans and Specifications, and Construction Administration for this Lafayette Consolidated Government project.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Travis Bodin, MBA, PLS, PMP Vice President, Survey	
Project Assignment:	
Survey Lead	
Name of Firm with which associated:	
C. H. Fenstermaker & Associates, L.L.C.	
Years' experience with this Firm:	
18 Years	
Education: Degree(s)/Year/Specialization:	
B.S. / 2004 / Industrial Technology MBA / 2021 / Business Administration	
Active registration: Year first registered/discipline:	
2011 / Louisiana PLS # 0005067 2018 / Project Management Professional PMI PMP No. 2269869	
Other experience and qualifications relevant to the proposed Project:	
	<p>Travis Bodin, MBA, PLS, PMP currently serves as Vice President of Survey at Fenstermaker and has over 18 years of surveying, management, and coordination experience. He is currently responsible for directing and overseeing the daily activities within the Fenstermaker Survey Division which consist of both the Houston and Lafayette Offices and over 35 survey crews working across multiple states. He has served as the Lead Professional Land Surveyor for projects across Louisiana. His responsibilities have included the management of surveying/ROW services, utility relocation coordination, coordinating with parish, state, and federal agencies and sub-consultants, cost estimating, scoping, scheduling and planning, resource management, and construction management services. With his background in surveying and project management, Mr. Bodin has performed and participated in multi-million-dollar projects consisting of large scale topographic and bathymetric surveys, development of high accuracy GPS networks, landowner notification and documentation, the development of DTM, infrastructure documentation, GIS integration, process and procedure development. During his tenure at Fenstermaker Mr. Bodin has conducted management duties for both field and office activities on survey and engineering projects. Software & Training: With his wide range of managerial and technical experiences, Mr. Bodin was able to obtain his Project Management Professional (PMP) Certification which is acknowledged by agencies around the world as the leading certification for project managers. Mr. Bodin is experienced in the use of the newest versions of MicroStation, AutoCAD, and Trimble Business Center, Office 365, and Primavera 6.</p> <p>Calcasieu Parish Stormwater Master Plan (Calcasieu Parish, LA) Fenstermaker was contracted to develop a Stormwater Master Plan, covering the Parish's major waterways and drainage basins. The project included data collection, researching prior studies, H&H numerical modeling, an analysis of known flood prone areas and watershed deficiencies, the development and modeling of watershed improvements, and GIS mapping. Mr. Bodin served as the survey manager and managed field crew scheduling, data processing, GIS integration, and survey and mapping within the numerous phases of this project.</p>

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Travis Bodin, PLS, PMP, MBA

Coulee Mine Branch and Tributaries: Hydraulic Re-Study (Lafayette Parish, LA) Fenstermaker provided professional modeling, hydrologic monitoring, and topographic surveying to assist in revising the effective Flood Insurance Rate Map data for Coulee Mine Branch and Tributaries. Mr. Bodin oversaw the survey efforts of the project which consisted of data collection utilizing GPS/RTK technology at key locations within the project area.

Post Storm Services – August 2016 (Acadia, Iberia, and Lafayette Parishes, LA) Following the major flood event that occurred throughout South-Central Louisiana, the City of Scott engaged Fenstermaker to provide mitigation alternatives for future events. The data collection phase of the project included surveying services such as collecting information on existing drainage culverts, high water marks left by the flood event, channel profiles, and roadbed elevations. Mr. Bodin was responsible for the survey effort for this project and oversaw the collection, processing, and delivery of the collected information

Lafayette Parish FEMA Model Analysis and Review; FEMA Community Rating System (CRS) Management (Lafayette Parish, LA) Fenstermaker has been working with Lafayette Consolidated Government, as well as the Cities of Youngsville and Carencro, to finalize the Lafayette Parish FEMA flood maps. Mr. Bodin assisted in the review of the FEMA Flood Map Datums with the Lafayette Parish Flood Plain Administrator, as well as the review of field investigations and structure inventories within key areas of the hydraulic models to validate the data.

Tete Bayou (HUC 12) and Bayou Parc Perdu (3-HUC 12) Watershed Study and Regional Detention Implementation (Iberia Parish, LA) Fenstermaker was contracted to provide a drainage assessment of both the Tete Bayou and Bayou Parc Perdu watersheds. Mr. Bodin supervised all surveying efforts for the project, including the collection of channel profile and cross section information, structure data, the slab elevations of repetitive loss structures, and high-water marks, in conformance with FEMA guidelines and standards.

Louisiana Watershed Initiative Region 4 (De Soto, Sabine, Vernon, Rapides, Beauregard, Allen, Jefferson Davis, Calcasieu, and Cameron Parishes) Mr. Bodin is serving as the Lead Surveyor for the Louisiana Watershed Initiative Region 4, an unprecedented project that will manage the future flood risk in the State of Louisiana through watershed-based solutions. Mr. Bodin is responsible for all aspects of surveying, data collection, and management to successfully complete an interactive, usable, and manageable hydraulic and hydrologic Region 4, which encompasses De Soto, Sabine, Vernon, Rapides, Beauregard, Allen, Jefferson Davis, Calcasieu, and Cameron Parishes in the State of Louisiana. These models will consider the degree to which communities within a watershed are hydraulically and hydrologically connected, and will lead decisions regarding land use, policy, and infrastructure must now be coordinated, made, and implemented at the watershed level if flood risk is to be effectively managed.

Calcasieu Parish Regional (HUC 8) Watershed Modeling and Planning (Calcasieu Parish, LA) Fenstermaker provided surveying services within the project area in support of the modeling efforts for the project. The survey task consisted of the collection of roadside ditch inverts, cross drains, high and low cords on existing bridge decks, along with documentation of the existing conditions of the crossings. Mr. Bodin served as the survey director on this project, overseeing all survey tasks and ensuring all data is collected in conformance with FEMA survey standards.

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:	
RR045 Filmore South Group D Orleans Parish, LA City of New Orleans Department of Public Works 1300 Perdido Street, #6W03 New Orleans, LA 70112 Ang Nguyen (504) 658-8685 Anh.Nguyen@nola.gov	The City of New Orleans Department of Public Works contracted Fenstermaker to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Filmore South neighborhood. Plans and specifications for the site may include the following design features: full roadway pavement sections including sidewalks and curb ramps; roadway pavement base material; subsurface drainage, water, and sanitary sewer installation ; modifications, adjustments, and repair as required; adjustments at driveways, intersection streets, and Project termini as required; green stormwater infrastructure such as permeable surfaces, street trees, detention/retention basins, street basins, and street-side bioswales; bicycle facilities such as bike lanes and shared lanes; and transit facilities such as bus boarding and alighting areas. Installation of ADA ramps will be included. The project includes water main point repairs on various streets within the neighborhood. These repairs include installing a new fire hydrant, valves, and waterlines.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
08/2023 (estimated)	\$13,624,000	\$565,858

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
RR105 Lower Ninth Ward Northeast Group C Orleans Parish, LA City of New Orleans Department of Public Works 1300 Perdido Street, #6W03 New Orleans, LA 70112 Mohanad Abdelfattah (504) 658-8037 mohanad.abdelfattah@nola.gov	Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Lower Ninth Ward neighborhood. Plans and specifications for the site may include the following design features: full roadway pavement sections including sidewalks and curb ramps; roadway pavement base material; subsurface drainage, water, and sanitary sewer installation; modifications, adjustments, and repair as required; adjustments at driveways, intersection streets, and Project termini as required; green stormwater infrastructure such as permeable surfaces, street trees, detention/retention basins, street basins, and street-side bioswales; bicycle facilities such as bike lanes and shared lanes; and transit facilities such as bus boarding and alighting areas. Installation of ADA ramps will be included.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
07/2022 (estimated)	\$14,500,000	\$560,994

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
RR021 City of New Orleans Central City Group A Orleans Parish, LA City of New Orleans Department of Public Works 1300 Perdido Street, #6W03 New Orleans, LA 70112 Ang Nguyen (504) 658-8685 Anh.Nguyen@nola.gov	The City of New Orleans Department of Public Works selected Fenstermaker to provide baseline and topographic survey, roadway design, and construction administration for streets in the Central City neighborhood. The project includes a 10 yr. design to replace the existing sub-surface drainage system and replacement of all sewer structures. Replacement of waterlines is included on several streets and waterline designs provided by the Sewerage & Water Board will be incorporated on others. Fenstermaker has completed the design.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
07/2022 (estimated)	\$10,155,000	\$971,875

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lafayette Consolidated Government (LCG) 2020 Drainage Master Plan — Phase 1: Drainage Maintenance Program Lafayette Parish, Louisiana Jessica Cornay, P.E. Lafayette Consolidated Government 1515 E University Avenue Lafayette, LA 70501 (337) 291-7015	Fenstermaker has had a standing drainage consulting contract with the Lafayette Consolidated Government since 2007, performing services such as FEMA model reviews, grant applications, model updates, post storm event services, and public outreach. As with many South Louisiana Parishes, drainage has been a major priority of the current administration. Fenstermaker was contracted to assist the Parish in developing a Parish-wide Drainage Master Plan. The goals of this plan focused on maintenance activities, as well as drainage project prioritization, and public communications.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$180,000	\$180,000

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Hazard Grant Mitigation Services to the City of Carencro – Drainage Projects</p> <p>City of Carencro, Lafayette Parish, LA PO Drawer 10 210 East St. Peter Street Carencro, LA 70520</p> <p>Don Chauvin, City Manager (337) 896-8481 citymanager@carencro.org</p>	<p>In March 2012, the City of Carencro received a 500-year flood event. Many of the City's wastewater, stormwater, and roadway infrastructure were severely damaged or destroyed. Fenstermaker was hired by the City to survey and map high water marks throughout the City and quantify the amount of inundation and damage to the City's infrastructure. Fenstermaker led a nearly four-year collaboration with FEMA and GOHSEP to identify improvement projects that will repair and protect the City's infrastructure from the 500-year storm event. Fenstermaker secured federal funding from FEMA's Hazard Mitigation Grant Program (HMGP) because of this event. RICHARD ST. DRAINAGE IMPROVEMENTS FEMA No. 0216 - Design of concrete drainage structures and bank reinforcement Project armored an existing channel to mitigate erosion; and ANDRE STREET DRAINAGE IMPROVEMENTS FEMA No. 0089 - Completed design, bid and contract, construction, and inspection of channel improvements and structure replacement. This project included the installation of a conspan structure. A no rise analysis was completed on these improvements.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$1,100,000	\$1,020,000

