



Off-System Highway Bridge Program Old Columbia Rd Over Jamieson Creek Contract No. 4400030634



Off-System Highway Bridge
Old Columbia Rd Over
Jamieson Creek
Washington Parish

Contract No. 4400030634
State Project No. H015941.5

Statement of Qualifications

Infinity Engineering Consultants, LLC.

4001 Division Street
Metairie, LA 70002

P: 504.304.0548

F: 504.355.0265

Raoul V. Chauvin, III, P.E.
Principal-in-Charge
rchauvin@infinityec.com

January 16, 2025

Infinity Engineering Consultants, LLC.



Letter of Interest

Louisiana Registered Engineering Firm Number

Infinity Engineering Consultants, LLC.
EF. 0001309

Office Location

4001 Division Street
Metairie, LA 70002
p. (504) 304-0548

Contact Persons



Raoul V. Chauvin, III, P.E.
Principal Partner
rchauvin@infinityec.com



William J. Thomassie, P.E.
Principal Partner
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Nickie Monica
Director of Business Development
nmonica@infinityec.com

January 16, 2024

Department of Transportation & Development
Consultant Contracts Services
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802
DOTDConsultantAds80@la.gov

Re: Contract No. 440003634 Off-System Highway
Bridge Program Old Columbia Rd. Over Jamieson Creek
Washington Parish

With reference to the above stated project, Infinity Engineering Consultants, LLC is pleased to present our statement of qualifications. Upon thoroughly reading the request for qualifications, we believe Infinity's team of engineers and design professionals meet and exceed the necessary qualifications to successfully oversee the Stage 3 preliminary plans for the replacement of an off-system bridge along Old Columbia Road in Franklinton, Louisiana.

Infinity Engineering Consultants is a Metairie, Louisiana based firm, located 67 miles from the bridge site, that provides multi-disciplinary engineering services to both the public and private sectors. As a multi-discipline firm, comprising of civil, structural, mechanical, and electrical engineering, our firm is equipped to oversee the development of the Stage 3 off-system bridge designs from project kick-off through, if called upon, construction administration oversight. Infinity's full-time staff currently includes eleven (11) professional engineers, four (4) engineering interns, three (3) engineering graduates, nine (9) AutoCAD designers, two (2) advanced measurements technicians, and three (3) full-time resident inspectors, as well as a supportive administrative staff.

Across Infinity's 20-year company history, the firm holds extensive experience working with public agencies in the project manager role of prime consultant for infrastructure engineering design. Recently, Infinity has enjoyed a collaborative working relationship with the Louisiana Department of Transportation & Development as we completed initial structural engineering designs for two off-system bridge replacement projects. Currently, Infinity is working alongside Arcadis to provide hydraulic, bridge, and roadway design for the replacement of the Adema Lane bridge in Point a la Hache, LA, as part of the DOTD Off-System Bridge program.

Infinity is reaching the construction completion milestone of several large roadway related projects including Colony Place Street Lighting and West Metairie Ave roadway and canal embankment improvements. Additionally, Infinity has recently ended providing construction administration services for the installation of water and sewer lines in Myrtle Grove, LA., as well as the Empire Louisiana Harbor of Refuge. With the recent completion of several large design and construction projects, Infinity's engineers and professional design team are able to transition to and focus on the Old Columbia Road off-system bridge project.

Infinity is proud of our reputation as being honest, reliable, and capable. As such, we have provided within our approach and methodology section snippets of reference letters that attest to our work ethic. Pertinent resumes and project examples for the entire team are contained in the following DOTD 24-102 form.

Infinity Engineering Consultants, L.L.C. steadfastly confirm the following:

- Infinity Engineering Consultants, L.L.C. is within good standing
- The proposed team meets all of the minimum personnel requirements
 - Raoul V. Chauvin, P.E. and William Thomassie, P.E. are Infinity's principal partners who are registered professional engineers in the State of Louisiana in civil engineering
 - Cindy Gallo, P.E. is a responsible member of the prime consultant team who is currently registered in the state of Louisiana as a professional engineer in civil engineering
 - Ricardo Contreras, P.E. is a responsible member of the Infinity team who is a professional civil engineer, registered in the state of Louisiana, and shall have a minimum of five (5) years of experience in responsible charge of bridge design.
- The firm holds all licenses necessary to legally provide the related services in the State of Louisiana
- The lead professional for each engineering category is a licensed professional in that area with a minimum of 5 years of experience in the category in which they will be the person in responsible charge.
- Infinity Engineering does not hold a record of substandard work
- Infinity Engineering has never engaged in any unethical behavior

Infinity Engineering Consultants, LLC. is a registered DBE firm with the Louisiana Unified Certification Program for Disadvantaged Business Enterprises, the City of New Orleans, and the Regional Transit Authority of New Orleans. Additionally, Infinity Engineering is certified by the Louisiana Department of Economic Development as a Small and Emerging Business Enterprise (SEBD). Whenever possible, Infinity is committed to supporting and working alongside fellow emerging businesses and disadvantaged business enterprises.

The Infinity Team for the Old Columbia Road off-system bridge replacement includes:

- INFINITY ENGINEERING CONSULTANTS, L.L.C.:
Project Management, Civil Engineering, Structural Engineering, Cost Estimating
- QUALITY ENGINEERING & SURVEYING, LLC.
Topographic, Right-of-Way Sketches
- ELOS ENVIRONMENTAL, LLC.
Environmental Services, Wetland Delineation

Documents Enclosed in this SOQ include:

- Letter of Interest
- Infinity Team DOTD 24-102 Form

Closing

Infinity takes pride in the high-profile roadway projects we have ushered from design through construction across the Gulf Coast. We are confident that we have assembled a team of civil/structural engineers, surveying, and environmental professionals capable of overseeing the preliminary design for the replacement of the Old Columbia Road bridge effectively and efficiently. We respectfully request that the LADOTD select Infinity Engineering Consultants, L.L.C. for this important infrastructure project so we can continue to work together to improve our neighboring Louisiana communities. If you have any questions or require additional information, please call me at (504) 304-0548.

