



STATEMENT OF QUALIFICATIONS:

24-15 TO PROVIDE ROUTINE ENGINEERING SERVICES
FOR DRAINAGE PROJECTS IN JEFFERSON PARISH

JUNE 21, 2024

PRESENTED TO: JEFFERSON PARISH PURCHASING DEPARTMENT

SUBMITTED BY: ROYAL ENGINEERS & CONSULTANTS, LLC

June 21, 2024

COVER SHEET

Jefferson Parish

SOQ No. 24-15,

Resolution No. 144202

STATEMENTS OF QUALIFICATIONS:
JEFFERSON PARISH TECHNICAL
EVALUATION COMMITTEE (TEC)
PROFESSIONAL SERVICES QUESTIONNAIRE
TO PROVIDE ROUTINE ENGINEERING
SERVICES FOR DRAINAGE PROJECTS IN
JEFFERSON PARISH

Royal Engineers and Consultants, LLC
1501 Religious Street, Suite C
New Orleans, Louisiana 70130
504.283.9400 (O) 504.283.9001 (F)

Primary Contact
Michael Pugh, P. E.
President
mpugh@royalengineering.net

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ No. 24-015 Provide Routine Engineering Services for Drainage Projects in Jefferson Parish Resolution No.144202

B. Firm Name & Address:



Royal Engineers and Consultants, LLC
 1501 Religious Street
 New Orleans, Louisiana 70130
 Phone: 504-283-9400
 Fax: 504-283-9001

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:

Michael L. Pugh, PE, President
 1501 Religious St., New Orleans, LA 70130
 O (504) 283-9400 | F (504) 283-9001 | mpugh@royalengineering.net
 PE Civil 30911, LA Expires 3-31-2026

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.

Katherine Foreman, PE
 1501 Religious St., New Orleans, LA 70130
 O (504) 283-9400 | F (504) 283-9001 | kforeman@royalengineering.net
 PE Civil 46031, LA, Expires 3-31-2026

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

11	Administrative	0	Estimators	0	Specification Writers
1	Architects (Licensed)	0	Geologists	2	Structural Engineers
0	Chemical Engineers	0	Geotechnical Engineers	0	Graduate Engineers
9	Civil Engineers	0	Interior Designers	13	Project Managers
11	Construction Inspectors	0	Landscape Architects	0	Clerical
0	Ecologists	0	Land Surveyor	4	Grant/Funding Specialist
0	Electrical Engineers	0	Mechanical Engineers	0	Sanitary Engineers
6	Engineer Intern	1	Environmental Engineers	26	Other
0	Professional Land Surveyors			84	TOTAL

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

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

TEC Professional Services Questionnaire

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

1. N/A

2. N/A

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

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

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

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

50

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:

Katherine Foreman, PE

Project Assignment:

Project Manager

Name of Firm with which associated:

Royal Engineers and Consultants, LLC



Years' experience with this Firm:

9

Education: Degree(s)/Year/Specialization:

BS / 2017 / Civil Engineering

Active registration: Year first registered/discipline:

PE 46031, Louisiana
Expiration: 3-31-2026
First Registered: 2021

Other experience and qualifications relevant to the proposed Project:

Ms. Foreman has nine years of experience in civil engineering design and construction management on project types including storm drainage systems, asphalt and concrete road design, sidewalks, potable water distribution systems, gravity sewer systems, flood control structures, commercial and residential site design, foundation design, and retaining walls. Her expertise includes familiarity with DOTD design manuals and specifications, ADA requirements, and AASHTO standards and the use of various software packages for H&H design and analysis such as HEC-HMS, HEC-RAS, DOTD HYDR programs, HY8, and Autodesk Storm and Sanitary Analysis. Ms. Foreman has significant experience preparing plans and specifications to LADOTD and local standards.

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed project (Katherine Foreman, Continued):

Polly Lane Extension, Lafayette, LA

Civil/Hydraulic Engineer responsible for performing engineering design services and construction management for the extension and connection of both existing dead-end streets of Polly Lane, inclusive of roadway reconstruction and widening to its existing section at Verot School Road. Ms. Foreman was responsible for performing engineering analyses for design of the storm drainage system, preparation of and revisions to construction documents, performing routine site visits, providing construction management/administration, and engineering support during construction, and overseeing resident inspection services throughout construction. As Project Manager, Ms. Foreman was responsible for invoicing, deliverables, scheduling, resourcing, and client coordination.

W. Metairie Avenue Over S. Suburban Canal Off System Bridge Jefferson Parish, LA

Project Manager for DOTD Off-System Bridge (OSBR) replacement of an existing slab span bridge located in an urban area of Jefferson Parish. Ms. Foreman's responsibilities include managing all aspects of design and client relations, overseeing plan production in accordance with the Off-System Highway Bridge Program Guidelines, leading the hydraulic analysis and design for all viable alternatives for the bridge replacement per the DOTD Hydraulics Manual, and coordinating survey efforts. Services provided by Royal include topographic and boundary survey, preliminary plan production, right-of-way agreements and sketches, and environmental services, including solicitation of views, categorical exclusion clearance, wetland studies, and other information needed for the Environmental Clearance process.

CNO Street Repair – Leontine, Valmont, Camp, and Chestnut Streets, New Orleans, LA

Ms. Foreman was the Project Manager on team providing Engineering Design and Construction Administration Services for the City of New Orleans for roadway enhancement and full reconstruction of streets and utilities in a portion of the Uptown neighborhood of New Orleans, Louisiana. Royal provided main line drainage design, water line replacement design, and sewer line replacement design for portions of Camp Street, Leontine St., Valmont St., Coliseum St., and Chestnut St. in accordance with New Orleans Department of Public Works and New Orleans Sewerage and Water Board requirements. Ms. Foreman was responsible for performing drainage analyses to layout and size the proposed curb and gutter drainage system and coordinating preparation of AutoCAD drawings for Preliminary and Final Plans.

Iberia Parish Water Control Structures, Iberia Parish, LA

Ms. Foreman coordinated the design of three flap-gated water control structures for the Iberia Parish Government, intended to improve gravity drainage of stormwater within the Parish. Project responsibilities include developing combined 1D/2D HEC-RAS models to analyze the existing capacities three main canal structures, incorporating culvert and flapgate structures into the HEC-RAS models to properly size the structures and analyze effects of the structures on the floodplain of each channel, and preparing detailed modeling reports.

Camellia - Settlers Trace Turn Lane, Lafayette, LA

Project Manager on team providing engineering services to the Lafayette Consolidated Government for the design of a dedicated right turn lane and second left turn lane at the intersection of Camellia Boulevard and Settlers Trace Boulevard. Services consist of preparing plans and specifications for construction of the project and performing engineering design and analyses for widening of the concrete roadway, evaluation of the existing drainage infrastructure, and identifying required modifications to the existing drainage system. Ms. Foreman was responsible for site layout, engineering calculations for evaluation of the storm drainage system, utilities coordination, and coordinating preparation of construction documents. Ms. Foreman is also responsible for invoicing, deliverables, scheduling, resourcing, and client coordination.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Robert Klare, PE
Project Assignment:
Deputy Project Manager
Name of Firm with which associated:
Royal Engineers and Consultants, LLC 
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
Bachelor of Science Engineering/2013/Civil
Active registration: Year first registered/discipline:
PE 42991, Louisiana Expiration: 3-31-2025 First Registered 2018
Other experience and qualifications relevant to the proposed project:
Mr. Klare has extensive experience in sewer, drainage, road and sidewalk design for Jefferson Parish and Louisiana projects. Technical skills include AutoCAD, EPA SWMM, and LADOTD Hydraulic Design Software. He has a Bachelor of Science in Civil Engineering from LSU, and his related coursework included Intro to Surveying, Advanced Surveying, Hydrologic Design, Steel Design, Concrete Design, and Deep Foundations.

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed project (Robert Klare, Continued):

Lemon / Lime Street Drainage, Jefferson Parish, LA

Mr. Klare assisted in design of the full reconstruction of Lemon and Lime streets from Veterans Highway to W. Esplanade Ave in Metairie, LA. The project included new sewer, water, and drainage design; full roadway vertical and horizontal design; striping and traffic control/detour plans.

Crown Point Drainage and Levee, Jefferson Parish, LA

Mr. Klare worked as part of a design team for the creation of a new levee system in Crown Point, Jefferson Parish, LA. The system included the improvements to the levee itself, redesign of protected side drainage, and design of new pump stations.

Lafitte Drainage, Jefferson Parish, LA

Design for numerous roadside drainage improvements to the Town of Jean Lafitte and surrounding areas.

CNO Street Repair – Leontine, Valmont, Camp, and Chestnut Streets, New Orleans, LA

While at a previous firm, Mr. Klare worked with Royal to provide Engineering Design and Construction Administration Services for the City of New Orleans for roadway enhancement and full reconstruction of streets and utilities in a portion of the Uptown neighborhood of New Orleans, Louisiana. Royal's Engineering Design services included performing drainage analyses in accordance with City of New Orleans and DOTD requirements, determining proposed alignments and elevations of proposed sewer and water lines in compliance with required clearances with other utilities.

Subdivision Design, Multiple Parishes, LA

Mr. Klare completed the design of multiple new subdivisions in the Greater New Orleans Area. Notable projects include The Parks of Plaquemines (Plaquemines Parish), The Colony Phase 2 (Jefferson Parish), River Road Estates (St. Charles Parish), and Hidden Creek (St. Tammany Parish). The design included roadway (vertical and horizontal), sewer gravity, sewer force main, water, and environmental permitting.

Construction Management and Estimating Services for Nashville Wharf A Substructure Repairs, Port of New Orleans, New Orleans, LA

Project Engineer responsible for assisting the project manager with construction management services, including cost estimating, constructability reviews, document control, field representation, and supporting Port NOLA with project close out for the repair of the substructure of the Nashville Wharf "A" facility located on the Mississippi River in New Orleans, LA. The existing wharf was constructed in 1960 and 1961 and is approximately 2,400 linear feet long and 214 feet wide and supported by approximately 371 steel piles.