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Post Road Channel Improvements City of Carencro, Lafayette Parish, LA</p> <p>PO Drawer 10 210 East St. Peter Street Carencro, LA 70520</p> <p>Don Chauvin, City Manager (337) 896-8481 citymanager@carencro.org</p>	<p>A channel next to the Post Road Water Treatment Plant was experiencing erosion issues. There were concerns that the levee along the oxidation pond would breach. To prevent a breach from occurring, the City of Carencro contracted Fenstermaker to design and oversee the construction of channel armoring. The firm's survey team completed a topographic and boundary survey of the channel. Geotechnical engineers performed a slope stability analysis and concluded that continued erosion would likely result in failure. Hydraulic modeling was completed to determine and mitigate the project's impacts. Fenstermaker developed plans and specs that included channel widening and bank protection using articulated block matting. Fenstermaker provided construction management and inspection services. Additionally, Fenstermaker assisted the City with developing the application for and management of the HMGP/GOHSEP grant that funded the project.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
08/2018	\$223,800	\$223,800

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Calcasieu Parish Police Jury Drainage Management Study Calcasieu Parish, LA</p> <p>1015 Pithon Street 4th Floor Lake Charles, LA 70601</p> <p>Allen Wainwright, P.E. (337) 721-3700 awainwright@cppj.net</p>	<p>Calcasieu Parish contracted Fenstermaker to perform a comprehensive study for the improvement of the Parish's drainage system. Fenstermaker first researched and analyzed current proven best management practices (BMP) for drainage management. The research focused on developing communities like Calcasieu Parish and with the goal of preserving watershed resources and drainage system capacity while optimizing operational efficiency of local government entities. Fenstermaker then reviewed and analyzed the Parish's existing ordinances for conformance with BMPs and trends. Gaps between the Parish's current ordinances and design standard and the trending best practices were identified. Fenstermaker analyzed the Parish's rain gauge and flood system and made recommendations for updating and expanding the system. Fenstermaker reviewed and analyzed the Parish's existing computer models and provided recommendations and a schedule for updating the models. The firm also developed a webpage for the Parish that provides real time data to the public and other agencies. Fenstermaker prepared a report that summarized its findings and provided recommendations on future ordinances for the Parish's adoption. Additionally, Fenstermaker worked directly with Parish staff to complete the review of its drainage management policies and attended and presented at public meetings designed to present the proposed recommendations to the public.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
06/2017	\$118,536	\$118,536

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Iberia Parish Government Drainage Maintenance Prioritization and Implementation Iberia Parish, LA</p> <p>Courthouse Building Suite 400 New Iberia, LA 70560</p> <p>Larry Richard, Parish President (337) 365-8246 mlarryrichard@iberiagov.net</p>	<p>Iberia Parish contracted Fenstermaker to evaluate several drainage maintenance alternatives and prioritize them based on hydraulic benefit. This was completed using 2D modeling (Mike Flood) to determine the sensitivity of each alternative based on the recommended maintenance plan by the Parish. The 2D approach was utilized to account for coastal influences such as wind and tide on the alternatives. Fenstermaker completed a more detailed model to determine downstream impacts of maintenance alternatives and fine-tuned the design parameters. In addition, Fenstermaker completed the plans and permitting for the top prioritized alternatives.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
08/2017	\$237,500	\$20,000

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Channel Widening Projects East Baton Rouge Parish, LA</p> <p>City of Baker 3325 Groom Road Baker, LA 70714</p> <p>Rebecca Bond (225) 778-0300 rbond@cityofbakerla.com</p>	<p>Fenstermaker is the prime consultant on three separate projects to deepen and widen the following City of Baker canals: North Canal, Bozeman Creek, and Brushy Bayou. All three canals lack the capacity to handle the volume of water produced during heavy rain events. The City is using HMGP funds to improve flow characteristics and capacity for all three canals. Project tasks include completing a hydrologic and hydraulic study, performing topographic surveys conducting an environmental review, developing a preliminary and final cost estimate, developing preliminary and final designs with detailed plans, providing all Phase 1 deliverables or submissions to FEMA for Phase 2 HMGP approval, and managing the project through construction administration and inspection.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>Bozeman Creek – 06/2022 Brushy Bayou – 08/2022 North Canal – 05/2022</p>	<p>Bozeman Creek – \$224,430 Brushy Bayou – \$220,027 North Canal – \$151,931 Total - \$596,387</p>	<p>Bozeman Creek – \$224,430 Brushy Bayou – \$220,027 North Canal – \$151,931 Total - \$596,387</p>

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Louisiana Avenue Detention Facility Calcasieu Parish, LA</p> <p>Calcasieu Parish Police Jury 1015 Pithon Street 4th Floor Lake Charles, LA 70601</p> <p>Terry Frelot, P.E. (337) 721-3700 tfrelot@cppj.net</p>	<p>Fenstermaker teamed with AECOM to provide design services for Calcasieu Parish to construct a regional detention facility near Louisiana Avenue. Fenstermaker's scope of services included: survey, utility coordination, permits and agency coordination, quantity, and cost estimation, as well as technical and constructability review of the plans design by AECOM. The goals of this project were to provide flood mitigation and relief during design storm events utilizing a detention facility.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<p>06/2023 (estimated)</p>	<p>\$2,500,000</p>	<p>\$134,319</p>

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:	
N/A		

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



C. H. Fenstermaker & Associates, L.L.C. (Fenstermaker) has provided engineering, environmental consulting, and surveying services in south Louisiana for over 72 years, with office locations in New Orleans, Mandeville, Baton Rouge, Lafayette, Lake Charles, Jennings, and Shreveport, Louisiana. Fenstermaker maintains a diverse client base consisting of municipalities, state government, large, medium, and small companies in a variety of industries. Fenstermaker's highly qualified professional staff is supported by a technologically robust management system and continuity of operations, as most senior staff members have been with the firm for decades. Fenstermaker is well equipped to assist Jefferson Parish with the design of drainage projects. Fenstermaker stands behind our qualifications, the capabilities of our personnel, and the integrity of our work. Jefferson Parish will benefit tremendously from a Fenstermaker led project team. Fenstermaker has the personnel depth in technical experience in drainage design that will translate into project success. Fenstermaker's Louisiana heritage, with a nearby offices in New Orleans and Mandeville, will provide the Parish with immediate responses to various project needs and an on-site presence throughout the duration of the project.

(1) Professional training and experience in relation to the type of work required for the routine engineering service

Fenstermaker has extensive experience working with local Parishes, municipalities and Louisiana's Department of Transportation and Development on water resource projects such as roadway drainage design and flood storage design (detention/retention ponds) utilizing various suites of software. The team has completed several FEMA regulatory No Rise studies, Letter of Map Revisions (LOMRs), and worked with FEMA and GOHSEP on Hazard Mitigation Grant Program (HMGP) projects. Fenstermaker's knowledge of the regulatory requirements and engineering standards ensures the best results for our clients.

Fenstermaker currently serves as the City Engineers for various municipalities such as the City of Scott and the City of Carencro. Through work as municipal engineers, Fenstermaker is well versed with localized drainage challenges that parishes and municipalities are faced with daily. Fenstermaker has acted as the planning and review committees for residential and commercial development within the city limits of its municipal clients for over a decade. Through this work, Fenstermaker has reviewed and critiqued hundreds of drainage impact analyses by private developers' engineers for neighborhoods, office parks, strip malls, and commercial retail. This experience has resulted in enormous benefits to municipalities by identifying deficient drainage designs and mitigating countless localized drainage issues beforehand.

Additionally, Fenstermaker has experience not only in drainage design but also in floodplain mapping and hazard mitigation planning. Fenstermaker has met and coordinated with FEMA on floodplain mapping discrepancies and has helped municipalities to develop policies and goals for better floodplain management. We know how to successfully produce and implement an effective drainage design plan. Fenstermaker's team has extensive experience working with local municipalities on water resource projects such as roadway drainage design and flood storage design (detention/retention ponds). Fenstermaker's knowledge of the regulatory requirements and engineering standards ensures the best results for our clients.

Hydrologic and Hydraulic Modeling Experts

Fenstermaker is a recognized leader in hydrologic and hydraulic modeling, understanding drainage and developing prioritization programs to aid municipalities across south Louisiana. Our firm is well equipped to assist the Parish with their drainage projects. Fenstermaker's expertise encompasses stormwater modeling, hydrologic and

hydraulic engineering, and stormwater master planning. Fenstermaker has **24 numerical modelers** who have the routine task of performing both hydrologic and hydraulic numerical modeling using a variety of software including but not limited to the USACE HEC software, EPA's SWMM and WASP software, Bentley Civil Storm, HydroCAD, LADOTD Hydraulics tools (HYDRWIN), ArcGIS, EcoLab, Berkley Madonna, the Danish Hydraulic Institute's software (MIKE 11, MIKE 21, MIKE FLOOD), Deltares, and other privately-owned software (H3D, etc.).

We pride ourselves on being client focused and technology driven with an emphasis on improving current conditions and developing sustainable and resilient long-term solutions. Over the past 20 years, Fenstermaker has been retained by various federal, state, and local agencies and private companies to develop one, two, and three dimensional steady and unsteady numerical hydraulic models. Fenstermaker has been involved in the development of many of the key models that our state uses for decision making purposes; such as the intercompartmental model developed as part of the State's Coastal Master Plan, as well as many of the local HEC-RAS floodplain models certified by FEMA and used by local governments for floodplain management and project analyses.