By signing this letter, the Respondent certifies that the signatory is authorized to bind the Respondent and certifies the content of this letter.

Sincerely,

A handwritten signature in blue ink that reads "Raoul V. Chauvin III". The signature is fluid and cursive, with the "III" at the end being clearly legible.

Raoul V. Chauvin, III, P.E.

Infinity Engineering Consultants, LLC

(504) 304-0548

rchauvin@infinityec.com

DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

(Revised December 12, 2024)

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

1. Contract Name as shown in the advertisement	OFF-SYSTEM HIGHWAY BRIDGE PROGRAM OLD COLUMBIA RD OVER JAMIESON CREEK WASHINGTON PARISH
2. Contract Number(s) as shown in the advertisement	CONTRACT NO. 4400030634
3. State Project Number(s), if shown in the advertisement	STATE PROJECT NO. H.015941.5
4. Prime consultant name (name must match <u>exactly</u> as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; <u>include screenshot from SOS at the end of Section 20</u>)	Infinity Engineering Consultants, L.L.C.
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0003109
6. Prime consultant mailing address	4001 Division Street Metairie, LA 70002
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	4001 Division Street Metairie, LA 70002
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Raoul V. Chauvin, III, P.E. Principal Partner rchauvin@infinityec.com 504-304-0548
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Raoul V. Chauvin, III, P.E. Principal Partner rchauvin@infinityec.com 504-304-0548

Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.



Signature above shall be the same person listed in Section 9:

1/16/2024

Date:

Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

Firm(s):

Firm(s)' %:

12. Discipline Table:

As indicated in the advertisement, insert a completed table here. The percentages for the prime and sub-consultants must total 100% for each discipline, as well as the overall total percent of the contract.

The **only** disciplines to be used are listed in the drop down in each row (Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic). **Remove rows as needed.**

Discipline(s)	% of Overall Contract	Prime: Infinity Engineering Consultants, L.L.C.	Firm B: Quality Engineering & Surveying, LLC	Firm C: ELOS Environmental, LLC.	Firm D	Firm E	Each Discipline must total to 100%
Bridge	70%	100%					100%
Survey	10%		100%				100%
Right-of-Way	5%		100%				100%
Environmental	15%			100%			100%
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Choose an item.							100%
Choose an item.							100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.							
Percent of Contract	100%	70%	15%	15%			

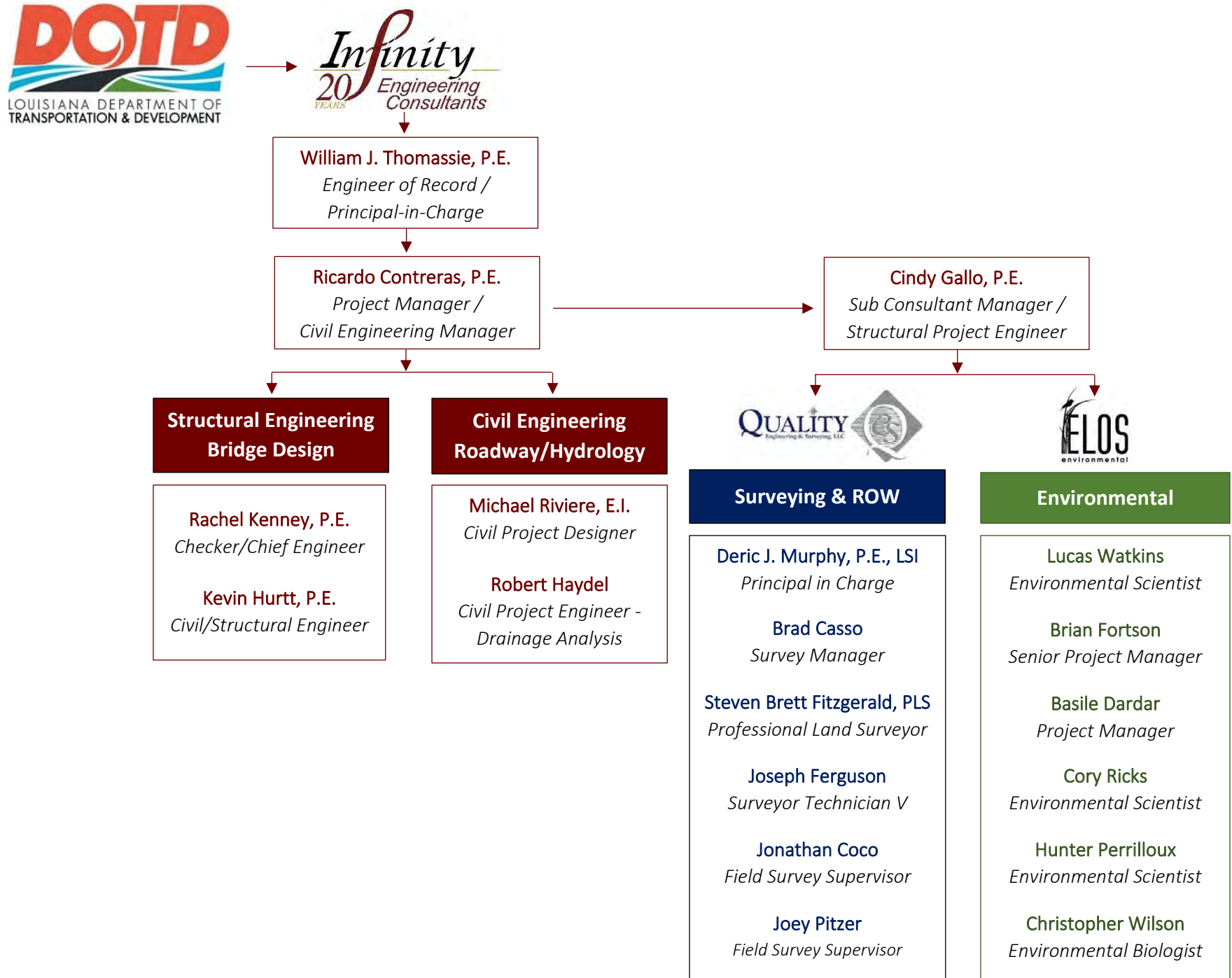
13. Firm Size:

Firm name	DOTD Job Classification	Number of personnel <u>committed to this</u> contract	Total number of personnel available in this DOTD Job Classification (if needed)
Infinity Engineering Consultants, L.L.C.	Administrative	1	5
Infinity Engineering Consultants, L.L.C.	Designer	1	6
Infinity Engineering Consultants, L.L.C.	Drafter	1	3
Infinity Engineering Consultants, L.L.C.	Engineer	4	11
Infinity Engineering Consultants, L.L.C.	Engineer Intern	1	4
Infinity Engineering Consultants, L.L.C.	Principal	1	2
Infinity Engineering Consultants, L.L.C.	Project Office Manager	1	1
Quality Engineering & Surveying, LLC	CADD Technician	1	7
Quality Engineering & Surveying, LLC	Other (CADD Technician)	1	1
Quality Engineering & Surveying, LLC	Other (Survey Supervisor)	1	1
Quality Engineering & Surveying, LLC	Party Chief	1	1
Quality Engineering & Surveying, LLC	Principal	2	3
Quality Engineering & Surveying, LLC	Surveyor	2	3
ELOS Environmental, LLC.	Archaeologist	1	2
ELOS Environmental, LLC.	Biologist/Wetlands	3	5
ELOS Environmental, LLC.	Clerical	2	2
ELOS Environmental, LLC.	Environmental Manager	2	2
ELOS Environmental, LLC.	Environmental Pro	2	2
ELOS Environmental, LLC.	Geologist	1	1

ELOS Environmental, LLC.	GIS Analyst	2	2
ELOS Environmental, LLC.	Historian	1	2
ELOS Environmental, LLC.	Inspector - Lead	1	4
ELOS Environmental, LLC.	Principal	1	2
ELOS Environmental, LLC.	Technician	2	5

(Add rows as needed)

14. Organizational Chart:



15. Minimum Personnel Requirements:

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR; e.g. professional civil engineer should show the discipline of the license as civil if meeting that MPR.

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	William J. Thomassie, P.E.	Infinity Engineering Consultants, L.L.C.	Professional Engineer # 0027421 - Civil	LA	9/30/2025
2	Cindy Gallo, P.E.	Infinity Engineering Consultants, L.L.C.	Professional Engineer # 0043357 - Civil	LA	9/30/2025
3	Ricardo Contreras, P.E.	Infinity Engineering Consultants, L.L.C.	Professional Engineer # 0028533 - Civil	LA	9/30/2025
4	Steven Brett Fitzgerald, PLS	Quality Engineering & Surveying, LLC.	Professional Land Surveyor #0005018	LA	3/31/2026
5	Lucas Watkins	ELOS Environmental, LLC.	N/A	N/A	N/A

(Add rows as needed)

16. Staff Experience:

Firm employed by Infinity Engineering Consultants, L.L.C.			
Name	William J. Thomassie, P.E.		Years of relevant experience with this employer
Title	Principal		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Bachelor of Science / 1992 / Civil Engineering	
Active registration number / state / expiration date		No. 27421 / LA / 9/30/2025	
Year registered	1997	Discipline	Civil/Structural Engineering
Contract role(s) / brief description of responsibilities		Engineer of Record/Principal-in-Charge Meets MPR. 1 - As Principal Partner of Infinity Engineering Consultants, Mr. Thomassie, P.E. is one of the registered supervising professionals for the firm and is responsible for the management of all engineering production. Mr. Thomassie's guidance and shaping of designs, along with construction support, has enabled project completion on schedule and with minimal adverse impact on commerce in the area.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
4/2020 – 3/2022	Cornerstone Dock Damage Evaluation and Design – Principal for the evaluation of damage caused by a ship collision with a dock and bridge on Cornerstone's site. Oversaw the collection of advanced measurements, including drone imagery, to assess the damages. Upon the completion of the surveying, a comprehensive analysis report was provided to Cornerstone, including cost estimation for repairs. Additionally, overseeing the completion of designs to repair dock and replacement of vehicular bridge .		
4/2014 – 9/2017	City of New Orleans Joe Brown Park Bridge Replacement – Principal engineer for the design of the complete replacement of the Joe Brown Park Bridge . Infinity's condition inspection and bridge rating previously deemed the bridge needed replacement. The new bridge design also included a load rating.		
10/2010 – 9/2012	Entergy Evergreen Bridges – Principal engineer for the design of two (2) vehicular bridges to replace aging timber bridges on the approach to Entergy's Evergreen Substation. Provided new bridge designs for steel reinforced piles, decking and reinforced retaining wall/abutment. Designs also included a load rating.		
7/2006 – 7/2011	Ollie Drainage Pumping Station Expansion and Vehicular Bridge Design – Principal for the Ollie Drainage District capacity evaluation and design project. Project included the evaluation of runoff characteristics for a 3,000-acre basin and the evaluation of the adequacy of an existing pumping station with 5 pumps. Project Manager for the design of the 600 cfs drainage stormwater pump station addition (\$16,200,000 total construction cost). Responsible for overall project coordination and design. Supervised all civil and structural designs including deep foundations, concrete structures, steel building structures, dredging, vehicular bridges , roads, and canals.		
4/2014 – 2/2015	City of New Orleans Bridge Load Ratings – Principal engineer for the structural analyses and load ratings for fourteen (14) off-system bridges around the City of New Orleans. The analyses determined that the majority of the bridges met the AASHTO load rating requirements, and proscribed remedial repairs or replacement for those that did not pass inspection.		
3/2012 – 3/2012	Scarsdale Bridge Rating – Principal engineer for the engineering analysis and load rating of two bridges at the Plaquemines Parish Scarsdale Pumping Station. The inspection and analysis of the two (2) 25' wide x 150' timber pile foundation bridges with precast pre-stressed concrete decks were necessitated by a load rating for dump trucks using the site.		
6/2004 – 12/2004	City of New Orleans Wisner Bridge Inspection – Principal in charge for inspecting, evaluating, and reporting deficiencies in the 3/8-mile-long Wisner Bridge over I-610. The inspection was completed in accordance with LaDOTD requirements and a plan for rehabilitation was prepared.		