Roadway Restoration for Bayou St. John, Fairgrounds, and Seventh Ward Group B Roads, New Orleans, LA

Project Engineer responsible for providing construction administration, and construction management for the City of New Orleans Department of Public Works. Mr. Klare works with the project manager to provide field management of the contractor and all construction activities, including conducting progress meetings, dealing with resident complaints, review and recommending for approval of monthly pay estimates, assisting in field adjustments, and using knowledge and experience in civil construction to ensure the project remains on schedule and budget.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Michael Pugh, PE, President
Project Assignment:
Principal
Name of Firm with which associated:
Royal Engineers and Consultants, LLC 
Years' experience with this Firm:
19
Education: Degree(s)/Year/Specialization:
BS / 1997 / Civil Engineering
Active registration: Year first registered/discipline:
PE 30911, Louisiana Expiration: 3-31-2026 First Registered 2003
Other experience and qualifications relevant to the proposed project:
<p>Mr. Pugh has over 29 years of experience in the design of roadway plans and the construction management of roadway, drainage, and sewer systems. He managed the St. Bernard Parish Roadway Restoration Program which has included the design, bidding, and construction management of 178 roadways with a construction value of nearly \$60 million. He has served as the Principal Engineer on a variety of sewer and drainage projects and is a Registered Professional Engineer in eight states, including Louisiana. As Royal's Principal-In-Charge, Mr. Pugh is responsible for the company's overall project delivery and supervising all technical operations of the company including plan preparation, budgeting, cost control and monitoring, team supervision, engineering design, and construction management.</p>

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed project (Michael Pugh, Continued):

Citywide Construction Administration and Resident Inspection Services for Sewerage and Water Board of New Orleans and City of New Orleans DPW Cooperative Agreement, New Orleans, LA

Principal in Charge of team contracted to provide construction management and inspection services for annual maintenance contractors in five (5) maintenance zones, performing repair and restoration of pavement and associated infrastructure, including utility repair and replacement (water, sewer & drainage), sidewalks, ADA-Compliant Ramps, as well as replacement and repair to associated infrastructure., with a monthly total of 30-35 sites per maintenance zone. Responsibilities included team mobilization, including serving as principal engineer and assignment of senior project manager, lead project manager, scheduler, lead technician to coordination construction and inspection who is always on-site, lead and associated inspectors, project engineers, and associate technicians for document control and QA/QC of documentation.

City of New Orleans Roadway Restoration Program CM and Inspection, New Orleans, LA

Principal Engineer on the Royal team contracted by the Department of Public Works (DPW) to provide construction management and resident inspection services for the City of New Orleans Roadway Restoration Program CM and Inspection. This project includes the restoration of parish concrete and asphalt roadways and associated infrastructure (i.e., sidewalks, driveways, drainage, sewer, and water) that suffered damage during Hurricane Katrina. Construction services are being performed by multiple contractors under contract by DPW and overseen by Royal. Royal is providing all construction management, data management, reporting, platform deployment, quality assurance, administration, pay applications, resident inspection, and closeout services.

St. Bernard Parish Government Pre-Cast Con-Span Canal Crossings Engineering and CM Services, St. Bernard, LA

Principal Engineer on team contracted for civil engineering, design, surveying, geotechnical, field layout, bidding, construction administration, resident inspection, technical/engineering project close-out, construction management (CM) services. Responsibilities included project governance, subject matter expert for design input, and team mobilization for replacing 6 culverts with precast Con-Span structures and increasing the existing hydraulic capacity of the canal.

Bloski Avenue Extension, Belle Chasse, LA

Principal Engineer for this road construction project. Royal worked directly for the Naval Facilities Engineering Command Southeast as the prime contractor. This project consisted of constructing a 1,300- foot asphalt roadway and included the construction of stormwater drainage, sidewalks, concrete driveways, and solar street lighting. Through value engineering efforts, Mr. Pugh reduced NAVFAC's cost by \$800K and reduced the project schedule by 50 days. Royal was also responsible for the development and maintenance of the Stormwater Pollution Prevention Plan (SWPPP), Environmental Protection Plan (EPP), Health & Safety Plan (HASP), and Accident Prevention Plan (APP).

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Carter O'Brien, PE
Project Assignment:
Senior Project Engineer
Name of Firm with which associated:
Royal Engineers and Consultants, LLC 
Years' experience with this Firm:
6
Education: Degree(s)/Year/Specialization:
BS / 2013 / Civil Engineering
Active registration: Year first registered/discipline:
PE 43647, Louisiana Expiration: 3-31-2026 First Registered 2019
Other experience and qualifications relevant to the proposed project:
<p>Mr. O'Brien is an Engineer with over 17 years of heavy civil, roadway, drainage, and bridge construction experience. Mr. O'Brien has managed field operations, inspectors, project documentation, and closeout on numerous projects. He has completed road restoration and reconstruction projects for DOTD, FEMA, and other local agencies. He has extensively worked in asphalt paving, PCCP, catch basins, drainage, and sidewalk projects. Mr. O'Brien has significant experience preparing plans and specifications in accordance with DOTD and local standards.</p>

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed project (Carter O'Brien Continued):

FEMA Roadway Restoration Program, New Orleans, LA

Project Manager on the Royal team contracted by the City of New Orleans Department of Public Works (DPW) to provide construction management services for the Federal Emergency Management Agency (FEMA) Roadway Restoration Program. This project includes the restoration of parish concrete and asphalt roadways and associated infrastructure (i.e., sidewalks, driveways, drainage, sewer, and water) that suffered damage during Hurricane Katrina. Construction services are being performed by multiple contractors under contract by DPW and overseen by Royal. Royal is providing all construction management, data management, reporting, platform deployment, quality assurance, administration, pay applications, and closeout services. Mr. O'Brien performs quality control on the contractor's monthly invoices, management of resident inspectors, and project funding quality control.

South Shore Design Basin, New Orleans, LA

Project Engineer for the Royal team contracted to manage the design of the South Shore Area Sewer System restoration in Eastern New Orleans. The system is comprised of approximately 4,500 acres and has a sewer system that contains approximately 2,200 manholes and over 546,000 linear feet of gravity sewers. As Project Engineer, Mr. O'Brien evaluated defect coding, generated associated work order plots, and assisted with contract packaging. He also performed reviews of project specifications and drawings.

Emergency Catch Basin Cleaning and Repairs, New Orleans, LA

Project Manager on the Royal team for the City of New Orleans Department of Public Works (DPW) Emergency Catch Basin Cleaning and Repair Program. Royal provided over 50 inspectors with supporting construction administration personnel to clean more than 15,000 catch basins in 120 calendar days within the City of New Orleans. Mr. O'Brien performed quality control on the contractor's monthly invoices, management of resident inspectors, and project funding quality control.

Construction Management and Estimating Services for Nashville Wharf A Substructure Repairs, Port of New Orleans, New Orleans, LA

Project manager responsible for providing construction management services including cost estimating, constructability reviews, document control, field representation, and supporting Port NOLA with project close out for the repair of the substructure of the Nashville Wharf "A" facility located on the Mississippi River in New Orleans, LA. The existing wharf was constructed in 1960 and 1961 and is approximately 2,400 linear feet long and 214 feet wide and supported by approximately 5,371 steel piles. The steel pile type varies throughout the structure. The delivery method for the project is Construction Management at Risk (CMAR).

Jourdan Rd Wharf Terminal Substructure Repairs, New Orleans, LA

Project Manager responsible for providing construction management services, including constructability reviews, document control, field representation, supporting Port NOLA with project close out for the repair of the substructure of the wharf at the Jourdan Road Terminal on the Gulf Intracoastal Waterway in New Orleans. The existing wharf is more than 40 years old, measures 1,400 linear feet long by 265 feet wide consisting of pre-cast and cast-in-place deck elements supported by 2,000 open-ended steel pipe piles which are 14" and 16" in diameter with a 3/8" wall thickness and contain a fibrous jacket on the top 6 to 8 feet that is known to contain asbestos. The delivery method for the project is Construction Management at Risk (CMAR).

East Hardy Street Bridge Replacement, Hattiesburg, MS

Engineer on the Royal team contracted by SDW to provide Engineering services for bridge design, layout, specifications, and probable cost. Mr. O'Brien assists in bridge layout, cost estimation, bid package development, and structural design team and drafter coordination.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Cassidy Melancon, EI
Project Assignment:
Engineer Intern (Civil)
Name of Firm with which associated:
Royal Engineers and Consultants, LLC 
Years' experience with this Firm:
4
Education: Degree(s)/Year/Specialization:
BS /2020/Civil Engineering
Active registration: Year first registered/discipline:
EI 0034626, Louisiana Expiration: 03-31 -2025 First Registered 2020
Other experience and qualifications relevant to the proposed project:
<p>Ms. Melancon is an Engineer Intern with a bachelor's degree in civil engineering and has four years of industry experience, including assisting with engineering and project management services. Her responsibilities in engineering range from various design tasks regarding drainage, roadway, and structural analyses to drafting and maintaining project files. Her project management assistance included reviewing inspector observations and quantities.</p>

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed project (Cassidy Melancon, Continued):

SLECA Road Repairs – Ashland Road and Detiveaux Road, Terrebonne Parish, LA

For the Ashland Road section, Ms. Melancon was an Engineer Intern responsible for plan development, creating a topographic survey surface using point elevation data, and performing a Hydrologic Modification Impact Analysis (HMIA) to support the Coastal Use Permit process. Royal provided engineering design, permitting, and construction administration and management services for two roadways providing access to SLECA's electrical distribution infrastructure in Houma, LA: Detiveaux Rd, a 1.5-mile-long aggregate roadway providing access to the Bayou Dularge Main Feed, and Ashland Rd, a 2.3-mile-long aggregate roadway providing access to the Ashland Substation.