Stefan Bourgeois, P.E. is a Senior Engineer with over 13 years of professional experience in design, planning, municipal code development and review, construction engineering, and project management. He is the Office Manager for Fenstermaker's New Orleans office. In addition to Mr. Bourgeois' experience in municipal engineering and management, he has been the engineer of record for the design of various project types. He is currently managing three City of New Orleans Department of Public Works street projects: FEMA RR021-Central City Group A, FEMA RR045-Filmore South Group D (FRC), and FEMA RR105-Lower Ninth Ward Group C (FRC).

Leading Fenstermaker's Water Resources Team is **Ms. Jeanne Hornsby, M.S., P.E., CFM.**, who is an Engineering Director at Fenstermaker with 18 years of engineering, project management, and quality control experience. Her expertise has developed through the successful completion of numerous numerical modeling analyses, roadway drainage designs, and stormwater master plans in Louisiana, Texas, and Florida.

Joining the Fenstermaker team is **Terracon Consultants, Inc.**, providing geotechnical engineering and testing. Terracon is a national firm with more than 350 geotechnical engineers. Their New Orleans office, located in Jefferson Parish, will manage projects associated with this contract. They have successfully provided field exploration, laboratory testing, and engineering/project delivery services. They have worked with Fenstermaker on many projects, including US 90 (I-49 S) Design Build, Sasol Heavy Haul Route (LA378 & LA739), Coach Williams Blvd Ext., Ham Reid Rd. Ext., Chemin Metairie Pkwy, 4H Club Rd. Intersection Improvements, multiple overlay projects.

(2) Capacity for timely completion of newly assigned work

Our New Orleans office, with staff from our Mandeville, Baton Rouge and Lafayette offices, is available to complete this project. Fenstermaker will make available any of its qualified and knowledgeable staff to complete the project on time and to Parish requirements. Fenstermaker has a long history of successful project management and understands the importance of timely project completion and cost control on municipal projects. Our project managers and engineers perform quality work in a timely and professional manner.

(3) Location of the Principal business office

Fenstermaker's Principal business office is in Orleans Parish, LA at 1100 Poydras, Suite 1550, New Orleans, LA 70163.

(4) Adversarial legal proceedings between the Parish and the person or firm performing professional services

Fenstermaker has never been engaged in any legal proceedings with Jefferson Parish.

(5) Prior successful completion of projects of the type and nature of routine engineering services as defined, for which firm has provided verifiable reference

As shown in our project examples within this proposal, Fenstermaker has experience on a multitude of public contracts for municipal clients. Our engineers have designed numerous roadway projects for Parish clients and is familiar with the challenges these projects face. Our design engineers are also competent in the standards and guidelines that these projects must follow, including those that must comply with state and federal funding.

The best measure of quality of work performed by Fenstermaker is observed in the number of repeat clients over the past seven decades and the numerous awards that our projects have received. Below is a list of client references and to the right is a sample of the awards that our projects have received:

- **City of New Orleans**
Anh Nguyen, Project Manager, (504) 658-8685,
anh.nguyen@nola.gov
Mohanad Abdelfattah, Project Manager, (504) 658-8037
- **Calcasieu Parish Police Jury**
Allen Wainwright, P.E., (337) 721-3700
- **City of Carencro**
Don Chauvin, City Manager, (337) 896-8481,
citymanager@carencro.org
- **Lafayette Consolidated Government**
Jessica Cornay, P.E., (337) 291-7015
- **Iberia Parish Government**
Larry Richard, (337) 365-8246,
mlarryrichard@iberiagov.net

AWARD WINNING DESIGNS & CONSTRUCTION

Chateau Mirage Channel Realignment & LOMR

2020 ACEC Honor Award

Ile des Cannes Watershed Study and Physical Map Revision

2020 ACEC Grand Award

Andre St. Drainage

2020 ACEC Honor Award

City of Scott Drainage Improvement Plan

2022 ACEC Honor Award



(6) Size of firm

Across our six south Louisiana offices (New Orleans, Mandeville, Lafayette, Baton Rouge, Lake Charles, and Jennings) we currently have 26 licensed Professional Engineers on staff, including two PTOEs, supported by a strong team of 24 licensed Engineering Interns (E.I.), Subject Matter Experts, CADD technicians and Construction Inspectors. Fenstermaker has focused on improving current conditions and developing new infrastructure to provide innovative, long-term solutions for over 35 years.

(7) Past performance by a person for firm on Parish contracts

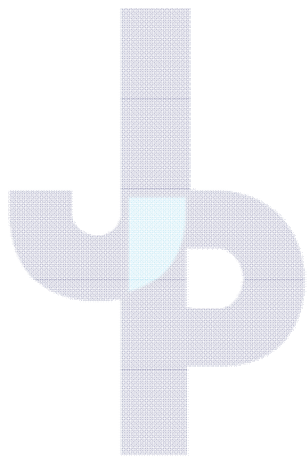
Fenstermaker has over 72 years of experience in South Louisiana and has performed services on projects for local governments for over 35 years, including engineering design, permitting, and agency coordination. We have provided services to the following public sector clients:

- City of New Orleans
- Lafayette Consolidated Government
- Calcasieu Parish Police Jury
- City of Scott
- Iberia Parish Government
- LADOTD

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

Signature: Angelle Guilbeau Print Name: Angelle Guilbeau

Title: Director of Risk Management and Compliance Date: March 25, 2022



Jefferson
Parish
State of Louisiana

Technical Evaluation Committee (TEC) Questionnaire

Instructions

- The Technical Evaluation Committee (TEC) Questionnaire shall be used for professional services related to architecture, engineering, or survey projects.
- **The TEC Questionnaire should be completely filled out. Complete and attach ALL sections. Insert “N/A” or “None” if a section does not apply or if there is no information to provide.**
- Questionnaire must be signed by an authorized representative of the Firm. Failure to sign the questionnaire shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- All subcontractors must be listed in the appropriate section of the Questionnaire. Each subcontractor must provide a complete copy of the TEC Questionnaire, applicable licenses, and any other information required by the advertisement. Failure to provide the subcontractors' complete questionnaire(s), applicable licenses, and any other information required by the advertisement shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

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

B. Firm Name & Address:

Terracon Consultants, Inc.
524 Elmwood Park Blvd., Suite 170
New Orleans, LA 70123

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:

Zack "Lem" Dial, P.E., Principal | Office Manager
Terracon Consultants, Inc.
524 Elmwood Park Blvd., Suite 170
New Orleans, LA 70123
Lem.Dial@terracon.com
504.818.3638

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.

Lizzy Stark, P.E., Professional Engineer, LA No. 44481
Senior Staff Engineer
Terracon Consultants, Inc.
524 Elmwood Park Blvd, Suite 170
New Orleans, Louisiana 70123
P: 504-818-3638
E: lizzy.stark@terracon.com

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

<u>5</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u> </u> Geologists	<u> </u> Structural Engineers
<u> </u> Chemical Engineers	<u>2</u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u> </u> Civil Engineers	<u> </u> Interior Designers	<u>4</u> Project Managers
<u> </u> Construction Inspectors	<u> </u> Landscape Architects	<u> </u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u> </u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>1</u> Engineer Intern	<u>3</u> Environmental Engineers	
<u> </u> Professional Land Surveyors		<u>28</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.

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

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

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

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

28 _____

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:

Lynne Roussel, PE
Principal and Geotechnical Department Manager

Project Assignment:

Principal | Authorized Project Reviewer (APR)/Senior Technical Oversight

Name of Firm with which associated:

Terracon Consultants, Inc.

Years' experience with this Firm:

16.5 years

Education: Degree(s)/Year/Specialization:

Master of Science / 2005 / Geotechnical
Bachelor of Science / 2003 / Civil Engineering

Active registration: Year first registered/discipline:

2009 / Professional Engineer: LA (35152)

Other experience and qualifications relevant to the proposed Project:

Ms. Roussel has experience in a wide variety of field and engineering design projects during her time with Terracon. She has extensive experience with roadway, bridge, drainage and water projects. She has managed drilling operations for the Baton Rouge, Lake Charles, and New Orleans offices for several years and has served as Engineering Supervisor over the laboratory. She has also assisted in the monitoring of pile installation activities, settlement plate installation and monitoring, deep foundation load tests, piezometer installation, and vibrating wire piezometer installation and data recording. Her software experience includes the following software: PCSTABL6, GEOSLOPE, LPILE, DRIVEN, SHAFT, Shoring Suite, WINPAS and Darwin.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title: Lizzy Stark, PE Senior Staff Engineer
Project Assignment: Professional In Charge of the Project/Project Manager
Name of Firm with which associated: Terracon Consultants, Inc.
Years' experience with this Firm: 6
Education: Degree(s)/Year/Specialization: Bachelor of Science / 2015 / Civil and Environmental Engineering
Active registration: Year first registered/discipline: 2020 / Professional Engineer: LA (44481)
Other experience and qualifications relevant to the proposed Project: <p>Ms. Stark is a Senior Staff Engineer in Terracon's New Orleans, Louisiana Office. In this role, she has prepared reports with geotechnical recommendations, assigned laboratory testing, performed engineering calculations, and utilized various design software (APile, gINT, etc.). She also manages geotechnical and materials testing projects and monitors various aspects of construction quality control (QC) and quality assurance (QA). These projects have included retail developments, levee improvements and airport expansions.</p> <p>She has also acquired construction monitoring experience which includes soil testing, pile foundation installation logging, pile foundation load testing, pile integrity testing, foundation excavation inspection, field density testing, concrete testing, pervious pavement infiltration testing, pavement evaluation using PCI/PASER scoring, DCP and SCP testing of subgrade material, and seismic monitoring.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title: Angelica Moran, EI Staff Engineer
Project Assignment: Staff Engineer
Name of Firm with which associated: Terracon Consultants, Inc.
Years' experience with this Firm: 1 year (5 years total)
Education: Degree(s)/Year/Specialization: Bachelor of Science / 2015 / Civil Engineering
Active registration: Year first registered/discipline: 2017 - Engineering Intern - LA (33229)
Other experience and qualifications relevant to the proposed Project: <p>Ms. Moran assists geotechnical engineers with performing subsurface explorations which includes performing in-place density tests, setting up and running static pile load tests, logging piling, and monitoring vibrations. She has worked on various types of geotechnical projects, which have varied from residential to heavy industrial. She has also prepared geotechnical reports containing recommendations for soil bearing capacity, settlement, pile capacities, rigid and flexible pavement design, material requirements, and site preparation.</p> <p>In the laboratory, she also performed aggregate and soil testing such as grain size analysis, soil classification, specific gravity, unconfined compression tests, compaction tests, Atterberg limits, hydrometer analyses, triaxial compression tests, etc. She has planned testing methodology and performed tests to determine engineering criteria to be used in analyses for determining settlement, shallow foundations and deep foundations.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title: Eric B. Bellard Laboratory Supervisor
Project Assignment: Laboratory Supervisor
Name of Firm with which associated: Terracon Consultants, Inc.
Years' experience with this Firm: 11 years
Education: Degree(s)/Year/Specialization: N/A
Active registration: Year first registered/discipline: N/A
Other experience and qualifications relevant to the proposed Project: <p>Eric has over 11 years of experience in the construction materials field as an American Concrete Institute (ACI) certified Construction Materials Technician. In this role, he monitors various aspects of construction quality control (QC) and quality assurance (QA). Projects have included retail developments, hospital and medical office building developments, levee improvements and school additions.</p> <p>The construction monitoring experience Eric has acquired includes earthwork observations, soil moisture content and density testing, driven pile foundation installation logging, auger-cast pile installation monitoring, grout field testing, concrete compressive strength field testing, concrete observations, sample testing and seismic monitoring.</p> <p>Mr. Bellard has over seven years of soil laboratory experience. He currently serves as Lab Supervisor where he performs testing which includes proctors, Atterberg limits, specific gravities, soil and aggregate gradations, organic contents, and moisture contents. He also performs compressive strength testing on all concrete cylinders, grout prisms, and mortar cubes.</p>