Firm employed by Infinity Engineering Consultants, L.L.C.			
Name	Ricardo Contreras, P.E.		Years of relevant experience with this employer
Title	Civil/Structural Engineering Manager		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Bachelor of Science / 1994 / Civil Engineering	
Active registration number / state / expiration date		No. 28533 / LA / 9/30/2025	
Year registered	1999	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Project Manager and Roadway Design Meets MPR. 3 - With over 29 years of civil engineering and project management experience, Ricardo Contreras, P.E. brings the following relevant specialties to this project: roadway design, infrastructure assessment, multi-model complete street design, and roadway drainage design.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
7/2019 – 1/2024	<u>Magnolia Street Bridge Replacement</u> – Civil Engineer responsible for site civil design and overall project development for the drainage improvements and replacement of the existing bridge on South Magnolia Street. The design tasks included the specification of an aluminum box culvert, the design of asphalt roadway replacement, and civil site design		
5/2021 – 8/2023	<u>Savanne Road DOTD Off-System Bridge Replacement</u> – Provided technical assistance for the replacement of an off-system bridge along Savanne Road crossing over Hanson Canal. Oversaw all structural/civil engineering designs for the bridge replacement as well as coordinated with land surveying and environmental service sub consultants.		
3/2020 – 1/2023	<u>Alvin Calender Airfield Vehicular Bridge</u> – Provided technical assistance for the establishment of a new vehicular bridge that will span across a drainage canal that parallels Barrier Road. Upon completion, this bridge will be approximately 50 feet wide by 160 feet in length and will include approach spans at both ends. Designs call for the bridge to uniformly elevated to span the canal and align with target grades, which is slightly higher than existing ground surfaces.		
12/2015 – 9/2017	<u>Joe Brown Park Bridge Rehabilitation</u> – Responsible for construction management of project. Duties included overseeing and managing construction progress and schedules, submittal reviews, review and approval of invoices, and project closeout.		
8/2001 – 10/2005	<u>LaDOTD Peters Road On and Off Ramps For the Westbank Expressway</u> – Responsible for stage “0” feasibility study, prepared preliminary plans for new on and off ramps for Peters Road and the Harvey tunnel traffic, including relocation of existing on and off ramps to the Westbank Expressway and incidental roadway realignment.		
2/2021 – 9/2024	<u>Shintech Water Intake Platform and Vehicular Bridge</u> – Provided technical assistance for the design of a new water intake platform at plant. The platform consists of a multi-disciplinary design with coordination between Infinity’s civil, structural, mechanical, and electrical teams. Responsible for the design of a heavy equipment concrete bridge to connect from the levee to the new platform. Additionally, project called for designs of the roadway for vehicular levee crossing.		
11/2016 – 2/2025(E)	<u>West Metairie Avenue Rehabilitation and Canal Stabilization</u> – Roadway and drainage improvements work included the removal and replacement of concrete paving panels and the repair and adjustment of select drainage outfalls, and implementation of stabilization measures to the embankments of the canal. Responsible for overall design, preparation of plans and specifications, provided cost estimation and coordinated all aspects of the project.		
1/2016 – 10/2018	<u>Canal Street/City Park Avenue Intersection Improvements</u> – Assisted with verification of project quantities during design and with construction administration. The designs of the transportation hub improvements called for roadway/sidewalk replacement , underground utility relocation design, terminal mechanical and lighting protection systems, and streetcar track foundations.		