W. Metairie Avenue Over S. Suburban Canal Off System Bridge, Jefferson Parish, LA

Ms. Melancon is an Engineering Intern responsible for site layout, roadway vertical curve design, guardrail layout, and supporting plan production for this DOTD Off-System Bridge (OSBR) replacement of an existing slab span bridge located in an urban area of Jefferson Parish. Services provided by Royal include topographic and boundary survey, preliminary plan production, right-of-way agreements and sketches, and environmental services, including solicitation of views, categorical exclusion clearance, wetland studies, and other information needed for the environmental clearance process.

NAVFAC P526U P529U, VCC and Inspection Facility AE, Belle Chasse, LA

Engineer Intern responsible for civil design of site grading, roadway vertical alignment, and stormwater analysis and design in accordance with UFC, AASHTO, DOTD, and Military design standards. Contracted services include architectural, structural, and civil design services for a design-build project to construct a new entry control facility including a Visitor Control Center, Commercial Vehicle Inspection station, commercial roadway, and associated site infrastructure for the Naval Air Station Joint Reserve Base (NAS JRB) in Belle Chasse, LA. Additional civil site design features include low-impact development (LID) stormwater infrastructure, signage, water and sewer utilities, and pavements.

Odyssey House Parking Lot Design, New Orleans, LA

Engineer Intern responsible for developing design plans for an approximately 7,854 SF lot for constructing an accessory parking lot, including implementing a permeable pavement system to comply with City of New Orleans stormwater ordinances. Design tasks included preparing site grading plans, concrete joint layouts, and performing pre- and post-development drainage calculations. Construction features include approximately 3,552.8 SF of concrete paving, 2,298.7 SF of permeable pavers, 2,298.7 of 24" thick permeable paving base course, 239.9 LF of barrier curbing, 173.3 LF of perforated underdrain pipes, 105.7 LF of PVC drainage pipe, two drain inlets, and pavement striping to delineate parking spaces.

SBPG East Bank Sediment Transport Corridor – St Bernard Parish and Plaquemines Parish, LA

Engineer Intern responsible for structural design of box culverts and retaining walls, guardrail design, temporary traffic control plans, and preparing quantity takes and cost estimates for the design of roadway regrading and reconstruction to facilitate installation of a permanent pipeline casing adjacent to the Mississippi River Levee. The permanent pipeline casing is required as part of a proposed corridor through Plaquemines and St. Bernard Parishes that would deliver dredged sediment from point bars within the Mississippi River to marsh creation areas within the Breton Sound.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ryan Hebert, PE
Project Assignment:
Civil / Environmental Engineer
Name of Firm with which associated:
Royal Engineers and Consultants, LLC 
Years' experience with this Firm:
4
Education: Degree(s)/Year/Specialization:
BS 2017 Environmental Engineering
Active registration: Year first registered/discipline:
PE 0046577, Louisiana Expiration : 09-30-2024 First Registered: 2022
Other experience and qualifications relevant to the proposed project:
Mr. Hebert is a Professional Engineer with a degree in Environmental Engineering and has experience in construction operations for street, sewer, and water systems repair. Specific project experience includes catch basin cleaning, asphalt and pavement patching, ADA project elements, and water and sewer line repairs. Mr. Hebert provides inspection services and project and construction management support for Royal projects which includes assisting with project scheduling and coordination, quality control, and ensuring retention of administrative records.

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed project (Ryan Hebert, Continued):

FEMA Roadway Restoration Program, New Orleans, LA

Assistant Project Manager responsible for construction administration and management services for pavement restoration efforts undertaken by the City of New Orleans (CNO) Department of Public Works (DPW) as part of the CNO Capital Improvement Program. DPW has two construction contractors (GC's) under contract to perform routine maintenance under a requirements-based contract. These contractors are dispatched on a work order-based system to repair and restore pavement and associated infrastructure. These projects include pavement restoration, drainage repair, and replacement, sidewalks, ADA-Compliant Ramps, and replacement and repair to associated infrastructure.

City-Wide Construction Administration and Resident Inspection Services, New Orleans, LA

Associate Inspector for the Royal team contracted by the City of New Orleans Department of Public Works to provide construction management and resident inspection services for roadway restorations of water and sewer service cuts throughout the City. The program consisted of assessing over 30,000, cleaning over 15,000 and repairing over 3,000 catch basins. Also, under the City's contract, Mr. Hebert served as associate inspector for eight full roadway rehabilitations including base excavation and installation, asphaltic concrete mill and overlay, and concrete pavement installation. He regularly assists in project scheduling and coordination and is responsible for maintaining quality control and completing administrative records.

Emergency Catch Basin Cleaning and Repairs, New Orleans, LA

Associate Inspector for the City's catch basin cleaning and repairs project. Royal provided over 50 inspectors with supporting construction administration personnel to clean more than 15,000 catch basins in 120 calendar days within the City of New Orleans. The program also included inspection and management for over 3,000 catch basin repairs. Mr. Hebert was responsible for quality assurance and control of all field information captured by resident inspectors, including daily review of quantifiable pay items and photos of the work to be quantified.

New Orleans Sewage and Water Board Sewer Repairs, New Orleans, LA

Mr. Hebert served as an associate inspector and assistant project manager for the Royal team which was contracted by the City of New Orleans Sewerage and Water Board to provide inspection for water and sewer line repairs. Mr. Hebert was responsible for quality assurance and control and work order development.

Interim Paving Program, New Orleans, LA

Assistant Project Manager and Lead Inspector for the team providing part-time inspection for temporary roadway restorations of water and sewer cuts throughout the city. The program consisted of identifying over 1,000 service cuts and nearly 800 completed repairs in a matter of 6 months. Mr. Hebert was responsible for maintaining quality assurance and control of all field information captured by inspectors and oversaw work order development.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
William Fontenot, PE
Project Assignment:
Structural Engineer/Quality Control
Name of Firm with which associated:
Royal Engineers and Consultants, LLC 
Years' experience with this Firm:
4
Education: Degree(s)/Year/Specialization:
BS / 2012 / Civil Engineering
Active registration: Year first registered/discipline:
PE 41036, Louisiana Expiration: 03-31-2025 First Registered 2016
Other experience and qualifications relevant to the proposed project:
<p>Mr. Fontenot has more than 11 years of experience in civil and structural engineering, construction consulting, and structural inspection and repair. He has performed on-site inspection of structural deficiencies for statewide projects and engineered safe, economic approaches to specific construction problems related to various heavy construction projects including flood control and drainage structures.</p>

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed project (William Fontenot, Continued):

SBPG East Bank Sediment Transport Corridor – Hwy 15 Road Reconstruction and Canal Crossings – Plaquemines and St. Bernard Parishes, LA

Civil/Structural Engineer responsible for designing canal crossing structures and sheet pile bulkhead systems, overseeing the structural design of box culverts and retaining walls, and performing design reviews for the design of roadway regarding and reconstruction to facilitate installation of a permanent pipeline casing adjacent to the Mississippi River Levee. The permanent pipeline casing is required as part of a proposed corridor through Plaquemines and St. Bernard Parishes that would deliver dredged sediment from point bars within the Mississippi River to marsh creation areas within the Breton Sound.

Camellia - Settlers Trace Turning Lane, Lafayette, LA

Civil/Structural Engineer providing engineering services during construction for Lafayette Consolidated Government. Project features include a dedicated right turn lane and a second left turn lane at the intersection of Camellia Boulevard and Settlers Trace Boulevard. Services consist of preparing plans and specifications for the project's construction and performing engineering design and analyses for widening the concrete roadway, evaluating the existing drainage infrastructure, and identifying required modifications to the existing drainage system. Additional project features include road striping, sidewalk relocation, and street lighting. Mr. Fontenot served as structural subject matter expert, completing the re-design of the catch basin to accommodate changing project needs.

Luling Bridge Deck Overlay and Repairs, St. Charles Parish, LA

Mr. Fontenot revised original traffic control plans and diversion crossovers to expedite construction sequencing and feasibility. Additionally he updated drainage plans to match revised traffic control plans. Tasks performed include: geometric Design of Diversion Crossovers, hydraulic analysis of watershed area for new and existing drainage design, traffic control layout and phasing plans throughout the project, assisted construction efforts in the field using survey data and design plans, design of debris screen for sandblasting operations near adjacent traffic, quality control of final plans, quantification of cut/fill and roadway elements for cost estimates. Codes used include: AASHTO Roadside Design Guide, AISC Steel Construction Manual, ACI 318-11 Building Code Requirements for Structural Concrete, MUTCD, LADOTD Traffic Control Standard Plans, AASHTO Guide Design Specifications for Bridge Temporary Works, LADOTD Hydraulics Manual.

Iberia Parish Government Water Control Structures, Iberia Parish, LA

Mr. Fontenot is the structural engineer for Iberia Parishes regional flood protection program which is associated with multiple drainage canals that are tidally influenced. Hydraulic/Hydrologic modeling efforts are ongoing to determine flow characteristics within the channels, so that flood control gates can be designed to prevent upstream flooding. The gates must take into account head losses, so that still water elevations within the channels do not increase. The project has included the design of seven new water control structures on seven different canals which are experiencing flood and drainage issues within Iberia Parish. One of the designs has already completed construction with a second design currently under construction.

South Louisiana Electric Cooperative Association (SLECA) Hurricane Ida Recovery, Terrebonne Parish, LA

Senior Structural Engineer on the team providing ongoing support with management activities including attendance, facilitation, and recording of client meetings; establishment and maintenance of electronic document management system; oversight and assistance with damage assessments; assistance with procurement activities; review and assistance in processing requests for reimbursement; progress and financial reporting to SLECA and GOHSEP; functioning as liaison with local, state, and federal representatives; and working closely with GOHSEP and FEMA on the development of FEMA Project Worksheets (PW).