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Transcontinental Drainage Improvements Jefferson Parish, LA</p> <p>Rahman & Associates, Inc. 3645 Williams Blvd Ste 208 Kenner, LA 70065-3464</p> <p>Bhatti Rahman rahman@rahmanandassociates.com ph: (504) 469-0022</p>	<p>Terracon provided subsurface exploration and geotechnical engineering services performed for the proposed pavement to be located at Transcontinental Drive in Metairie, Louisiana.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 (A)	N/A	\$10,400

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Craig Avenue Drainage Improvements Metairie, LA</p> <p>Barowka & Bonura Engineers & Consultants 209 Canal Street Metairie, LA 70005</p> <p>Jeff Bonura ph: 5048280030 jbonura@bbecllc.com</p>	<p>Terracon provided geotechnical engineering services. Following the subsurface exploration, Terracon prepared a final report which included geotechnical recommendations concerning earthwork and the design and construction of foundations, floor slabs, and pavements for the proposed project.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 (A)	N/A	\$9,200

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Elmwood Parkway Drainage Improvements Jefferson Parish, LA</p> <p>ARCADIS US 3850 N. Causeway Blvd. Metairie, LA 70002</p> <p>Stephen Cali, PE stephen.cali@arcadis.com ph: (504) 648-3620</p>	<p>Terracon provided field exploration, laboratory testing, and engineering/project delivery services for a drainage project at Elmwood Pkwy and W. Esplanade in Metairie, LA.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
04/2020 (A)	N/A	\$8,600

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Hammond Wastewater Treatment Plant Hammond, LA</p> <p>Spangler Engineering 214 SW Railroad Ave. Hammond, LA 70403</p> <p>Webb Anderson webb@spanglerengineering.com ph: (985) 542-8681</p>	<p>Terracon provided field exploration, laboratory testing, and engineering/project delivery services for a wastewater treatment plant in Hammond, LA.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
05/2019 (A)	N/A	\$6,200

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>W. 11th Ave. Bridge Replacement City of Covington</p> <p>Sub to: T. Baker Smith, LLC 1100 South Acadia Road Thibodaux, LA 70301</p> <p>Paul Olivier Paul.Olivier@tbsmith.com ph (985) 446.7970</p>	<p>Terracon provided field exploration, laboratory testing, and engineering/project delivery services for the bridge replacement project over Mile Branch in Covington, LA.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
12/2018 (A)	N/A	\$7,400

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>YCI Hwy. 3127 and Sidney Road Turnlane Additions St. James, LA</p> <p>WSP USA, Inc. 13530 Dulles Technology Dr. Herndon, VA 20171</p> <p>Christi Fragale christi.fragale@wsp.com</p>	<p>Terracon provided field exploration, laboratory testing, and engineering/project delivery services for the project that consists of the addition of turn lanes along the northbound and southbound lanes of LA-3127 at its intersection with Sidney Road. The turn lanes will be accommodated by widening the existing roadway along the shoulder and green areas. The length of the proposed widening alignment is 1,820 feet.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
01/2018 (A)	N/A	\$7,750

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>JPRD Saints Dr. Girls Complex Metairie, LA</p> <p>Meyer Engineers Ltd. 4937 Hearst St Ste 1B Metairie, LA 70001-1174</p> <p>Terri Dupre tdupre@meyer-e-l.com ph: (504) 885-9892</p>	<p>Terracon provided geotechnical engineering services including subsurface exploration and geotechnical engineering for improvements to two existing softball fields.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	N/A	\$2,500

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bucktown Marina Boardwalk Jefferson Parish, LA</p> <p>Jefferson Parish 834 S. Clearview Parkway Harahan, LA 70121</p> <p>Lauren Avrill LAverill@jeffparish.net (504) 731-4625</p>	<p>Terracon provided geotechnical services for a new 900-foot linear alignment of a pedestrian boardwalk at the Bucktown Marina. The boardwalk is located at the edge of the marina over open water. Terracon performed geotechnical soil borings utilizing a marsh-buggy mounted drill rig. We also performed laboratory testing and provided geotechnical recommendations for driven timber piles including uplift and lateral capacity. Terracon also provided deep foundation installation observation services during construction.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	N/A	\$20,000

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Bucktown Outdoor Classroom Bucktown Marina Jefferson Parish, LA Jefferson Parish 1221 Elmwood Park Blvd., Suite 310 Jefferson, LA 70123 Michelle Gonzales mgonzales@jeffparish.net (504) 736-6653	Terracon conducted field exploration, laboratory testing and provided engineering/project delivery for the proposed outdoor classroom with a footprint of about 28,000 square feet. The classroom included elevated platforms, access ramps, and embankment located at an undeveloped recreational area at a man-made marina.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	N/A	\$9,950

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Vineyard Road Bridge Spangler Engineering 214 SW Railroad Ave. Hammond, LA 70403 Webb Anderson webb@spanglerengineering.com ph: (985) 542-8681	Terracon conducted field exploration, laboratory testing and provided engineering/project delivery for the replacement of an existing timber bridge with a three (3) span, precast concrete bridge supported on precast prestressed concrete (PPC) piles at Vineyard Road Bridge over Skulls Creek in Hammond, LA.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
10/2017	N/A	\$9,000

TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. 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.

See attached.

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

Signature: Zack A. Dial Print Name: Zack "Lem" Dial, P.E.

Title: Principal | Office Manager Date: 3/11/2022

7. Brief Resume of Key Persons, Specialist, and Individual Consultants anticipated for this project.

a. Name and Title

Lynne Roussel, PE
Principal and Geotechnical Department Manager

b. Project Assignment:

Principal In Charge | Senior Technical Oversight

c. Name of Firm with which associated

Terracon Consultants, Inc.

d. Years experience:

With This Firm	16.5	With Other Firms	0.0
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e. Education: Degree(s)/Year/ Specialization

Master of Science / 2005 / Geotechnical
Bachelor of Science / 2003 / Civil Engineering

f. Active Registration: Year First Registered/Discipline

Year First Registered:	2009
Branch:	Professional Engineer, Civil - LA (35152)

g. Other Experience and Qualifications relevant to the proposed project:

Bucktown Outdoor Classroom, Jefferson Parish, LA Ms. Roussel served as senior technical reviewer for the geotechnical project that included field exploration, laboratory testing and engineering.

I-10 to LA-1 Connector 30% Design, Port Allen, LA Ms. Roussel served as the Project Manager for 30% design plans for a proposed new connector between I-10 and LA-1 in West Baton Rouge Parish. The extension included two bridges and two miles of new roadway. Bridges over an existing railroad and the Intracoastal Canal were included. An evaluation of a possible retained earth embankment was included.

LA Department of Transportation Geotechnical Retainer Contract, LA Ms. Roussel serves as the contract manager and Project Reviewer for the retainer contract for services. The contract value is \$4 Million.

Interstate 12 Widening, East Baton Rouge and Livingston Parishes, LA Ms. Roussel provided engineering services for this major Interstate highway improvement. The project consists of the widening of Interstate 12 to six lanes from O'Neal Lane eastward in both East Baton Rouge and Livingston Parishes. DOTD.

Cyprien Pump Station - Raceland, LA

Ms. Roussel served as project manager for this project. Terracon was retained to conduct a geotechnical investigation for a new pump station in the city of Raceland. Terracon developed nominal capacity and established resistance factors for foundations for the design and construction of the structures.

LA DOTD Off-System Bridge Program, Throughout Louisiana Ms. Roussel served as the project manager for these projects. Terracon has enjoyed the opportunity to provide geotechnical drilling, laboratory testing, and engineering support for several bridges designated for replacement under the Louisiana Department of Transportation and Development Off-System Bridge Program. For each bridge, Terracon has served as a sub-consultant for a civil engineering firm selected by Louisiana DOTD to design the new bridge. In each case, the project civil engineer has provided all additional engineering and land surveying required to perform topographic surveys and hydraulic studies and prepared the preliminary and final roadway and bridge plans. Terracon has completed geotechnical investigations for bridges throughout Louisiana and in a variety of geologic settings. For each project, Terracon developed a scope of work according to the Louisiana DOTD Bridge Manual. In most cases, the scope of work included two soil borings to 100 feet per bridge, with one boring being completed at each end of the existing bridge. For longer bridges, additional borings were added at proposed abutment locations. Following DOTD specifications, continuous samples were collected in the upper 10', and on maximum 5' intervals thereafter, unless a potential non-cohesive bearing stratum was identified at depth, in which case the sequence was reduced to maximum 3' intervals. For each project, Terracon developed pile capacity charts from the data using the FHWA Driven™ computer routine. These projects serve as evidence of Terracon's experience with implementing projects using DOTD protocols and continued excellence on transportation projects for a variety of clients and in a variety of regions.