Firm employed by Infinity Engineering Consultants, L.L.C.			
Name	Rachel Kenney, P.E.		Years of relevant experience with this employer
Title	Chief Engineer		13
		Years of relevant experience with other employer(s)	7
Degree(s) / Years / Specialization		Bachelor of Science / 2001 / Civil Engineering	
Active registration number / state / expiration date		No. 37666 / Louisiana / 09/30/2025	
Year registered	2013	Discipline	Civil/Structural Engineering
Contract role(s) / brief description of responsibilities		Senior Bridge Designer & Checker As Infinity's Chief Engineer Ms. Kenney is responsible for overseeing all engineering projects for the firm. Ms. Kenney brings over twenty years of structural design and civil design engineering experience to the role. Throughout her career, Ms. Kenny has used her expertise to inspect and design a wide variety of structural projects, including bridges, municipality buildings, pumping stations, oil and gas facilities, and wastewater treatment plants.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
1/2016 – 1/2018	Omega Refining Barge Dock and Vehicular Bridge – Project Engineer for the design engineering for a new barge loading dock on the Mississippi. Project included the structural design of the steel dock framing and decking, the 225' pile supported, steel vehicular bridge , a hydraulic crane, 500' of piperack, and product piping from the facility to the dock, and electrical switchgear and lighting.		
2/2016 – 3/2021	IMTT Geismar Dock 4 – Managed a team of Structural, Mechanical and Electrical engineers to complete the design of a new ship and barge dock, including a new bridge connecting the new and existing dock . Performed structural design, of 60"-72" diameter ship and barge breasting monopiles, a 40'x80' steel platform supporting a 40'x20'x100' tall steel framed hose tower, 760' of piperack, and associated walkways, stairs, and auxiliary structures.		
6/2012 – 8/2012	I-10 Overpass Inspection – Performed the traffic control and the pre and post inspection of Interstate 10 overpass and ramps in the vicinity of the Pallas Hotel Implosion. Reviewed LADOTD reports, established bent numbering in the field, performed pre and post inspections of deck surfaces and structures.		
6/2004 – 12/2004	City of New Orleans Wisner Bridge Inspection – Responsible for inspecting, evaluating, and reporting deficiencies in the 3/8-mile-long Wisner Bridge over I-610. The inspection was completed in accordance with LaDOTD requirements and a plan for rehabilitation was prepared.		
3/2019 – 2/2024	RTA Canal Street Ferry Terminal CMAR – Managed a multidisciplinary team of designers working with the Owner's Contractor to determine the most cost-effective design that would satisfy project and grant requirements. The project included: a steel pile supported wharf with concrete beams and hollow core concrete panels; a timber pile supported, steel framed terminal building; two steel framed stair/elevator towers connected by a prefabricated steel truss bridge spanning (2) railroad tracks ; prefabricated 100' gangways; design of a half grand union with catenary system; captive barge dock; and temporary berth with steel platform, and temporary captive barge dock.		
3/2018 – 5/2023	Port Ship Service New Dock Design – Managed project team to design relocated dock facility. The new dock design included a USACE levee crossing leading to an elevated platform as well as a 30' vehicular bridge with slope stabilization to the bank . Capture piles were provided for the relocated barge dock. Oversaw all pre-construction analysis and provided cost estimates.		
1/2010 – 1/2014	Port of Lake Charles Bulk Terminal 1 Ship Unloader – Project engineer for the performance specification of an 800 ton/hr bulk handling ship unloader on the existing BT-1 dock at the Port of Lake Charles on the Calcasieu River in Sulphur, LA. Project responsibilities included detailed structural inspection and analysis of the 1,860' dock platform to determine adequacy for accommodating the new unloader.		



Firm employed by Infinity Engineering Consultants, L.L.C.			
Name	Cindy Gallo, P.E.		Years of relevant experience with this employer
Title	Delivery Manager/Structural Engineer		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Bachelor of Science / 2015 / Civil Engineering	
Active registration number / state / expiration date		No. 43357 / LA / 09/30/2025	
Year registered	2019	Discipline	Civil/Structural Engineering
Contract role(s) / brief description of responsibilities		Project Delivery Manager/Structural Engineer Meets MPR. 2 - As Project Delivery Manager, Ms. Gallo leads Infinity's project management discipline, focusing on effective project completion and exceptional client satisfaction. Ms. Gallo brings over eight years of experience in project management and civil/structural and marine engineering design to this client-focused role., Ms. Gallo's structural engineering expertise has been lent to a diverse set of project types including maritime, bridge, and facility designs.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
2/2018 – 10/2018	<u>City of New Orleans Joe Brown Park Bridge Rehabilitation</u> – Project Manager responsible for organizing the preparation and delivery of a construction drawing and specification package, coordinating with the Owner and the Department of Parks and Parkways, and scheduling all design progress meetings. She was on the structural team that prepared the design for the new bridge and foundation . This project consisted of civil, structural, and electrical design for the removal and replacement of an existing vehicular bridge deemed to be in poor condition.		
7/2019 – 1/2024	<u>Magnolia Street Bridge Replacement and Roadway Improvements</u> – Project manager for the detailed design for drainage improvements and the replacement of the existing bridge on South Magnolia Street. Project included coordinating civil and structural designs for the new aluminum box culvert and foundation , site grading, a new asphalt roadway , sidewalk and driveway repairs, and underground utility relocations.		
2/2021 – 9/2024	<u>Shintech Water Intake Platform and Vehicular Bridge</u> – Project Manager of the engineering team responsible for the civil, structural, mechanical, electrical and instrumentation designs of a new river water intake platform. Project components included performing topographic and hydrographic surveys, as well as the design of the concrete intake platform and vehicular access bridge supported by steel pilings/substructures , levee crossing and modifications, piping layouts, pipe support design, hydraulic analyses, and power and instrumentation as required for the platform.		
2/2015 – 10/2017	<u>City of New Orleans Bridge Inspections and Load Ratings</u> – Project manager of a team responsible for performing field inspections and load rating calculations on a total of twelve bridges . Performed superstructure and substructure calculations using the AASHTOWARE Bridge Rating Software (BrR, V6.8), MOVLOADS, and RAM Elements in combination with hand calculations. Assembled the final load rating reports to include the inspection forms, photos, and calculations for submittal.		
3/2019 – 8/2017	<u>IMTT Dock 8 Levee Ramp</u> – Project manager responsible for leading a team of civil and structural engineers to provide construction drawings and specifications associated with the installation of new access walkways at Docks 8, 11, and 14. Additionally, responsible for preparing a permitting package and requesting reviews from the Army Corp of Engineers (Sections 10, 404, and 408), the Coastal Protection and Restoration Authority, and the Pontchartrain Levee District on specific design requirements at the project location.		
3/2015 – 3/2021	<u>IMTT New Dock #4 Design</u> – Responsible for providing designs for a new marine dock at IMTT's Geismar terminal. Performed engineering calculations and participated in the design of the platform and hose tower, as well as modeled the monopile foundations, pipe rack, dock structure , and hose tower using LAT Pile and/or Ram Elements. Served as project manager during bidding and construction administration.		