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Kenneth Odinet, III, EI
Project Assignment:
Engineer Intern (Civil)
Name of Firm with which associated:
Royal Engineers and Consultants, LLC 
Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
BS / 2022 / Civil Engineering
Active registration: Year first registered/discipline:
EI0035301, Louisiana Expiration: 03-31-2025 First Registered: 2022
Other experience and qualifications relevant to the proposed project:
Mr. Odinet is an Engineer Intern with a degree in civil engineering and has project experience which includes drainage and sewer engineering, roadway and levee construction, environmental assessments, and the development and review of structural engineering calculations and drawings.

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed project (Kenneth Odinet, Continued):

East Bank Sediment Transport Corridor, St. Bernard and Plaquemines, Louisiana

Engineer in Training on the team responsible for designing a corridor that will deliver dredged sediment from point bars in the Mississippi River to marsh creation areas. Mr. Odinet surveyed levee and road transects and calculated the scour of a culvert. He also helped track the boats that used anchorage areas in the Mississippi River, to use as evidence in justifying the removal of an anchorage area for use as a borrow area for the pipeline.

South Louisiana Electric Cooperative Association (SLECA) Hurricane Ida Recovery, Terrebonne Parish, LA

Engineer in Training on the team engaged by SLECA following Hurricane Ida that is responsible for performing damage assessments on approximately 15 different properties throughout the affected area. Mr. Odinet surveyed road transects in support of the development of engineering drawings for two stone- surface roadways that are being re-built as part of the recovery efforts.

Jefferson Davis Electric Cooperative Hurricane Recovery FEMA Environmental and Historic Preservation (EHP) for 69KV Transmission, Jeff Davis and Cameron Parish, LA

Engineer in Training on the team responsible for FEMA EHP-related activities associated with Jefferson Davis Electric Cooperative's (JDEC) hurricane Laura recovery efforts, including ensuring all response, recovery, and resiliency improvements comply with the National Environmental Policy Act and State and local laws. JDEC's transmission and distribution infrastructure was devastated and requires over \$300M in planning, design, and construction to be repaired. Mr. Odinet co-authored a Programmatic Environmental Assessment, writing sections related to noise and traffic. He also performed analyses on river crossings across the state to estimate the required clearance height for transmission lines for boats traffic.

Rebuild Florida Housing Repair and Replacement Program, Statewide, FL

Engineer-In-Training involved with the Rehabilitation Services and Program Administration and Management Services for Royal's work on the DEO Housing Repair and Replacement Program (HRRP), which provides housing assistance to those affected by Hurricane Irma in September 2017. Mr. Odinet assists in the coordination and execution of structural assessments of homes damaged by extreme winds and flooding of the hurricane. Mr. Odinet has inspected homes of lumber framing, concrete masonry units, and reinforced concrete construction and foundations of pier-and-beam and slab-on-grade type. For each inspection, Mr. Odinet assists with the development and review of a detailed structural assessment report which addresses the causes of the structural deficiencies discovered and provides a comprehensive solution and construction cost estimate to bring the damaged home back to a habitable state of repair. Additionally, Mr. Odinet is involved with the development and review of structural engineering calculations and drawings to adequately design structural systems of each home as necessary, including foundation, floor, wall, and roof elements. As necessary, the structural design of the elements of each home complied with codes, standards, and guidelines of the Florida Residential Code (FRC), National Design Specifications for Wood Construction and the Wood Frame Construction Manual (WFCM), American Society of Civil Engineers (ASCE), and American Concrete Institute (ACI).

Louisiana Watershed Initiative (LWI) Round 2 H&H Assessments, Lafayette, LA

Engineer-In-Training on the team performing hydrologic and hydraulic (H&H) assessments for the Louisiana Watershed Initiative (LWI) Round 2 projects. Mr. Odinet is performing hydraulic analysis for the Brown Memorial Park project which aims to decrease the impact of flooding in the vicinity of the project through the construction of a detention pond and buyout of homes experiencing repetitive loss. Mr. Odinet's tasks include deriving a project breakout model from the Vermillion River Watershed HUC8 model using HEC-RAS, analyzing existing and proposed model scenarios using 10-year and 100-year design storm events, and preparing an H&H Report in accordance with the program checklist with conclusions to support the desired project benefit.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Zachary Romaine, PE
Project Assignment:
Environmental Engineer
Name of Firm with which associated:
Royal Engineers and Consultants, LLC 
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
MS / 2016 / Coastal and Ecological Engineering BS / 2014 / Environmental Engineering
Active registration: Year first registered/discipline:
PE 0045158 Louisiana Expiration: 03-31-2025 First Registered: 12/10/2020
Other experience and qualifications relevant to the proposed project:
Mr. Romaine is a professional engineer with seven years of experience in civil, environmental, and coastal engineering and construction, primarily in Louisiana. His education includes a B.S. in Environmental Engineering and an M.S. in Coastal and Ecological Engineering. Mr. Romaine's background and studies included geotechnical engineering, hydrology, civil and environmental engineering, and coastal engineering. Mr. Romaine's project experience includes geotechnical analyses, open channel hydraulics, and design and construction of coastal structures, with specializations in marsh creation and shoreline protection. Mr. Romaine serves on Royal's project technical and design teams and has been responsible for permitting activities, engineering design, project management, and development and compilation of project plans and specifications. His GIS/CADD expertise includes the use of various software packages for the development of graphical representations of data collected, including QGIS Desktop and AutoCAD Civil 3D.

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed project (Zachary Romaine, Continued):

Iberia Parish Water Control Structures, Iberia Parish, LA

Lead Engineer and Project Manager. Mr. Romaine has been responsible for the direction of topographic, bathymetric, and geotechnical surveys; land use research; the delineation of watersheds and hydraulic modeling via HEC-HMS and HEC-RAS 1D/2D; preparing preliminary and final designs and probable opinions of construction cost of seven water control structures projects located throughout Iberia Parish and along the proposed levee alignment identified in the 2016 Iberia Parish Levee, Hurricane, and Conservation District Coastal Protection Master Plan. One structure has been constructed, one structure is currently being constructed, and the remainder are in various stages of final design and permitting through both USACE and the Office of Coastal Management.

Dredged Material Management Planning, Port Fourchon, Lafourche Parish, LA

Dredge Engineer. Mr. Romaine assisted with the development of a dredged material management plan (DMMP) for activities related to the dredging of a ship berth and turning basin for a proposed liquified natural gas (LNG) processing facility. As part of this project, Mr. Romaine assisted with development of dredged material quantities, analysis of geotechnical borings, calculation of tidal datums, calculations of fill quantities, and the development of alternative beneficial use sites. Mr. Romaine also served as the technical lead regarding analysis of future maintenance requirements within the proposed ship berth, which included research of existing shoaling rates in the local area and prediction of shoaling rates in the proposed ship berth using Delft3D.

Lake Lery Marsh Creation and Rim Restoration- Phase III Independent Technical Review, St. Bernard Parish, LA

Project Manager. Royal is providing the St. Bernard Parish Government (SBPG) with technical review services for the Lake Lery Marsh Creation and Rim Restoration – Phase III project. Scope of services overseen by Mr. Romaine have included: development of scope of services to assist SBPG in soliciting proposals for design and engineering of the project; coordination with the client and engineering team; and review of deliverables including data collection, preliminary and final design, plans, specifications, permits, and the final bid package.

East Bank Sediment Transport Corridor, St. Bernard and Plaquemines Parishes, LA

Project Engineer. Mr. Romaine assisted with the design of a corridor through Plaquemines and St. Bernard Parishes that would deliver dredged sediment from point bars within the Mississippi River to marsh creation areas within the Breton Sound and the Pontchartrain Basin. As part of this project, Mr. Romaine assisted with developing criteria by which the alternative corridor alignments and configurations would be vetted as viable options, using these developed criteria to evaluate the optimum project layout, and generating preliminary cost estimates of each sediment delivery method.

Rabbit Island Restoration Project (CS-80), Cameron Parish, LA

Engineering Support. This project aimed to restore Rabbit Island via hydraulic dredging to restore and enhance nesting bird habitat. Responsibilities included the initial gathering and review of all available coastal process data pertinent to the project design, such as local water level information, wind information, topographic surveys, geotechnical information, and available sediment data. Mr. Romaine assisted with an alternatives evaluation; initial cost estimate for various project alternatives; design of the fill area, access routes, and borrow areas; preparation of preliminary and final design reports; and construction management services.

Replacement of Wave Attenuators, Cypremort Point, LA, St. Mary Parish, LA

Mr. Romaine provided project management and engineering services for the construction of a shoreline protection structure at the Cypremort Point State Park beach. Engineering tasks included: the sizing and construction of a breakwater system; utilization of an encapsulated lightweight aggregate core; analysis of geotechnical borings and proposed structure settlements; preparation of cost estimates via proposed unit fill volumes and recent bid data; and generation of CADD plans and specifications. In addition, he has been responsible for all construction management tasks.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
T. Mitchell Andrus, PH.D., PE Senior Vice President
Project Assignment:
Subject Matter Expert
Name of Firm with which associated:
Royal Engineers and Consultants, LLC 
Years' experience with this Firm:
17
Education: Degree(s)/Year/Specialization:
MS / 2007 / Oceanography & Coastal Sciences BS / 1997 / Civil Engineering, Minor-Env. Eng. Delft3D Basic Course: Hydrodynamics, Sediment Transport, and Bed Dynamics, Deltares, Delft, Netherlands, Oct. 2014
Active registration: Year first registered/discipline:
PE 30246, Louisiana Expiration : 09-30-2024 First Registered 07/02/2002
Other experience and qualifications relevant to the proposed project:
<p>During his 17 years with Royal, Dr. Andrus has served as the principal engineer and Subject Matter Expert on projects that have included design services for site layout, road design, grading and shaping for drainage, including retention pond design, wastewater treatment plant design, and layout/sizing of utilities. He was also the Principal Hydraulic Engineer responsible for overseeing the design of a proposed drainage channel and has experience with roads, housing, marsh creation, flood control structures, and reviews of HEC-HMS hydrologic and HEC-RAS hydraulic numerical computer models.</p>

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed project (Mitchell Andrus), Continued):

Polly Lane Extension, Lafayette, LA

Principal Engineer providing oversight of design services for the extension and connection of both existing dead-end streets of Polly Lane, inclusive of roadway reconstruction and widening to its existing section to Verot School Road. The approximate length of the new roadway is 1,080 linear feet, and the length of improvements to the existing roadway is 930 linear feet. The roadway extension/connection will consist of a 2-lane asphaltic concrete roadway with open ditched (with possible subsurface drainage in some areas), a concrete box culvert over Issac Verot Coulee Lateral 7, sidewalks, and street lighting.