Pump Station 42 Force Main - Baton Rouge, LA

Ms. Roussel served as project manager for this project. Terracon was retained to conduct a geotechnical investigation for a new force main to be constructed in East Baton Rouge Parish, Louisiana. The project included the design of a new force main route from Pump Station 42 near the Central Wastewater Treatment Plant to the South Wastewater Treatment Plant.

South Vacherie Wetlands Assimilation Project - Vacherie, LA

Ms. Roussel served as Project Manager for St. James Parish's proposed project to install an oxidation pond South of LA 20 near Bayou Cheuvril Road in Vacherie, Louisiana. The project included four aeration and equalization basins along with associated equipment pads. The basins will be lined with an HDPE liner system.

Colyell Creek Drainage Improvements - Livingston Parish, LA - Ms. Roussel served as the project manager on this project. Terracon was retained to provide recommendations for site preparation and slope stability analysis for widening and realignment of approximately 2.2 miles of Colyell Creek from Florida Boulevard to Buddy Ellis Road. The scope included several borings along the alignment and preparation of slope stability models to validate the planned new creek bank geometry.

Maringouin Outfall Drainage Improvements - Grosse Tete, La Ms. Roussel served as project manager on this project. Terracon was retained to provide recommendations for installation of a 72-inch culvert and catch basins within an existing open channel along Winstock lane in Bayou Grosse Tete. Project included recommendations for installation of a flexible concrete revetment system along portions of the channel.

7. Brief Resume of Key Persons, Specialist, and Individual Consultants anticipated for this project.

a. Name and Title

Lizzy Stark, PE
Senior Staff Engineer

b. Project Assignment:

Project Manager | Professional in Charge of Project

c. Name of Firm with which associated

Terracon Consultants, Inc.

d. Years experience:

With This Firm 6 With Other Firms 0.0

e. Education: Degree(s)/Year/ Specialization

Bachelor of Science / 2015 / Civil and Environmental Engineering

f. Active Registration: Year First Registered/Discipline

Year First Registered: 2020

Branch: Professional Engineer, Civil – LA (44481)

g. Other Experience and Qualifications relevant to the proposed project:

Ms. Stark is a Senior Staff Engineer in Terracon's New Orleans, Louisiana Office. In this role, she has prepared reports with geotechnical recommendations, assigned laboratory testing, performed engineering calculations, and utilized various design software (APile, gINT, etc.). She also manages geotechnical, and materials testing projects and monitors various aspects of construction quality control (QC) and quality assurance (QA). These projects have included retail developments, levee improvements and airport expansions.

She has also acquired construction monitoring experience which includes soil testing, pile foundation installation logging, pile foundation load testing, pile integrity testing, foundation excavation inspection, field density testing, concrete testing, pervious pavement infiltration testing, pavement evaluation using PCI/PASER scoring, DCP and SCP testing of subgrade material, and seismic monitoring.

JPRD Saints Dr. Girls Complex, Jefferson Parish, LA (2021) Ms. Stark served as senior staff engineer for the subsurface exploration and geotechnical engineering for improvements to two existing softball fields.

Jefferson Parish - Various Locations | Jefferson Parish, Louisiana (2019-current) For Jefferson Parish, Terracon provides construction materials observation and testing services of various roadway and public infrastructure projects. Ms. Stark is the Project Manager for these projects which include laboratory testing of pavement subbase and base course materials, compaction testing of pavement subbase and base courses at the site, concrete testing, and sampling during placement of pavement, curbs and sidewalks, laboratory testing of concrete test cylinders for compressive strength, and testing and pile logging during installation of deep foundations.

Bucktown Outdoor Classroom, Jefferson Parish, LA (2021)

Ms. Stark served as project manager for the geotechnical project that included field exploration, laboratory testing and engineering. She provided project management/supervision and attended client meetings.

Black River Drive Bridge, Madisonville, LA (2021)

Ms. Stark served as the project manager for this bridge replacement project which involved installation of PCC piles. Terracon provided consulting and construction monitoring for this project, including Pile Dynamic Analysis (PDA). The services provided included WEAP analysis, initial and restrike PDA during driving of monitor piles, and observation of pile installation.

Canal Street Development, New Orleans, LA (2021)

This project consisted of the proposed construction of a new 12-story building. Ms. Stark developed a subsurface profile and provided recommendations for deep foundation options including pile settlement, drag load, downdrag and group effect considerations. She also developed site preparation, excavation, and fill material recommendations.

City of New Orleans - Various Locations, New Orleans, LA (2017-current) For the City of New Orleans' Department of Public Works, Terracon provides construction materials observation and testing services of various roadway rehabilitation projects. Ms. Stark is the Project Manager for these projects which include laboratory testing of trench backfill and pavement subbase and base course materials, compaction testing of trench backfill and pavement subbase and base courses at the site, observation of subgrade soils during proof rolling operations, concrete testing and sampling during placement of pavement, curbs and sidewalks, laboratory testing of concrete test cylinders for compressive strength, and testing and observation of asphalt material properties on site and at the batch plant.

Montz Area Pump Stations – Montz, LA, 2021-2022

This project consisted of construction of two new pump stations including excavation of detention basins, pile-supported structural slab sumps with cast in place walls and equipment structures, and discharge pipes crossing under the state highway and then over the USACE's Bonnet Carre' Spillway (BCS) Upper Guide Levee and finally onto a concrete discharge apron. Terracon's scope of work included deep foundation recommendations (including pile capacity curves and PY, TZ and QZ curves) pipe support foundation bearing capacities, slope stability analysis of sides of proposed embankments and excavations, global stability analysis of proposed retaining walls and excavations utilizing slope and method of planes, and seepage analysis. Ms. Stark served as project manager for these services and provided analysis and recommendations.

7. Brief Resume of Key Persons, Specialist, and Individual Consultants anticipated for this project.

a. Name and Title		PROJECT EXPERIENCE Woodmere Playground Expansion (Phase 1), Harvey, LA (01/21 – 03/21) Geotechnical Engineer. The project will consist of the expansion of the existing Woodmere Playground to include a (2) two-story Concession Stand and Press Box, two (2) Picnic Pavilions, and an Airnasium. A new Parking Lot will be constructed to have 58 parking spaces. The Parking Lot will be constructed with flexible (asphalt) pavement. The geotechnical investigation consisted of seven (7) undisturbed soil test borings. Three (3) undisturbed soil test borings were preformed to the 75 ft depth below the existing ground surface in the general area of the proposed Expansion. Four (4) undisturbed soil boring were performed to the 6 ft depth below the existing ground surface in the area of the proposed Parking Lot. Gloria Dr. Pump Station, Generator Facility and Bulkhead, Lafitte, LA (02/21 – 06/21) Geotechnical Engineer. The project will consist of constructing a new Pump Station and elevated Generator Facility located between the east end of Gloria Dr. and Treasure St., in Lafitte, LA. The project will also consist of repairing or replacing the existing timber Bulkhead. The geotechnical investigation consisted of one (1) undisturbed soil boring performed to the 100 ft depth below the existing ground surface in the general area of the proposed Gloria Drive Pump Station, Generator Facility and Bulkhead. Relevant Soils Laboratory Testing included: Atterberg Limits, Unconfined Compression Tests, Unit Weight Determination and Natural Moisture Content. Geotechnical Engineering Analysis included: Deep Foundation Analysis, Allowable Pile Load Capacities, Estimates of Settlement, Flexible Pavement Recommendations and General Construction Procedures and Recommendations. Lower Harvey Canal Crossing - Harvey, LA (03/19 – 07/20) Geotechnical Engineer. The project will consist of constructing dual bridge structures that will include three (3) lanes of traffic in each direction. The project will have design elements to include a fixed bridge, a bascule bridge, a roadway, various canal crossings and bridge lighting. The geotechnical investigation included forty-seven (47) undisturbed soil test borings. Four (4) undisturbed soil borings were drilled to the 165 ft. depth, twenty-four (24) undisturbed soil borings were drilled to the 150 ft. depth, two (2) undisturbed soil borings were drilled to the 120 ft. depth, two (2) undisturbed soil borings were drilled to the 100 ft. depth, one (1) undisturbed soil boring was drilled to the 70 ft. depth, and fifteen (15) undisturbed soil borings were drilled to the 6 ft. depth. All soil borings were drilled below the existing ground surface in the general area of the proposed alignment of the Lower Harvey Canal Crossing. Relevant Soils Laboratory Testing included: Atterberg Limits, Unconfined Compression Tests, Natural Moisture Content, Unit Weights. Geotechnical Engineering Analysis included: Characterize Subsurface Conditions, Highlight Constructability Issues, Pavement Recommendations, Pavement Thickness, Slope Stability Analysis, Fill Construction Near Bridge Approaches, Recommendation for Embankment Construction and General Construction Procedures and Recommendations.		
Anjelica Moran, EI Staff Engineer				
b. Project Assignment:				
Staff Engineer				
c. Name of Firm with which associated				
Terracon Consultants, Inc.				
d. Years experience:				
With This Firm	<1		With Other Firms	5
e. Education: Degree(s)/Year/ Specialization				
Bachelor of Science / 2015 / Civil Engineering				
f. Active Registration: Year First Registered/Discipline				
Year First Registered:	2017			
Branch:	Engineering Intern - LA (33229)			
g. Other Experience and Qualifications relevant to the proposed project:				
Bucktown Outdoor Classroom, Jefferson Parish, LA (2021) Ms. Moran served as staff engineer for the geotechnical project that included field exploration, laboratory testing and engineering. She reviewed logs, samples and data and assisted with analysis and design. <i>***All projects below were performed with a previous employer***</i> Carmelite Pump Station & Drainage Improvements, Jones Point, LA (03/21 – 06/21) Geotechnical Engineer. The project will consist of constructing a new Carmelite Pump Station at the west end of Carmelite St., in Jones Point, LA. This project will also include the installation of new subsurface drainage and will extend approximately 2,000 linear feet. Relevant Soils Laboratory Testing included: Atterberg Limits, Unconfined Compression Tests, Unit Weight Determination, Natural Moisture Content, Percent Passing the No. 200 Sieve. Geotechnical Engineering Analysis included: Estimates of Settlement, Sheet Pile Wall Analysis, Bedding and Backfill Recommendations and General Construction Procedures and Recommendations.				