Firm employed by Infinity Engineering Consultants, L.L.C.			
Name	Kevin Hurtt, P.E.		Years of relevant experience with this employer
Title	Civil Project Engineer		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Bachelor of Science / 2019 / Civil Engineering	
Active registration number / state / expiration date		No. 0048668 / LA / 09/30/2026	
Year registered	2024	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities		Project Structural Engineer – Bridge Design Mr. Hurtt holds five years of experience of analysis, design, and inspection of civil related projects. When working on a design under the direction of Infinity's engineer of record, Mr. Hurtt seeks to collaborate closely with clients to understand their needs in order to implement the project goals effectively and efficiently. Mr. Hurtt has experience coordinating with various disciplines, including electrical and mechanical, to ensure all phases of a project fit together seamlessly.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
5/2021 – 8/2023	Savanne Road Off-System Bridge Replacement – Under the direction of Infinity's engineer of record, served as project manager for the replacement of the Savanne Road off-system bridge crossing over Hanson Canal. Provided structural/civil engineering designs for the bridge replacement as well as project management responsibilities during final design phase.		
4/2020 – 3/2022	Cornerstone Ship Berth and Vehicular Bridge Design Repairs – Assisted in repair of Cornerstone's berth on the Mississippi after an alision that destroyed a caisson supporting a hose tower and damaged a vehicle access bridge. Responsibilities included designing a control room support structure cantilevered off an existing structure and a vehicle bridge to replace the damaged portion . The project required close coordination with mechanical and electrical engineering disciplines. Design was completed using Bentley's RAM Elements software, Tension Technology International's Optimoor software, and traditional hand calculations.		
6/2021 – 8/2023	North River Rd Bridge Replacement – Under the direction of Infinity's engineer of record, acted as project manager for the civil/structural team that designed a replacement bridge for the LADOTD off system bridge program. This included coordination with state and local officials as well as management of an environmental subcontractor. For the preliminary plans of the project, a hydraulic design was performed to the specified DOTD Hydraulics manual to ascertain all viable drainage design options for the bridge.		
3/2020 – 2/2023	Cornerstone Ship Berth Repairs and Vehicular Bridge – Under the direction of Infinity's engineer of record, assisted in the repair design of Cornerstone's berth on the Mississippi after an alision that destroyed a caisson supporting a hose tower and damaged a vehicle access bridge. Tasks included designing a control room support structure cantilevered off of an existing structure and a vehicle bridge to replace the damaged portion . The project required close coordination with mechanical and electrical engineering disciplines. Design was completed using Bentley's RAM Elements software, Tension Technology International's Optimoor software, and traditional hand calculations.		
2/2021 – 3/2024	Shintech Water Intake Platform and Vehicular Bridge – Under the direction of Infinity's engineer of record, designed a vehicular bridge with attached pipe rack to access a proposed water intake platform in the Mississippi river. The bridge was designed to accommodate a 41,000 lb. crane with a 30,000 lb. load or HL-93 loading. The pipe rack was designed to support a thirty-inch water line, miscellaneous smaller pipes, and three cable trays. The design was completed using RISA-3D software.		
7/2021 – Ongoing	Terry Parkway Roadway Repairs – Under the direction of Infinity's engineer of record, assessed existing road surface conditions and designed replacement of damaged panels . Assisted in designing new grading plan for intersection of Terry Parkway and LA23. Coordinated with LADOTD during development.		

Firm employed by Infinity Engineering Consultants, L.L.C.			
Name	Michael Riviere, E.I.		Years of relevant experience with this employer
Title	Civil Project Designer		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Bachelor of Science / 1988 / Civil Engineering	
Active registration number / state / expiration date		E.I. 0013329 / LA / 9/30/2025	
Year registered	1989	Discipline	Civil
Contract role(s) / brief description of responsibilities		Project Civil Engineer – Roadway Abutments As one of Infinity's Senior Project Civil designers, Mr. Riviere holds extensive experience in inspection, design, construction and repair of roadways, bridges, and marine dock facilities. Combined with his knowledge of roadway design and drainage, Mr. Riviere has the knowhow to perform complete street designs including projects involving rail line integration and bridge systems.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
10/2021 – 10/2022	Hurricane Ida Damage Bridge Assessments – Under the direction of Infinity's engineer of record, performed storm damage assessments of 12 off-system bridges and 18 culvert locations suspected of storm damage. Each structure was inspected and documented with respect to storm related damage. Individual reports with photographs were completed and submitted to the Parish Officials.		
6/2012 – 8/2012	I-10 Overpass Inspection – Under the direction of Infinity's engineer of record, responsible for performing the pre and post inspection of Interstate 10 overpass and ramps in the vicinity of the Pallas Hotel Implosion. Reviewed LADOTD reports, established bent numbering in the field, performed pre and post inspections of deck surfaces and structures, and documented a written and digital report.		
9/2014 – 1/2015	City of New Orleans Bridge Inspections and Load Ratings – Under the direction of Infinity's engineer of record, acted as project manager of a team responsible for performing field inspections and load rating calculations on a total of twelve bridges. Performed superstructure and substructure calculations using the AASHTOWARE Bridge Rating Software (BrR, V6.8), MOVLOADS, and RAM Elements in combination with hand calculations. Assembled the final load rating reports to include the inspection forms, photos, and calculations for submittal.		
4/2012 – 11/2017	City of New Orleans CBD Waterline Replacement and Pavement Repairs – Under the direction of Infinity's engineer of record, assisted with the design of temporary water lines, trenching, bedding, placement of the new waterline and required pavement repairs . Valves and house connections within the segment were replaced. Fire hydrants along the segment were reconnected and/or relocated. The designs also included large valve pits for 30" water valves; the pit was approximately 18x15'		
8/2017 – 3/2022	Harmony Circle Downtown Loop Repavement Design – Under the direction of Infinity's engineer of record, prepared plans with specification notes for the replacement of pavement along the streetcar track on St. Charles Ave. and Carondelet St. Also prepared plans to restore and repair the cobble stone pattern on Lafayette Mall at Carondelet St. at the streetcar track crossing. Prepared traffic detour and control plans for the phased construction of this project.		
8/2013 – 1/2018	Canal Street/City Park Avenue Transportation Hub Enhancements – Under the direction of Infinity's engineer of record, performed design efforts involved with utility relocation design and the coordination and preparation of construction drawings , record specifications, and calculations. Prepared project schedule and estimates utilized the Federal Transportation Administration (FTA) project estimate workbook to prepare estimates to the FTA's Project Management Oversight Committee (PMOC) approval. Additionally, coordinated efforts with other RTA consultants, providing information and documents for use in the Environmental Assessment of this project.		
9/2017 – 7/2020	Filmore Group B Complete Street Reconstruction – Under the direction of Infinity's engineer of record, assisted with the designing of roadway improvements for the complete street reconstruction of Filmore Drive spanning just over 1000 LF. Responsibilities included designing new roadway design including infrastructure, striping, and street signage.		