Lake Charles Housing Development, Calcasieu Parish, LA

Lead Civil Engineer on the team that developed a 639-home subdivision in Calcasieu Parish near Lake Charles, LA. This included using collected information to perform design services for site layout, road design, grading and shaping for drainage, including retention pond design, wastewater treatment plant design and layout/sizing of all utilities. Mr. Andrus reviewed preliminary and final design drawings, specifications, permits, and technical memoranda for civil engineering and site development.

Camp Lejeune Hydraulic Study, Jacksonville, NC

Lead Civil Engineer for a hydraulic study of two (2) treated water distribution systems at Camp Lejeune. Royal was responsible for performing the hydraulic analysis of the two main treated water distribution systems at Camp Lejeune and for providing near-term recommendations for water-sharing opportunities with COJ and ONWASA to manage and sustain groundwater resources within the Onslow County watershed.

Choctaw Point Drainage Canal, Design and Construction Services, Mobile, AL

Principal Hydraulic Engineer responsible for overseeing the design of a proposed drainage channel to be constructed by the Alabama State Port Authority at the Garrows Bend Intermodal Container Transfer Facility (ICTF) in Mobile, Alabama. Mr. Andrus supervised the preparation of bid drawings, specifications, and construction cost estimates, as well as the hydraulic modeling required to assess the channel's performance during the 50- and 100-year flow events. The hydraulic modeling effort included a detailed assessment of the design armor stability and scour potential during 50- and 100-year flows, according to FHWA and USACE guidelines. Two-dimensional hydraulic modeling was used to evaluate design shear stresses along the channel bed and side slopes and to confirm all design components of the drainage channel.

St. John the Baptist Parish Canal Clearing, St. John the Baptist Parish, LA

Principal-in-Charge, Mr. Andrus served as technical advisor and participated in client coordination and negotiations Due to storm debris causing drainage issues. Royal was contracted to prepare and secure a Coastal Use Permit (CUP) and perform design engineering services for the clearing and snagging of the debris in approximately 21 canals located throughout St. John the Baptist Parish. Mr. Andrus provided guidance during project scoping, estimating, and all design review milestones.

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:

City of New Orleans Department of Public Works FEMA Roadway Restoration Program, New Orleans, LA
 Marc Campbell
 1300 Perdido St # 6W03 New Orleans, LA 70112
 504-202-2441 / mcampbell@nola.gov

Nature of Firm's Responsibility:

Since 2016, Royal has provided construction management, quality assurance, resident inspection, and project control services for the City of New Orleans Department of Public Works (DPW) for a \$2.3 billion large-scale roadway, **water, sewer, and drainage program** funded primarily by the Federal Emergency Management Agency (FEMA), the Joint Infrastructure Program (JIRR) and other agencies to restore and replace infrastructure damaged during Hurricane Katrina.

At the height of the program, Royal managed up to 35 consecutive construction projects valued at a combined \$200 million yearly through a task-order contract. Royal has also managed over \$15 million in contractor payments each month. For this ongoing project, Royal project managers use an adaptable approach, scalable to seamlessly ramp up or down to meet the needs of real-time simultaneous construction projects with the appropriate number of qualified personnel throughout the contract.

Additionally, Royal oversees the construction services performed by multiple contractors under contract directly to the DPW. Royal provides all construction management, data management, reporting, platform deployment, quality assurance, administration, pay applications, and closeout services on behalf of the DPW.

Major projects included:

- Leontine, Valmont, Coliseum, and Chestnut Streets
- Bayou St. John, Fairgrounds, and Seventh Ward Group B Roads
- Filmore South Group B
- Read Blvd East Group B

Construction management deliverables include document control management, statistics reports, construction submittal management, progress reports, daily, weekly, and monthly reports, monthly pay request approvals, invoice management reports, trend/issues management, reports/corrective action, and field quality assurance plans.



Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$2,300,000,000	\$150,000,000

TEC Professional Services Questionnaire

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Polly Lane Extension, Lafayette Parish, LA Lafayette Consolidated Government (LCG), Alison Lognion 705 W University Ave, Lafayette, LA 70506 337.291.8522 / alognion@lafayettela.gov
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Nature of Firm's Responsibility:

Royal provided professional engineering design services for the extension and connection of both existing dead-end streets of Polly Lane to provide connectivity for vehicular and pedestrian traffic across Issac Verot Coulee. The scope of work also included roadway reconstruction and widening of the existing roadway south of Gathright Street to its existing section at Verot School Road and the installation of sidewalks on both sides of the road along the entire length of the project. The approximate length of the new roadway is 1,080 linear feet, and the length of improvements to the existing roadway is 930 linear feet. The roadway extension/ connection consists of a 2-lane asphaltic concrete roadway, concrete sidewalks, **subsurface drainage**, traffic circle, concrete box culvert in Issac Verot Coulee Lateral 7, articulating block matting for scour protection, ADA ramps, and street lighting. **The project also involved the installation of a new 8" water main and water and sewer service line adjustments and relocations.**

Royal's design phase services included topographical and boundary surveying, all preliminary and final plans, preparation of all necessary right-of-way maps/plats and other governmental staking and inspection authorized on an as-needed basis by owner, opinions of probable construction cost, design calculations, utility coordination, site condition assessment and surveying, permitting, and preparation of technical specifications and bid documents. Prior to finalizing and stamping construction plans, Royal produced 95% Advanced Check Prints for review by LCG and relevant utility companies for a final, detailed review of the project.

Construction phase services included pre-construction coordination, contractor submittal review and tracking, shop drawing review and approval, RFI management, on-site progress meetings, construction monitoring, engineering during construction, preliminary and final walk-through, punch list, substantial completion coordination, completion of record drawings and contractor pay request coordination. Royal also provided resident inspection services.



The project's design and construction were divided into several phases to expedite the road's construction and provide access to a newly built apartment complex. Phase 1 of the project was completed in July 2019, and construction of Phase 2 was completed in November 2021.

Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
November 2021	\$351,000	\$117,300

TEC Professional Services Questionnaire

PROJECT NO. 3

Project Name, Location and Owner's contact information:

DOTD OSBR West Metairie Ave Bridge, Jefferson Parish, LA
 Barbara Ostuno, PE
 PO Box 94245, Baton Rouge, LA, 70804
 225.379.1047 / Barbara.ostuno@la.gov

Nature of Firm's Responsibility:

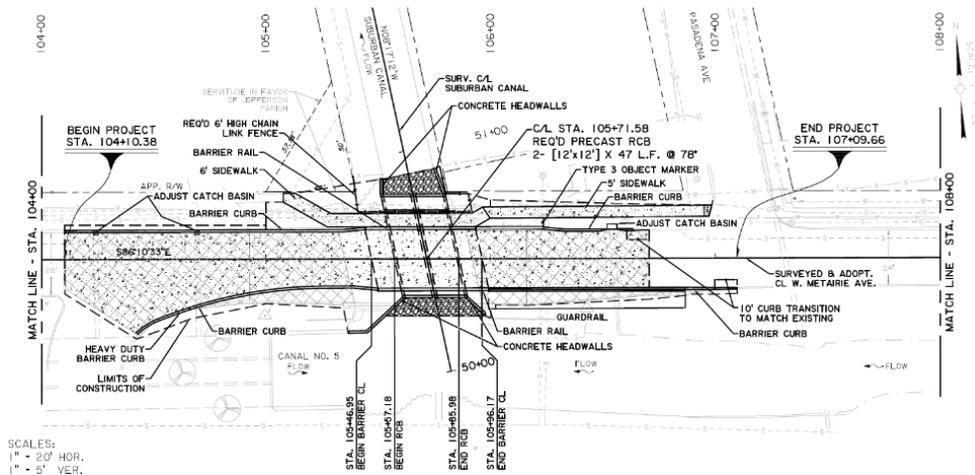
Royal Engineers and Consultants, LLC is providing engineering and related services required to develop plans to replace an existing slab span bridge at West Metairie Avenue over the South Suburban Canal in Jefferson Parish, which is off the State Highway System. The proposed replacement structure is a two (2), 12-ft by 12-ft Reinforced Concrete Box Culverts with concrete headwalls and wingwalls. The proposed structure will tie-in to the existing concrete lined Suburban Canal.

Royal is managing all aspects of design and client relations, overseeing plan production in accordance with the Off-System Highway Bridge (OSBR) Program Guidelines, performing the **hydraulic analysis** and design for all viable alternatives for the bridge replacement in accordance with the DOTD Hydraulics Manual, and coordinating survey efforts. Other services to be provided by Royal include, preliminary plan production, and environmental services including solicitation of views, categorical exclusion clearance, wetland studies, and other information needed for the Environmental Clearance process. Royal oversaw surveying services for the project, with survey deliverables provided in accordance with the OSBR Program Guidelines and the LADOTD Location and Survey Manual.



Existing Bridge

Royal has completed the Plan-In-Hand phase of the project and is currently working towards the next deliverable of 100% Preliminary Plans and Environmental Reports.