7. Brief Resume of Key Persons, Specialist, and Individual Consultants anticipated for this project.

a. Name and Title

Eric B. Bellard
Laboratory Supervisor | Construction Materials Technician

b. Project Assignment:

Laboratory Supervisor | Construction Materials Technician

c. Name of Firm with which associated

Terracon Consultants, Inc.

d. Years experience:

With This Firm 11 With Other Firms 0

e. Education: Degree(s)/Year/ Specialization

N/A

f. Active Registration: Year First Registered/Discipline

Year First Registered: N/A

Branch: N/A

g. Other Experience and Qualifications relevant to the proposed project:

Mr. Bellard is a Construction Materials Technician in Terracon's New Orleans, Louisiana Office. He has over 11 years of experience in the construction materials field as an American Concrete Institute (ACI) certified Construction Materials Technician. In this role, he monitored various aspects of construction quality control (QC) and quality assurance (QA). These projects have included retail developments, hospital and medical office building developments, levee improvements and school additions.

Mr. Bellard has over 8 years of soil laboratory experience. He currently serves as Lab Supervisor where he performs testing which includes proctors, Atterberg limits, specific gravities, soil and aggregate gradations, organic contents, and moisture contents. He also performs compressive strength testing on all concrete cylinders, grout prisms, and mortar cubes.

Bucktown Outdoor Classroom, Jefferson Parish, LA (2021)

Mr. Bellard served as laboratory supervisor/technician for the laboratory testing. He performed laboratory soil tests.

Bucktown Marina Boardwalk, Jefferson Parish, LA (2018)

Mr. Bellard served as laboratory supervisor/technician for the laboratory testing and provided geotechnical recommendations for driven timber piles for the proposed new 900-foot pedestrian boardwalk.

JPRD Saints Dr. Girls Complex, Jefferson Parish, LA (2021)

Mr. Bellard served as laboratory supervisor for the subsurface exploration and geotechnical engineering for improvements to two existing softball fields.

City of New Orleans Gravier Street Project, New Orleans, LA For the City of New Orleans' Department of Public Works, Terracon provided construction materials observation and testing services of Gravier Street from S. Galvez to S. Broad Street. This project includes laboratory testing of trench backfill and pavement base course materials, compaction testing of trench backfill and pavement base course at the site, observation of subgrade soils during proof rolling operations, concrete testing and sampling during placement of curbs and sidewalks, laboratory testing of concrete test cylinders for compressive strength, and testing of asphalt material properties at the batch plant.

Lakefront Airport T-Walls, New Orleans, LA: For the \$12.5MM LPV 105.01 Lakefront Airport T-Walls contract, Terracon provided vibration monitoring, soil density testing, and concrete testing. The project was designed to upgrade hurricane protection and storm proofing for the Lakefront Airport. Approximately 1,900 feet of T-wall, plus a vehicle gate at Downman Road was included. While the technical aspects of the Lakefront project were considered routine for our experienced staff and USACE-Certified laboratory operation, the project did present certain logistical challenges. Mr. Bellard performed concrete observation and testing, earthwork observations, soil density and moisture content testing. Also performed laboratory testing including Atterbergs, organic contents, proctors, and gradations. Four technicians were performing vibration monitoring as four cranes and pile driving rigs were operating at the same time. Another technician was required for monitoring soil compaction and concrete placement.

SELA 10 Maronne Canal Improvements, Destrehan, LA: Mr. Bellard performed concrete observation and testing, earthwork observations, soil density and moisture content testing on this USACE project. He also provided laboratory testing which included Atterbergs, organic contents, proctors, and gradations. Terracon worked for the contractor, Fleming Construction, performing QC duties.

Sewerage & Water Board of New Orleans, Contract 3695, New Orleans, LA: This project consisted of the re-construction of city streets for the city of New Orleans. Mr. Bellard Performed on-going earthwork observations, soil density and moisture content testing.

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

1. Professional training and experience in relation to the type of work required for soils investigation services

Geotechnical Engineering Overview



Design and construction of functional, cost-effective structures require a thorough understanding of local soil, rock, and groundwater conditions. Terracon provides a wide range of services to support all phases of a project, from preliminary design through completion of the building process.

Each local Terracon office, with access to the extensive geotechnical experience and expertise of engineers, geologists, and soils technicians throughout our company, can help to assess the risks associated with subsurface conditions. We participate as a vital member of the project team, focusing on project objectives and using innovative technologies to provide practical design recommendations. Our culture, systems, and structure enable us to excel at both small and large projects.

Our geotechnical projects have included:

- Subsurface drilling and testing
- Foundation analysis and design
- In-situ testing and performance monitoring
- Earth structures, slopes, and retention systems
- Dynamic analysis and evaluation
- Soil stabilization and ground improvement
- Groundwater control
- Pavement design and subgrade evaluation

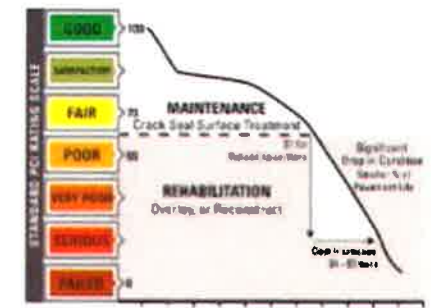
With more than 350 geotechnical engineers and one of the largest drilling fleets in the country, Terracon is well positioned to deliver quality, responsive, and cost-effective geotechnical engineering services, regardless of project size.

Key Project Staff

With more than 350 geotechnical engineers and one of the largest drilling fleets in the country, Terracon is well positioned to deliver quality, responsive, and cost-effective geotechnical engineering services, regardless of project size. We have assembled a local team that understands how to be responsive, reliable, and resourceful, while effectively meeting the demands of the project scope and work schedule. Our Team offers sound technical skills, a significant amount of project experience, and in addition, has successfully provided these services on similar projects with aggressive and demanding schedules. Detailed resumes for all Terracon personnel are provided in Section K of the TEC Form. Our key personnel on this proposal are listed below.



Lynne Roussel, PE will serve as the **Principal-In-Charge** and provide **Technical Oversight** for this contract. Lynne is an experienced geotechnical engineer with 16.5 years of experience in all aspects of geotechnical projects including field investigations, managing drilling operations, and serving as engineering supervisor over the geotechnical laboratory. Lynne is the Geotechnical Department Manager.



Pavement costs represent a significant portion of the total construction and maintenance budget for many public and private projects. If delayed, relatively low-cost maintenance efforts will result in more expensive future rehabilitation.

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:



Lizzy Stark, PE will serve as the **Project Manager and Professional In Charge** for work done on this contract. With over six years of soil investigative services and geotechnical experience, Lizzy has managed various roadway and public infrastructure projects for Jefferson Parish. She has also managed other bridge and roadway projects for the City of New Orleans. She is familiar with local soils and experienced with developing subsurface profiles and providing recommendations for deep foundation options including pile settlement, drag load, downdrag and group effect considerations if the project requires it. She has also developed site preparation, excavation, and fill material recommendations. She will represent Terracon at progress meetings, oversee the coordinate drilling activities, assign laboratory testing, review and approve field reports, and coordinate field personnel for this project. She is a highly dedicated Project Manager and will ensure that Terracon exceeds the expectations of Jefferson Parish.



Eric Bellard is **Laboratory Supervisor** and engineering technician with more than 11 years of experience in materials testing and Special Inspections. He currently serves as Lab Supervisor where he performs testing which includes proctors, Atterberg limits, specific gravities, soil and aggregate gradations, organic contents, and moisture contents. He also performs compressive strength testing on all concrete cylinders, grout prisms, and mortar cubes. He will oversee all laboratory testing under this contract.

Pavement Engineering

Terracon's pavement evaluation, design, preservation management, and construction management experience provides needed expertise to meet pavement lifespan challenges. From site selection, through environmental challenges, site design, and construction phases, Terracon is here to guide you each step of the way. Pavement projects typically include the following tasks:

Evaluation

Terracon uses technologies in field drilling and evaluation, laboratory testing, and both visual and geophysical surface condition assessments to provide accurate results. We can provide the most cost-effective recommendations intended to support decision making during the design process and long-term planning for many types of pavement projects.

- **Subsurface Soil Evaluation:** Soil properties are fundamental to pavement, foundation, and drainage design. Terracon offers a full range of drilling, sampling, and coring equipment.
- **Material Evaluation:** Dynamic Cone Penetration testing for subgrade support characterization and a suite of laboratory tests for determining material properties.
- **Existing Surface Evaluation:** Paving surfaces may consist of concrete, asphalt, or both. Evaluation of the existing pavement and distresses are performed using ASTM methods.

Design

Geotechnical design requires knowledge of the soil conditions and how they vary across the project site. We do not drill soil borings to evaluate the soil properties, but rather to assess their impact on the design of the overall project. We make the Owner, designer, and Contractor aware of the risks associated with the subsurface conditions and recommend cost efficient designs to manage those risks.

Preservation Management

Performing pavement condition surveys to forecast future pavement condition and lifespan are critical to reducing the impact on future budgets and reducing the need to perform disruptive re-construction. We prepare work plans to extend pavement life, optimize pavement expenditures, and manage pavement maintenance programs. The client can then make informed decisions and remove the guessing game associated with short- and long-term pavement management.

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

Construction Management

Once the path forward has been determined, proper pavement management plan execution is paramount. Terracon provides the owner the peace of mind the construction/maintenance of their pavement investments will be done correctly and efficiently. From construction administration to materials testing, Terracon provides construction management services from project start to finish.