Firm employed by Infinity Engineering Consultants, L.L.C.			
Name	Robert Haydel		Years of relevant experience with this employer
Title	Civil Project Designer		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		Bachelor of Science / 2005 / Physics Master of Science /2007 / Civil Engineering	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Project Civil Engineer – Hydraulics & Hydrology Modeling With over 18 years' experience, Robert Haydel is proficient in construction and project management as well as managing grant proposals. Mr. Haydel expertise lies in urban hydraulics and hydrology modeling, sediment transportation, and river morphodynamics.	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
5/2021 – 8/23	<u>Savanne Road Off-System Bridge Replacement</u> – Under the direction of Infinity's engineer of record, served as task leader of the drainage evaluation, calculations, and design for a 3 Span 60-foot-long reinforced concrete bridge. Responsibilities included developing a HEC RAS model to complete a hydraulics & hydrology analysis of the project site. Developed the hydraulic report to fulfill LADOTD requirements for bridge replacement.		
7/2021 – 8/23	<u>North River Road Off-System Bridge Replacement</u> – Under the direction of Infinity's engineer of record, served as task leader of the drainage evaluation, calculations , and design for a 3 Span 60-foot-long reinforced concrete bridge. Responsibilities included developing a HEC RAS model to complete a hydraulics & hydrology analysis of the project site. Developed the hydraulic report to fulfill LADOTD requirements for bridge replacement.		
12/2020 – Entering Construction Phase	<u>Decatur Street Waterline Replacement</u> – Participated as a project manager responsible for leading a team in designing the complete street replacement in the French Quarter neighborhood. The project required design and replacement of roadways, sidewalks, and driveways with the addition of ADA compliant ramps. Responsibilities also included drainage, sewer, and water design, analysis, evaluation, and replacement. Additionally, developed construction documents and cost estimate. All work was performed under the direction of Infinity's engineer of record.		
8/2022– Ongoing	<u>MSY Airport Stormwater Management Master Plan</u> – Under the direction of Infinity's engineer of record, led Infinity's team in conducting field investigations of major drainage facilities at Louis Armstrong International airport, as part of a stormwater management master plan. Responsibilities included applying the US EPA Storm Water Management Model to the development of a baseline condition hydrologic and hydraulic model for the stormwater system.		
10/2020 – Entering Bidding Phase	<u>Bainbridge Canal Closure & Roadway Improvements</u> – Participated as a project manager responsible for leading a team in designing the canal re-alignment, utility offsets, utility aerial crossings, and sewer lift station design. The project required design of 1,000 LF of a drainage canal, and design of a 200 GPM sewer lift station. Additionally, developed construction documents and cost estimate. All work was performed under the direction of Infinity's engineer of record.		
9/2008 – 7/2010	<u>New Orleans Drainage Master Plan</u> – As part of CDM Smith's City of New Orleans Stormwater Drainage Master Plan, analyzed New Orleans stormwater conveyance capabilities, and modeled the performance of the drainage system utilizing Storm Water Management Model (SWMM). Identified potential flood hazard areas throughout the city and provided recommendations for city drainage improvements utilizing green infrastructure techniques.		