Completion Date (Actual or estimated):

Estimated Cost:

Est. May 2025

Entire Project:

\$2,000,000

Work for which Firm was Responsible:

\$77,240

TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	City of New Orleans Street Repair Stuart Consulting Group, Inc. 1018 Central Ave., Ste 200 Metairie, LA 70001 Chris Blazo 504.888.5733/chrisb@stuartconsultinggroup.com	
<p>Nature of Firm's Responsibility: Royal was subcontracted by Stuart Consulting Group, Inc. (SCG) to provide Engineering Design and Construction Administration Services for the City of New Orleans for roadway enhancement and full reconstruction of streets and utilities in a portion of the Uptown neighborhood of New Orleans, Louisiana.</p> <p>The project area includes Camp Street (from Valmont St. to Jefferson Ave.), Leontine Street (from Magazine St. to Prytania St.), Valmont Street (from Magazine St. to Prytania St.), Coliseum Street (from Valmont St. to Leontine St.), and Chestnut Street (from Valmont St. to Jefferson Ave.). Royal's scope of services on the project includes mainline stormwater drainage design, potable water line replacement design, and sanitary sewer line replacement design, all in accordance with New Orleans Department of Public Works and New Orleans Sewerage and Water Board requirements.</p> <p>Royal's Engineering Design services included performing drainage analyses in accordance with City of New Orleans and DOTD requirements, determining proposed alignments and elevations of proposed sewer and water lines in compliance with required clearances with other utilities, preparing AutoCAD drawings for Preliminary and Final Plans, providing quantity takeoffs for cost estimating, and attendance at the design kickoff meeting, progress meetings, and Plan-in-Hand meeting.</p> <p>Completion of the project design plans required close coordination and teamwork with the prime consultant and the City of New Orleans to ensure the proposed subsurface infrastructure designs agree with the proposed reconstructed roadway elevations and design sections and can be tied into the existing subsurface infrastructure.</p>		
Estimated Cost:		
Completion Date (Actual or estimated):	Entire Project:	Work for which Firm was Responsible:
October 2020	\$1,850,000	\$185,000



TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	DPW Bond-Funded Projects New Orleans, Louisiana City of New Orleans Department of Public Works Josh Hartley, P.E. 1300 Perdido St # 6W03 New Orleans, LA 70112 504.658.8000/jwhartley@nola.gov	
Nature of Firm's Responsibility: Royal was contracted by the City of New Orleans Department of Public Works (DPW) to provide Construction Management and Resident Inspection Services for the bond-funded roadway program which includes associated subsurface drainage, sewerage, and water repairs . Construction services were performed by multiple contractors under contract by DPW and overseen by Royal.		
Royal was responsible for providing identifying project limits as requested by DPW. Royal would receive neighborhoods in which the department of public works determined to perform repairs and then define project limits. Our resident inspectors performed field measurements to determine work order limits and scopes. Royal then issued and managed work orders in conjunction with DPW.		
Additionally, Royal oversaw the construction services performed by multiple contractors under contract directly to the DPW. Royal provides all construction management, data management, reporting, platform deployment, quality assurance, administration, pay applications, and closeout services on behalf of the DPW.		
Major projects included: <ul style="list-style-type: none"> • Elysian Fields ADA and Overlay • West Bank Roads • Behrman ave • Multi-use path 		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2022	\$49,000,000	\$1,700,000

TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Iberia Parish Water Control Structures at Peebles Coulee, Rodere Canal, Jefferson Canal, Little Valley Bayou, Rutten Rill Road Canal, and George Lancon Canal, Iberia Parish, LA 300 Iberia St., #400, New Iberia, LA 70560 Iberia Parish Government, Michael Broussard 337.492.5412 / mbroussard@iberiagov.net	
<p>Nature of Firm's Responsibility: Six canals within Iberia Parish, Peebles Coulee, Rodere Canal, Jefferson Canal, Little Valley Bayou, Rutten Rill Road Canal, and George Lancon Canal experience high tide and rainfall flooding events.</p> <p>Iberia Parish Government contracted Royal to design water control structures near the downstream terminations of these canals to combat high tide events and, by doing so, re-introducing rainfall runoff storage capacity within the canals. These structures were previously identified in the 2016 Iberia Parish Levee, Hurricane, and Conservation District Coastal Protection Master Plan as part of a larger levee system.</p> <p>Royal, acting as the prime designer, assessed the site via in-field data collection, hydrologic and hydraulic modeling of the watershed area and drainage system, selection, design, and permitting of the water control structures, construction management, and general project management.</p> <p>Royal has directed the collection of topographic, bathymetric, and magnetometer surveys and the collection of soil borings within the project area. From these surveys, as well as publicly available tide data, Royal then developed HEC-HMS hydrologic and HEC-RAS hydraulic numerical computer models to assess multiple combinations of tide and rainfall scenarios. This effort culminated in preparing a final modeling report, summarizing all model inputs, assumptions, results, and discussions.</p> <p>In addition to this HEC-RAS modeling effort, Royal also led a modeling effort to identify any potential downstream impacts imparted by the water control structures. Via a regional MIKE21 model, Royal was able to affirm that no adverse impacts were expected following the construction of the water control structures.</p> <div style="display: flex; align-items: flex-start;"> <div style="width: 30%; text-align: center;">  <p style="font-size: small; color: red; margin-top: 5px;">Peebles Coulee Control Structure</p> </div> <div style="width: 70%; padding-left: 10px;"> <p>Following these modeling efforts, Royal prepared preliminary and final designs of each water control structure, bearing in mind owner and stakeholder considerations such as cost and project duration. Royal then prepared probable opinions of construction cost and led permitting efforts, conversing with both USACE and LDNR-OCM. Royal has assisted the Iberia Parish Government in discussions with landowners and project stakeholders throughout the design process.</p> <p>Royal prepared final bid packages, including plans and specifications, and led all bid phase services for the Peebles Coulee project. Royal is providing construction management and resident inspection services for this project and Jefferson Canal-North and preparing bid packages for the Jefferson Canal-South and Rodere Canal projects. The Little Valley Bayou, Rutten Rill Road Canal, and George Lancon Canal projects are in the preliminary design phase</p> </div> </div>		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Estimated 2025	\$23,000,000	\$1,800,000

TEC Professional Services Questionnaire

PROJECT NO. 7

<p>Project Name, Location and Owner's contact information:</p>	<p>East Jefferson Levee District (EJLD) – Safehouse and Consolidated Facilities East Jefferson Levee District/Sizeler Thompson Brown Architects Thomas Brown (504) 523-6472/kdaigle@sizeler.com</p>	
<p>Nature of Firm's Responsibility:</p> <p>The East Jefferson Levee District set out to create a consolidated facility to house their three different operations: main office, police station, and levee maintenance. The Levee District developed the 8-acre site in Kenner, Louisiana to house all of their facilities that included four attached buildings and over 100,000 square feet of pavement. The consolidate facilities included a 9,700 SF vehicle maintenance building, 3,700 SF a maintenance office, a 9,000 SF police station, and 4,600 SF main administrative office. The site also included a vehicle wash facility, a gas station, gas tanks, and a stormwater retentions system.</p> <p>Royal provided complete civil and structural engineering services for the project that included construction drawings and construction administration. The structural systems included structural steel, steel bar joists, CMU block, Pre-engineered metal buildings, structural slabs, grade beams, pile caps and treated timber piles. The civil design included concrete pavement design, permeable pavement design, site structures, stormwater management design and utilities design.</p> <p>The architectural design presented four structurally independent foundations and superstructures with shared pile caps when they meet. The four buildings are also tied together with adjoining and intersecting exterior walls to create a completely connected series of separate building structures.</p> <p>The civil team worked with the local stormwater management requirements to design a stormwater drainage system that directed all runoff to two large retention ponds at the back of the site. The design also included permeable aggregate paving in parking and laydown areas to reduce stormwater runoff.</p> <p>During construction the efficient structural design went up quickly without any delays or change orders. The overall construction was a success and the East Jefferson Levee District was very satisfied with the design and construction of their new facility.</p>	 	
<p>Completion Date (Actual or estimated):</p>	<p>Estimated Cost:</p>	
<p>2019</p>	<p>Entire Project:</p> <p>\$15,000,000</p>	<p>Work for which Firm was Responsible:</p> <p>\$225,000</p>

TEC Professional Services Questionnaire

PROJECT NO. 8

Project Name, Location and Owner's contact information:	City of New Orleans Department of Public Works Emergency Catch Basin Cleaning and Repair Program Josh Hartley, P.E. – DPW Senior Engineer 1300 Perdido Street – Suite 6W03 New Orleans Louisiana 70112 / 504-658-8042// jwhartley@nola.gov
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<p>Nature of Firm's Responsibility: Royal performed Construction Administration and Management Services for Emergency Catch Basin Cleaning and Repairs being conducted by the City of New Orleans Department of Public Works (DPW). The CNO storm drainage system contains approximately 65,000 catch basins and 1,000,000 linear feet of storm drain laterals varying in type and size. The system needed significant cleaning and repairs and the urgency for these cleaning and repairs was elevated due to the flooding of August 2017. DPW identified funding and resources for emergency cleaning and repairs for approximately 15,000 catch basins and 225,000 linear feet of adjacent laterals. Construction services were performed by multiple contractors under contract by DPW and overseen by Royal.</p> <p>Royal provided all construction management, data management, reporting, platform deployment, quality assurance, administration, pay applications and closeout services. Staff included on-site and back-office support personnel including qualified Construction Managers and Resident Inspectors.</p> <p>Resident Inspection services included resident construction inspection and oversight. Resident inspection was required at all locations under construction and at all times the contractor was working on critical work items (i.e. pay items, inspect and appropriately track eligible work, ensure work did not adversely affect adjacent areas and/or property, etc.).</p> <p>The City of New Orleans Department of Public Works received an excellent review of its Emergency Catch Basin Cleaning Project by the Office of Inspector General.</p>	
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Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2018	\$15,000,000	\$4,282,978