Drilling Operations

Terracon maintains a fleet of approximately 120 drill rigs that can be mobilized from many locations throughout the United States. All drilling supervisors and drill crew members are trained in drill rig operation, safe operating procedures, and basic first aid. Drill crew members who participate in hazardous waste site operations projects are also trained in accordance with the OSHA Hazardous Waste Site Operations and Emergency Response standard (OSHA 29 CFR 1910.120) which requires an initial 40-hour safety training course and annual safety refresher training. Baseline and annual medical surveillance examinations are also required for such personnel.

Drill rigs mounted on trucks and all-terrain vehicles are available to perform subsurface exploration borings and sampling. Terracon offers many methods of subsurface sampling and data acquisition to meet client needs. Our engineers and field crews have experience with many types of specialized field testing, including pressure meter, borehole shear, and packer testing.

In-situ Testing

The geotechnical properties of soil and rock have conventionally been determined by drilling, sampling, and performing laboratory testing on the samples retrieved. However, advanced "in-situ" testing methods are now available. These measure various properties of subsurface materials directly in their natural "undisturbed" environment, avoiding the effects of sample disturbance, therefore providing more reliable and significantly improved soil design parameters. The test methods are also cost-effective and provide a faster, more detailed subsurface characterization than can be achieved with conventional drilling and sampling alone.

Cone Penetration Test (CPT)

The cone penetration test device consists of a cylindrical, high-strength steel probe with a conical tip. The probe also has a porous filter and an isolated sleeve section immediately above the tip. Electronic sensors measure tip resistance, pore water pressure, and sleeve friction as the probe is pushed into the ground at a steady rate of about an inch per second. A computerized system tracks penetration rate and depth, automatically recording sensor data at set intervals usually every 1 to 2 centimeters. The measured CPT data can be used to evaluate soil types, detailed stratigraphy, ultimate and residual shear strength, friction angle, relative density, and permeability. The digital data can be readily analyzed to predict footing and pile capacities, settlement, and slope stability. The probe can also be equipped with geophones to periodically measure down-hole arrival time of seismic shear-waves induced at the ground surface. This produces a subsurface profile of soil shear-wave velocity useful for seismic analyses.

Menard Pressuremeter (PMT)

The Menard pressuremeter is a cylindrical down-hole hydraulic probe that measures volumetric radial expansion versus increasing outward lateral pressure. The instrument is used for determining in-place soil and rock characteristics, directly relating strength and compressibility to foundation bearing capacity and settlement. The pressuremeter can also be used to supplement conventional testing and sampling. It is particularly beneficial in testing soil and rock formations in which standard sampling and testing procedures have been marginally effective. Testing with the pressuremeter has commonly permitted the use of higher design bearing pressures than could have been considered by analysis of data obtained from conventional testing and sampling methods. Also, more realistic settlement predictions can be provided.

Applications in which pressuremeter testing can be used include:

- Foundation bearing capacity and settlement * Quality control tests

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

- Pile friction * Evaluation of soil and/or rock beneath existing foundations
- Lateral resistance of foundations * Testing in interbedded sand, silt, and clay soils
- Lateral earth pressure coefficient determinations * Testing in soft rock and residual soils
- Uncontrolled fill evaluation * Testing of waste as a bearing material

In-Situ Vane Shear Test (VST)

The vane shear test is performed by pushing a 4-bladed vane into the soil and applying torque until the soil shears cylindrically around the vane. The torque is increased at a controlled rate until the soil shears. The vane is then rotated ten times and the "re-molded" shear strength is also measured. This is one of the more representative and reliable means of evaluating the Undrained Shear Strength, S_u , of cohesive soils. The VST often shows that the true strength of the most sensitive soils is significantly higher than can be determined in the laboratory by even the best sampling methods possible. By performing the VST in combination with Cone Penetration Tests, reliable factors can determine the correlation of the continuous CPT data to shear strength.

Laboratory Services

Terracon owns, operates, and maintains more than 130 construction materials and geotechnical laboratories across the U.S. Our laboratories are equipped to perform a wide variety of tests while following strict internal guidelines to deliver the most thorough and reliable data possible. In addition to routine material property testing, we also provide advanced shear strength, swell/consolidation, petrographic, steel, wood, geosynthetics, and rock mechanics test data to meet testing needs for even the most complex structures. We continually apply new technologies to improve and expedite our services to solve your project challenges in a timely, reliable, and cost-effective manner. Our trained and certified staff of testing personnel are supported by fully supplied, technologically advanced laboratories that have been accredited and validated by third party agencies to include AASHTO, AMRL, CCRL, USACE, A2LA, CMEC & NVLAP. Each of our laboratories have implemented and operate under the strict guidelines set by Terracon's Quality Management System.

- **Soils:** Laboratory tests are performed to define soil properties and identify those soils that do not conform to project specifications. For moisture content, strength, and stability, the early identification of issues helps avoid future problems and allows for the correction of problems during construction. Tests include laboratory compaction characteristics of soil, plasticity index, gradation, organic content, classification, swell pressure unconfined compressive strength, and corrosion index testing.
- **Concrete and Masonry:** New criteria for concrete and masonry construction are evolving on a continual basis. Terracon routinely performs design mixes for concrete, mortar, and grout to satisfy the project specifications. Compression and flexural tests are typically performed on hardened concrete cylinders and beams, mortar and grout cubes, and masonry units. Petrographic analysis, drying shrinkage of Portland cement concrete mixes, chloride ion content, rapid chloride ion permeability, freeze-thaw durability, and efflorescence tests can also be performed.
- **Asphalt:** Modern construction practices involving asphalt require consideration of such factors as durability, adaptability to fast-track construction, and proper performance under specialized applications. Asphalt concrete mixes can be designed using local materials that best fit roadway and airport needs. The optimum mix design is determined through Superpave, Marshall, or Hveem test methods, as well as laboratory testing of aggregate properties, extraction, and gradation.
- **Aggregates:** Aggregate quality is established and monitored by performing such laboratory tests as gradation analysis, specific gravity, absorption, soundness, freeze-thaw, abrasion, deleterious substances, and acid solubility.

2. Capacity for timely completion of newly assigned work, considering the factors of current unfinished workload, and person or firm's available professional and support personnel

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

Currently, Terracon is operating at a capacity represented by approximately 60 percent chargeability on a company-wide basis. With our structure and company philosophy of sharing available resources, we can increase our capacity to approximately 80 percent chargeability. Terracon's ability to quickly expand our capacity relies on two practices that provide significant competitive advantages for the company.

- First, we have built-in systems to share work between all our offices. This is accomplished by rewarding both the office supporting projects and the office requesting help, creating a culture that supports a seamless sharing of employees. The team has enough professional resources to accomplish the work in the required time, including the ability to complete more than one delivery order at a time, and to react quickly and efficiently when working within an accelerated schedule. No individual office within Terracon receives a P&L statement, thus increasing the likelihood and willingness of offices to cooperate and share resources.
- Second, in short-term periods of heavy workload, our employees are willing to work overtime hours. Terracon pays our professional employees overtime based upon exceeding certain chargeable hours, making it possible to expand our capacity without the need to hire for short term increases in workload. While Terracon has a strong philosophy of providing a consistent team of professionals to ensure consistency and familiarity with the client and their projects in a geographic area, both systems allow us to provide experienced Terracon employees to the project manager on short notice to achieve the consistent quality deliverables in a timely manner when workloads and schedules require additional support
- Terracon has up to three drilling rigs available in the local region with the ability to access up to five drilling rigs within the Gulf Coast Region. This allows complete large soil investigative projects in a fast and efficient manner.

3. Location of the principal office where work will be performed

The local office of Terracon, which is in Jefferson Parish, will serve as the lead office for this contract, with additional offices available to provide support as necessary.

Terracon – New Orleans Office
524 Elmwood Park Boulevard, Suite 170, New Orleans, LA 70123 (Jefferson Parish)

4. Adversarial Legal Proceedings with the Parish

None

5. Prior successful completion of projects requiring soils investigation services for which firm has provided verifiable references

Terracon has performed soils investigation services on thousands of challenging sites throughout the United States. Local, federal, and state clients depend on Terracon to help them provide a better living and working environment for their local citizens. Terracon has provided soils investigation services for not only Jefferson Parish, but many parishes and cities throughout Louisiana including the parishes surrounding Jefferson. On all projects, we strive to live up to the mantra "We go where the client wants, when the client wants, and we don't go home until we're finished."

Past projects with available references can be viewed in Section L of the TEC Questionnaire.

6. Size of firm, considering the number of professional and support personnel required to perform soils investigation tasks, including drafting of reports, plans, and specifications

Terracon is a 100 percent employee-owned consulting engineering firm providing quality services to clients. Since 1965, Terracon has evolved into a successful multi-discipline firm specializing in:

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

- Facilities
- Environmental
- Soil Investigative Drilling/Geotechnical Engineering
- Materials

Over its history, Terracon has achieved significant expansion through both internal growth and acquisitions. **Terracon currently has more than 5,000 employees across more than 175 offices coast to coast.** Additionally, we partner with our U.S. clients to serve their international needs.

The firm's success is further evidenced by a current ranking of 24 in *Engineering News-Record's* 2021 listing of the Top 500 Design Firms, as compared to a ranking of 38 a decade ago. Terracon's growth is due to dedicated employees who are responsive to clients, provide quality services, and take advantage of opportunities in the marketplace.

Terracon has worked on geotechnical projects throughout Louisiana. Many of these have been completed under retainer contracts or on-call contracts. We have completed drilling and laboratory work for municipalities for projects including roadways, drainage, sewer/wastewater facilities, and various types of buildings. Terracon has been hired by the City of New Orleans and Jefferson parish Department of Public Works for multiple geotechnical and/or construction materials testing projects.

Terracon is prepared to provide soil investigative services, geotechnical engineering, inspection, and materials testing services necessary for the design, construction, rehabilitation and repair of streets, drainage, and utility improvement projects in Jefferson Parish.

We serve a diverse portfolio of private and public clients. By being responsive, resourceful, and reliable, we strive to exceed our clients' expectations for service, solutions, quality, and speed of delivery. Based on a deep understanding of our clients' needs, Terracon's commitment is centered around these key objectives.