TEC Professional Services Questionnaire

PROJECT NO. 9

Project Name, Location and Owner's contact information:	S&WB Waterline Replacement Program New Orleans Sewerage and Water Board 625 Saint Joseph Street New Orleans, LA 70165 Patrick Taylor 504.885.0652/ dtaylor2@swbno.org	
Nature of Firm's Responsibility:	<p>Royal provided design engineering, bid, and construction management services for the Sewerage and Water Board of New Orleans (S&WB) 's Waterline Rehabilitation Program. Due to the extensive area covered, the S&WB divided this project into multiple contracts. Royal was a prime contractor on one contract and the primary subcontractor on two other contracts.</p> <p>The general purpose of the program was to replace the waterlines on the east bank of New Orleans that were damaged by flooding caused by Hurricane Katrina. The program was one of the most coordination-specific programs in the city's history, with the required coordination of several key federal, state, and municipal agencies. The program depended heavily upon the coordination between New Orleans Department of Public Works Road restoration crews, and the S&WB's waterline replacement contractors.</p> <p>Royal acted as a representative of the S&WB for all coordination efforts related to the specific regions for which Royal was responsible. Royal performed design engineering and construction management, including oversight of waterline installation, disinfection, field inspection, responses to RFIs, shop drawing reviews, quantity verification, review and approval of contractor pay applications, public notification, and stakeholder meetings and coordination.</p> <p>Five projects were assigned, involving design of 33,000 lf of 8" - 24" pipe replacements feeding approximately 900 houses in Little Woods, Broadmoor, Holy Cross, Holly Grove, and Gert Town Subdivisions.</p>	
		
		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2024	\$5,500,000	\$400,000

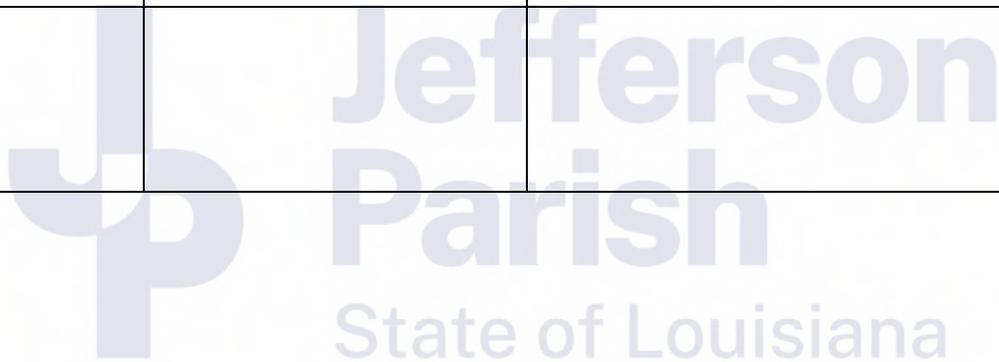
TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Harvey Boulevard Drainage Analysis, Harvey, LA Scandurro & Layrisson. L.L.C. / Timothy Scandurro / tim@scanlayr.com	
<p>Nature of Firm's Responsibility: The Harvey Boulevard Extension Project that improved and extended Harvey Boulevard from Wall Boulevard to Engineers Road was designed in 2008 with construction completed in 2010. The section of this project that runs from Bayou Barataria to Engineers Road bisects the property of Berkley Properties, LLC. The way this section of the Harvey Boulevard Extension Project was designed and constructed created a negative condition on the Property, causing drainage and access issues.</p> <p>Royal conducted a site investigation, data analysis, and engineering services to determine the cause of the negative site conditions and develop corrective action measures.</p> <p><u>Site Investigation.</u> For the site investigation, Royal conducted an existing site condition assessment and survey to establish condition baseline. Geospatial data and as-built construction data were gathered to support analysis and design activities. Royal also coordinated with all stakeholders to determine the cause of negative site conditions.</p> <p><u>Data Analysis Phase.</u> Royal analyzed pre- and post-construction aerial photography to further identify the cause of conditions. In addition, Royal performed an overall analysis to determine the cause of the negative conditions by using the data collected during the site investigation phase. Royal prepared a stormwater model, generated quantity estimates, and gathered cost data for recommended improvements. Royal also prepared a drainage analysis report summarizing findings of the site analysis, descriptions and costs of proposed alternative solutions, and recommendations for the solution to be implemented.</p> <p><u>Design Phase.</u> Royal prepared preliminary and final plans; preliminary and final opinions of probable costs; technical specifications and performed design calculations and modeling.</p>		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2012	\$15,000	\$15,000

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. N/A		
2. N/A		
3. N/A		
4. N/A		



TEC Professional Services Questionnaire

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

APPROACH

Founded in 2005, Royal Engineers and Consultants, LLC (Royal) is a New Orleans based engineering and consulting firm specializing in Civil Engineering, Construction Management, Project Management, Coastal Services, Disaster Recovery, Architecture, and Digital Transformation Services. Our experience includes managing various project types from initial conception through final construction and closeout. Royal believes in providing high-quality service with honesty and integrity and seeks opportunities that enhance the communities where we work and live through improvements in infrastructure and community outreach programs.

Royal has developed an organized and systematic approach to managing complex projects and executing them successfully. We are well known for over-delivering services within budget, as well as allotted time frames while eliciting minimal disruption to the surrounding public. Our modern approach to business, backed by our keen attention to detail and personal approach to every job, is what sets Royal apart.

Royal is 100% locally owned and headquartered in New Orleans. We have delivered over \$500 million in design and construction management projects in the New Orleans area since 2005 while utilizing unique approaches to cutting edge technology. The Royal Team can and will deliver all task orders issued by the Parish under this contract, on schedule, and within budget.

Royal is dedicated to providing exceptional service, from the initial stages of project conception through project completion and closeout. A team of highly capable professionals, well acquainted with the technical and managerial demands of construction projects, provides invaluable support to both the client and contractor throughout the project's duration. Additionally, Royal offers flexibility with a wide variety of project delivery methods, allowing us to serve clients with a diverse range of project sizes and scopes.

The foundation of our exceptional service delivery is built on two items:

1. OUR PEOPLE
2. OUR PROCESS

Our people have extensive education and experience in delivering quality service on Jefferson parish projects. Our people are the key driver to project success, and they are responsible for the implementation of our process.

The Royal team is seasoned in design, engineering, and construction administration services with experience spanning a variety of drainage, flood control and sewer projects.

Our organization starts with experienced leadership. Our highly qualified team will be led by Royal President Michael Pugh, PE who will serve as Principal with support from Katherine Foreman, PE serving as the Project Manager. Additionally, our team is supported by a group of technical subject matter experts (SMEs) charged with quality assurance and control. These SMEs will provide support across the team at the direction of the principal. The Royal Team has ample capacity of qualified staff to ensure continuity of service and ability to surge to meet unexpected project demands.

TEC Professional Services Questionnaire

DEMONSTRATED PERFORMANCE HISTORY

Client Letters of Recommendation

Clients across the State of Louisiana

Royal has an excellent track record of completing tasks on schedule and within budget. We have been contracted by local government agencies (City of New Orleans and Cameron, Iberia, St. John the Baptist and St. Bernard Parishes), state agencies (CPRA, LDWF), federal agencies (USACE New Orleans, Mobile, Galveston Districts, NAVFAC, Department of Veteran's Affairs) and private industry to deliver project design and construction management services. We have established a track record of client satisfaction by going beyond what our clients have requested, recommending the actions necessary, and advising clients when they have asked for services that are not necessary.

✓ COMPETENCE | ✓ RESPONSIVENESS | ✓ WORK QUALITY | ✓ ABILITY TO MEET SCHEDULES & DEADLINES



CAPACITY

The normal workload for Royal is 30-50 concurrent on-going projects, each with project resource capacities easily being met. As such, we offer our assurance that we can and will provide the professional services required by the RFQ immediately upon request.

We have proven the capacity to scale and mobilize sufficient resources. As a small business delivering large-scale work, our resourcing strategy includes weekly measurement (and as needed, adjustment) of project commitments, available resources, and the resulting project task assignments. All project delivery plans target ahead-of-schedule milestones to accommodate resource adaptability needs.

QUALITY ASSURANCE/QUALITY CONTROL

Royal has identified a team of technical subject matter experts (SMEs) charged with quality assurance and control. These SMEs will support the team at the direction of the Principal Engineer/Project Manager.

Additionally, Royal maintains a robust and effective quality control system that ensures both design and construction is performed according to plans and specifications, on time, within a defined budget, and through a safe work environment. This Quality Control Approach recommends a process for identifying and preventing errors, omissions, misinterpretations and technical shortcomings in engineering/scientific documents. Royal understands that the primary function of our quality control efforts is to assure the parish that the completed project meets the quality requirements outlined in the contract.

DBE PERFORMANCE

As a former Disadvantaged Business Enterprise (DBE), we are passionate about the DBE community. We have a solid history of creating opportunities for our DBE partners and have a demonstrated track record of continuously going above and beyond the goals that most programs strive to meet concerning DBE participation. We partner with reputable DBE firms that have a zest for progressive work and are, like us, driven for excellence. Royal has successfully worked with many DBE firms, some of which also have a work history with the Parish.

APPROACH TO SERVICES

At Royal, we believe the first step to a successful design project is to define the scope, schedule, cost, and deliverables. Our project team meets with client to gather their input and define these four items before starting any work. Our goal while performing design engineering, engineering staff augmentation, and construction management services is to ensure the Parish is in a position of proactive response during all phases of each project. Project meetings will be held throughout the design process and Royal will prepare written comments and recommendations to Jefferson Parish concerning

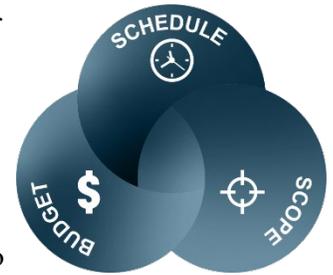
TEC Professional Services Questionnaire

constructability, cost, sequencing, and scheduling.