Our Safety Culture

Terracon believes safety is one of the most critical aspects of a successful project. No project is worth impacting the life of any employee and their family through loss of life, limb, or livelihood. Therefore, we do not focus on safety as something separate from other critical aspects of the project: quality, schedule, and budget. Instead, we focus on weaving safety into all aspects of the project. Focusing on making sure employees go home safely every day to their family improves quality, helps the schedule, and ultimately saves costs by averting accidents, injuries and tragedies through proper planning, training, and execution of safety.

However, safety is not just about what we do with our safety program. It is about how we work with our clients and their Project Team when we become part of the project.



Our Team strives to build health and safety into all aspects of our business and into the thinking of our employees. As safety-oriented individuals, we all are dedicated to an Incident and Injury-Free (IIF) workplace. IIF is about care and concern for people; it is our personal and organizational commitment at all levels of our companies to everyone going home safe to their families every day. Working safely is an inseparable part of working correctly, just as much as other operational priorities, in particular quality, profitability, and schedule.

Our commitment to safety is demonstrated daily by project managers discussing and addressing site specific safety topics with our field representatives. Safety is a primary focus of our monthly department meetings where each meeting includes discussion of a safety topic. Safety is one of our core values and as a supplement to



10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

our Team's safety culture, each employee receives safety training specific to the job function and/or project assigned through one-on-one instruction, continuing education classes or web-based training seminars. We are confident our adoption of the IIF® philosophy will have a positive impact on this project.

7. Past Performance by person or firm on Parish contracts.

Terracon has developed a strong history of providing soil investigation services within the State of Louisiana. Through various projects, we have worked with the numerous local and state agencies including the Louisiana Department of Transportation and Development, Facility Planning, as well as local municipalities including surrounding Parishes including Jefferson Parish.

Terracon has worked with various parishes throughout Louisiana providing all services including soil investigation services, geotechnical engineering and design, laboratory services for inspection of materials and equipment. Some of our project examples are listed in Section L.

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:	Public Address:
Terracon Consultants, Inc.	Ms. Barbara Boerner10841 South Ridgeview Road Olathe, Kansas 66061

**License/Certificate Information w/
Supervision**

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0002749	Active	12/18/2001	03/31/2022	Mr. Stephen Eugene Greaber # PE.0026107 - Active ; Mr. Daren L. Thomas # PE.0036187 - Active ; Mr. Zack Lemual Dial III # PE.0034872 - Active ; Ms. Laura Jean Campa # PE.0040847 - Active



CERTIFICATE OF ACCREDITATION



Terracon Consultants, Inc.


in

New Orleans, Louisiana, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).


Jim Tymon,
AASHTO Executive Director


Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 03/08/2022 at 10:06 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in New Orleans, Louisiana, USA

Quality Management System

Standard:

Accredited Since:

R18	Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	01/03/2012
C1077 (Aggregate)	Laboratories Testing Concrete and Concrete Aggregates	07/27/2012
C1077 (Concrete)	Laboratories Testing Concrete and Concrete Aggregates	12/07/2012
D3740 (Soil)	Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	02/02/2012
E329 (Aggregate)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/27/2012
E329 (Concrete)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/07/2012
E329 (Soil)	Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/03/2014



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in New Orleans, Louisiana, USA

Asphalt Mixture

Standard:	Accredited Since:
T166 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	05/09/2016
D2726 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	05/09/2016



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Soil

Standard:	Accredited Since:
R58 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/03/2012
T88 Particle Size Analysis of Soils by Hydrometer	01/03/2012
T89 Determining the Liquid Limit of Soils (Atterberg Limits)	01/03/2012
T90 Plastic Limit of Soils (Atterberg Limits)	01/03/2012
T99 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/03/2012
T100 Specific Gravity of Soils	01/03/2012
T180 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/03/2012
T208 Unconfined Compressive Strength of Cohesive Soil	12/30/2013
T216 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	06/21/2021
T265 Laboratory Determination of Moisture Content of Soils	01/03/2012
T267 Determination of Organic Content in Soils by Loss on Ignition	01/03/2012
T296 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/13/2018
T310 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/03/2012
D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/03/2012
D422 Particle Size Analysis of Soils by Hydrometer	01/03/2012
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/03/2012
D854 Specific Gravity of Soils	01/03/2012
D1140 Amount of Material in Soils Finer than the No. 200 (75-µm) Sieve	01/03/2012
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/03/2012
D2166 Unconfined Compressive Strength of Cohesive Soil	12/30/2013
D2216 Laboratory Determination of Moisture Content of Soils	01/03/2012
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	06/21/2021
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	01/03/2012



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in New Orleans, Louisiana, USA

Soil (Continued)

Standard:	Accredited Since:
D2488 Description and Identification of Soils (Visual-Manual Procedure)	01/03/2012
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/13/2018
D2974 Determination of Organic Content in Soils by Loss on Ignition	01/03/2012
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	01/03/2012
D4318 Plastic Limit of Soils (Atterberg Limits)	07/13/2018
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	06/21/2021
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	12/30/2013
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/03/2012



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Aggregate

Standard:	Accredited Since:
R76 Reducing Samples of Aggregate to Testing Size	07/27/2012
R90 Sampling Aggregate	07/13/2018
T11 Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	07/27/2012
T19 Bulk Density ("Unit Weight") and Voids in Aggregate	07/27/2012
T21 Organic Impurities in Fine Aggregates for Concrete	07/27/2012
T27 Sieve Analysis of Fine and Coarse Aggregates	07/27/2012
T84 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/27/2012
T85 Specific Gravity and Absorption of Coarse Aggregate	07/27/2012
T255 Total Moisture Content of Aggregate by Drying	07/27/2012
C29 Bulk Density ("Unit Weight") and Voids in Aggregate	07/27/2012
C40 Organic Impurities in Fine Aggregates for Concrete	07/27/2012
C117 Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	07/27/2012
C127 Specific Gravity and Absorption of Coarse Aggregate	07/27/2012
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/27/2012
C136 Sieve Analysis of Fine and Coarse Aggregates	07/27/2012
C566 Total Moisture Content of Aggregate by Drying	07/27/2012
C702 Reducing Samples of Aggregate to Testing Size	07/27/2012
D75 Sampling Aggregate	07/13/2018



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Concrete

Standard:		Accredited Since:
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
R60	Sampling Freshly Mixed Concrete	07/27/2012
T22	Compressive Strength of Cylindrical Concrete Specimens	07/27/2012
T23	Making and Curing Concrete Test Specimens in the Field	08/15/2016
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	01/02/2015
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/15/2016
T119	Slump of Hydraulic Cement Concrete	07/27/2012
T121	Density (Unit Weight), Yield, and Air Content of Concrete	07/27/2012
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	07/27/2012
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/27/2012
T231 (5000 psi and below)	Capping Cylindrical Concrete Specimens	12/17/2019
T309	Temperature of Freshly Mixed Portland Cement Concrete	07/27/2012
C31	Making and Curing Concrete Test Specimens in the Field	08/15/2016
C39	Compressive Strength of Cylindrical Concrete Specimens	07/27/2012
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	01/02/2015
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/15/2016
C138	Density (Unit Weight), Yield, and Air Content of Concrete	07/27/2012
C143	Slump of Hydraulic Cement Concrete	07/27/2012
C172	Sampling Freshly Mixed Concrete	07/27/2012
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/27/2012
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	07/27/2012
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
C617 (5000 psi and below)	Capping Cylindrical Concrete Specimens	12/17/2019



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in New Orleans, Louisiana, USA

Concrete (Continued)

Standard:

Accredited Since:

C1064	Temperature of Freshly Mixed Portland Cement Concrete	07/27/2012
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	07/27/2012
C1542	Measuring Length of Concrete Cores	01/02/2015



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Masonry

Standard:

Accredited Since:


M201 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
C1019 Sampling and Testing Grout	07/27/2012



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/8/2022 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Ms. Lynne Elizabeth Roussel
15421 Campanile Court
Baton Rouge, Louisiana 70810

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Ms. Lynne Elizabeth Roussel		
License/Certificate Type - Number	Expiration Date	
PE.0035152	03/31/2022	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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

Disclaimer

All information provided by LPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LPELS.

If you need to make changes to your contact information, please choose one of the following options below:

Contact update for [Individuals and Firms](#)

License/Certificate Types:

EF = Engineering Firm

VF = Land Surveying Firm

CPD = Continuing Professional Development Sponsor/Provider

*PE = Professional Engineer

*PLS = Professional Land Surveyor

*EI = Engineer Intern

*LSI = Land Surveyor Intern

*PE Discipline Codes


AG	Agricultural	ME	Mechanical
AR	Architectural	MI	Mining or Mineral
CH	Chemical	MT	Metallurgical
CE	Civil	MU	Manufacturing
CS	Control Systems	NV	Naval Architecture & Marine
EE	Electrical & Computer	NU	Nuclear
EV	Environmental	ST	Structural *
FP	Fire Protection	PT	Petroleum
IE	Industrial		
* An engineer that has passed the Structural I exam is listed as a Civil Engineer. An engineer that has passed both the Structural I and II exams is listed as Structural (ST) and a Civil (CE) Engineer.			



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/8/2022 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Ms. Alice E. Stark
524 Elmwood Park Boulevard, Suite 170
New Orleans, Louisiana 70123

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Ms. Alice E. Stark		
License/Certificate Type - Number	Expiration Date	
PE.0044481	09/30/2022	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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AR	Architectural	MI	Mining or Mineral
CH	Chemical	MT	Metallurgical
CE	Civil	MU	Manufacturing
CS	Control Systems	NV	Naval Architecture & Marine
EE	Electrical & Computer	NU	Nuclear
EV	Environmental	ST	Structural *
FP	Fire Protection	PT	Petroleum
IE	Industrial		
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/8/2022 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Ms. Anjelica Maria Moran
2536 Somerset Drive
New Orleans, Louisiana 70131

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Ms. Anjelica Maria Moran		
License/Certificate Type - Number	Expiration Date	
EI.0033229	09/30/2023	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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