DESIGN ENGINEERING SERVICES

Upon award of a project the Project Engineer will meet with both the Construction Manager and with parish personnel to review the scope of work and ensure a clear understanding of the project requirements, limitations, and expected outcomes. This meeting will mark the beginning of the Design Phase. Constructability insights will be incorporated into the plan based on this initial scoping review.

The design team will review the scope and plan, and upon agreement on the design approach, the designers will prepare schematic, preliminary, and final design documents. To verify consistency with the agreed-upon scope and client expectations, designs will be reviewed by the project delivery team. The construction team, represented by the principal construction manager and quality control manager will perform a constructability review as part of the preliminary design review, with comments documented in each discipline design file and addressed by documentation before advancing the design for Jefferson Parish to review.



Key drivers to project success

The design package will be submitted to Parish within the approved schedule parameters. Computer-aided design and Drafting (CADD) software, Autodesk Civil 3D, will be utilized to prepare design drawings. The CADD operators will document all modifications to the design drawings to provide an auditable record of design changes.

The design will progress to similar reviews at 90% and Final Design unless otherwise requested by the Parish. During these later reviews, increased emphasis will be placed on the integration of the construction team and client into the design review. The construction team will focus on the project's constructability and look at means and methods of performance. Identification of long-lead items that would impact project delivery schedules will receive particular attention. Concurrently, parish personnel will be engaged for an examination of the project operability to ensure that potential long-term maintenance hardships are not inadvertently built into the project. Before project 90% and Final Design reviews, a peer review or independent technical review will be performed. The review will verify the completeness and accuracy of the technical design, including calculations. The design will be completed upon addressing comments raised at the 90% design review.

Engineering design and technical support depth from the Royal Team includes civil, structural, geotechnical, and architectural. Our engineers routinely provide engineering services during all phases of the project life cycle including preliminary and final design phases.

Our ability to provide engineering support during the pre-construction and construction phase sets our team apart from the traditional A/E delivery model.

CONSTRUCTION ADMINISTRATION SERVICES

Royal has an aggressive construction administration program. We view the specification as a minimum acceptable standard and conduct our construction administration operations in strict conformance with that policy. The Construction Project Manager, Principal Engineer, and Lead Inspector maintain a high profile throughout the contract.

Royal team members routinely perform Construction Submittal Reviews as part of our construction engineering inspection, monitoring, and quality control services. Contractor submittal review includes Constructability, Contract Documents, Cost Estimates, Shop Drawings, Specifications, Pay Applications, Contractor Schedules, Drawing Review and Non-Compliance Reports, etc. Reviews also include analysis of test reports and change order requests in the field. Royal will prepare and present Monthly Progress Reports to the Parish for formal review. Reports address progress vs. baseline in terms of schedule and cost and use earned value management techniques to convey the posture of the project and to forecast its completion. Typically, these reports address current progress, project baseline, project milestones, schedule value index, cost value index, and potential problems/opportunities, but can be tailored to any level to meet the Parish's

TEC Professional Services Questionnaire

needs.

In conjunction with the preparation of conformed documents issued during the Request for Qualifications (RFQ) Phase, Royal will confirm that other prerequisites are met. Royal will verify that correct insurance is in place, review the contractor's quality control plan and safety plans, and determine that the contractor's schedule is acceptable. We will assure conformance with the letter and intent of the design and the contract, while also providing design clarification as necessary. Where submittals require a Parish decision, we will coordinate accordingly.

Submittals, Schedules, and Change Orders are critical parts of the construction management process. Royal is proactive in identifying potential problems and opportunities. If conflicts arise, Royal will take action with the contractor to avoid or mediate impacts through alternative methods within the contract envelope. In all cases, Royal will inform Jefferson Parish of circumstances and possible outcomes and assist in evaluating necessary changes. When changes are required, Royal will prepare written recommendations and justification for all changes.

PRE-CONSTRUCTION PHASE

In the pre-construction phase, Royal assists in advertising the client's project and solicits bids from qualified contractors. We then hold a pre-bid meeting with potential bidders to review the design documents and answer any questions, to ensure accurate, well-informed bids. Our team then evaluates each submission considering the client's needs and total cost before making a final recommendation to the client. Upon conferment of the contract award, Royal has extensive experience in managing the remainder of the pre-construction tasks, from holding the pre-construction meeting to ensuring compliance with all required permits and submittals.

CONSTRUCTION PHASE

Royal acts as a client/contractor liaison throughout the construction phase and coordinates all construction activities. Starting with mobilization, Royal schedules all contracted work and ensures it is completed according to the design specifications and within the project budget. We believe that open communication among all parties is integral to the success of the project. Therefore, we take advantage of regular meetings with the contractor and report progress to the client in real time. We practice a robust system of quality control and ensure that all work is performed in compliance with the applicable codes and industry-standard operating procedures. Part of this process is

overseeing all on-site testing and monitoring, as well as the submission of all relevant results/reports to governing agencies. Should any need for clarification arise, Royal processes the contractor's Request for

Streamlined construction management and resident inspection services with unparalleled transparency.

Information and furnishes a technical interpretation of the design documents. Royal's expertise in adaptive management allows us to swiftly adjust work, time, and scope in the event of unforeseen site conditions. We promptly process change orders and make recommendations to the contractor to minimize any additional costs incurred through project delay. Finally, Royal processes all contractor invoices and provides ample support in arbitrating any disputes or claims.

PROJECT COMPLETION

Upon substantial completion of the project, Royal coordinates the final inspection and oversees any remaining work on punch-list items. We handle the contractor's final transmittals and oversee all demobilization activities. If applicable, Royal assists with equipment startup to ensure that all construction deliverables are fully functional prior to closeout. We process any final change orders, transmit the contractor's Notice of Acceptance, and see to the final payments. In addition to any product warranties associated with the project, Royal mandates a warranty on all contracted and subcontracted work for one year from the date of final acceptance.

Royal maintains/practices a very efficient Quality Control/Quality Assurance system and employs construction managers and inspectors certified through the US Army Corp of Engineers "Construction Quality Management for Contractors." We are highly qualified to provide construction administration and resident inspection for any civil engineering construction project.

TEC Professional Services Questionnaire

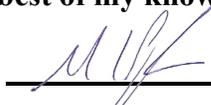
ROYALVUE

Our digital transformation platform, RoyalVUE, serves as a single system of engagement-connecting people and data in real-time and across multiple devices-and serves as a single system of record. RoyalVUE offers clients transparency regarding the status and progress of ongoing work and allows clients to personally log in to get "real-time" status updates on their projects.

Before and after pictures, notes on field observations, and written status can be viewed at anytime from anywhere. Clients can access project information tailored to their request through custom dashboards and reports from both desktop and mobile devices with project information updated in real-time. RoyalVUE also allows us to build in and manage project exceptions, such as rain days or other legitimate delays, which serves as an accurate mediation tool in the event of a dispute. RoyalVUE eliminates a significant amount of the invoice process as accurate invoices are electronically created in the field as the project progresses and closes out.

This platform has proven to be an ultimate value-added benefit to clients at no additional cost. The system can be transferred and used on other types of projects/programs that require a high level of QA/QC oversight and management.

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

Signature:  Print Name: Michael Pugh, PE

Title: President and CEO Date: June 20, 2024

Statement of Qualifications

AFFIDAVIT

STATE OF Louisiana

PARISH/COUNTY OF Orleans

BEFORE ME, the undersigned authority, personally came and appeared: Henry Albert (Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized Executive Vice President of Royal Engineers and Consultants, LLC (Entity), the party who submitted a Statement of Qualifications (SOQ) to SOQ 24-015-Provide Routine Engineering Services for Drainage Projects (Briefly describe the services the SOQ will cover), to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A X Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B _____ there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Affiant further said:

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B X _____ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

Solicitation of Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all elected officials of the Parish of Jefferson, whether still holding office at the time of the affidavit or not, where the elected official, individually, either by **telephone or by personal contact**, solicited a campaign contribution or other monetary consideration from the Entity, including the Entity's officers, directors and owners, and employees owning twenty-five percent (25%) or more of the Entity, during the two-year period immediately preceding the date the affidavit is signed. Further, to the extent known to the Affiant, the date of any such solicitation is included on the attached list.

Choice B X _____ There are **NO** solicitations for campaign contributions which would require disclosure under Choice A of this section.

Affiant further said:

Subcontractor Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Affiant further said that attached is a listing of all subcontractors, excluding full time employees, who may assist in providing professional services for the aforementioned SOQ.

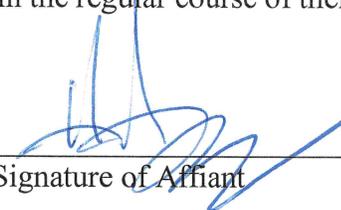
Choice B X_____ There are **NO** subcontractors which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.



Signature of Affiant

Henry Albert, Executive Vice President

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME
ON THE 18TH DAY OF JUNE, 2024.



Notary Public

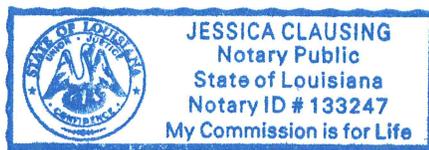
Jessica Clausing

Printed Name of Notary

133247

Notary/Bar Roll Number

My commission expires upon death.



Campaign Contribution Disclosures Attachment

12/2021	Scott Walker Campaign	\$2,000.00
10/2022	Campaign for Dominick Impastato 2022 Sponsor	\$2,500.00

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

Insurer: LOUISIANA WORKERS' COMPENSATION CORPORATION
Insured: ROYAL ENGINEERS & CONSULTANTS LLC

Policy Number 120644-D

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

Blanket Waiver