Firm employed by Quality Engineering & Surveying, LLC.			
Deric J. Murphy, PE, LSI		Years of relevant experience with this employer	14
Principal in Charge		Years of relevant experience with other employer(s)	13
Degree(s) / Years / Specialization		BS / 1996 / Civil Engineering	
Active registration number / state / expiration date		29602 / LA / 9-30-2025	
Year registered	2001	Discipline	Civil Engineering
Contract role(s) / brief description of responsibilities			
Mr. Murphy has designed, drafted, and managed hundreds of municipal, private, and public projects, ushering them from conceptual design to completion. His experience includes design, supervision and general coordination of sub-consultants for various civil and municipal projects as well as the preparation of detailed construction plans, reports, technical specifications, contract documents, bid packages, cost estimates, hydraulic calculations and field studies. The types of projects he has been associated with include commercial and retail facilities, new sewer systems, highways, drainage and storm water improvements, pump station design, residential subdivisions and construction phasing plans. His experience in working one on one with the client and local governing agencies allows him to provide quality projects, thus ensuring that each one meets or exceeds even the most stringent timelines and budgets.			
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).		
06/2019 – 05/2020	Breaux Bridge Manor Drainage Improvements, St. Martin Parish – Instrumental in developing an approach to close down a major traffic route for one week instead of projected two months expected to complete construction of the project. The project removed an existing box culvert that was set at the wrong elevation on Doyle Melancon Road in Breaux Bridge, LA. A large metal span bridge replaced the existing culvert and was set at the appropriate elevation to ensure proper conveyance of water in the drainage area.		
05/2019 – 05/2021	Pine Bluff Drainage Improvements, Denham Springs, Livingston Parish – Principal Engineer leading the engineering and survey team to complete an H&H study and analysis before beginning the road elevation and cross drain culvert installation during this project to reduce roadway inundation occurrences.		
06/2017 – 08/2021	Whispering Springs Subdivision, Livingston Parish – Located in Livingston Parish, a 986-lot new development created a need for road widening to include left and right turn lanes at the site access. QES also did the survey work, landscape and planning, as well as infrastructure design. D.R. Horton tasked Mr. Murphy and QES with survey, master planning, grading and infrastructure design, and construction administration.		
01/2014 – 07/2017	Lake Villas Subdivision, East Baton Rouge Parish – Lake Villas is a 191-lot residential subdivision located in East Baton Rouge Parish. Mr. Murphy led the team as QES designed and provided construction documents that included grading plans, horizontal and vertical alignments for over 5,400 linear feet of roads, storm drainage and sanitary sewer along with erosion control plans, drainage calculations and drainage impact study.		

Firm employed by Quality Engineering & Surveying, LLC.				
Name	Brad Casso		Years of relevant experience with this employer	2
Title	Survey Manager		Years of relevant experience with other employer(s)	41
Degree(s) / Years / Specialization			N/A	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities				
Mr. Casso has just started with QES and brings over 40 years of survey field supervision experience. He has worked on a variety of commercial, residential, municipal, industrial, transportation, and right-of-way projects. His experience includes both office and field time. With his experience he has produced plats (including but not limited to boundary, topographic, as-built, ALTA/ACSM and right-of-way acquisitions), legal descriptions, elevation certificates and quantity calculations. In the field he is experienced in all types of land surveys including elevation, boundary, subdivision, topographic, route, right-of-way, and as-built surveys as well as construction staking for clearing, drainage, sewer and roadway construction.				
Experience dates	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).			
6/21 – 12/22	Sr. Party Chief - CSRS Inc Management of Field crew and all day-to-day tasks to include, Boundary, TOPO, Construction staking, Shallow water surveys. Acted as liaison between clients and office, instrumental in resolving field issues onsite. Promoted safety culture with implementation of safety meetings, as well as mindset. Recent projects to include, Amazon Facilities, Ascension Parish Watershed Study, Hwy182 Corridor Survey, various site development projects. Mr. Casso also preparation of final survey reporting for Asc. Watershed completed phases.			
2/18 – 6/21	Field PM - Independent Contractor Preparation of proposals, SOW, procedures, maps, reference data, equipment necessary and final reporting. Liaison to clients both offshore and on land to ensure safety, accurate execution, remediation, and deliverables. Oversight of all field personnel and vessels to obtain accurate surveys, conventional and acoustic, performed in both deep-water and shallow water environments, along with mobilization and de-mobilization of vessels involved.			
6/17 – 2/18	Project Surveyor - Shavers Whittle Management of all quantity & layout calculations, machine control, surface and model preparation, field layout and supervision, and As-Builts. Established and maintained horizontal and vertical control, calibration and site localization, along with preparation of all compliance cross section data for USACOE Compliance submittals. Established role as a liaison between contractor and USACOE Engineering, as well as other client bases.			
9/13 – 6/17	Field Project Manager/ Sr. Party Chief - Oceaneering-Survey Services International Supervision of personnel for all aspects of offshore survey projects from inception to completion. Preparation of proposals, maps, work scopes, reference data, equipment necessary and final reporting. Liaison to clients both offshore and on land to ensure safety, accurate execution, remediation, and deliverables. Responsible for accurate survey data both conventional and acoustic, performed in both deep water and shallow water environments, along with dimensional control, mobilization and de-mobilization of vessels involved.			

Firm employed by Quality Engineering & Surveying, LLC.			
Steven Brett Fitzgerald, PLS		Years of relevant experience with this employer	1
Professional Land Surveyor		Years of relevant experience with other employer(s)	25
Degree(s) / Years / Specialization		BS / 1999 / Physical Geography	
Active registration number / state / expiration date		5018/ LA / 3-31-2026	
Year registered	2009	Discipline	Professional Land Surveyor
Contract role(s) / brief description of responsibilities			
With 25 years of surveying experience Mr. Fitzgerald has filled a number of roles and has managed survey responsible charge responsibilities for numerous large-scale endeavors. Projects include oil and gas work from initial boundary and unit retracement, drill pad layout and design to pipeline planning, right-of-way plats and supporting documentation as well as as-builts; environmental and earth-work, including eight Superfund clean-up sites and numerous volumetric surveys; structural steel layout for plant unit expansions; hydrographic surveys for diverse projects, and other varied surveying services. Over the past 5 years, his primary focus has been on the surveying aspects of large scale residential and mixed-use planning, development and construction.			
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).		
10/21 – 10/23	Public Lands Survey, Plaquemines Parish - Retraced and monument 26 Sections along the lower Mississippi River (Federal client). This project involved record research of original GLO notes, extensive field work along the Mississippi River and surrounding marsh, examination and processing of field data, rectifying said field data with record research data and planning subsequent boundary monumentation in less than desirable locations and conditions.		
06/18 – 01/20	Fiber Optic Planning & Installation, Calcasieu Parish - Generated layout/stakeout survey data, as well as provide survey management field expertise and field services to install 7 miles of fiber optic cable along a major Louisiana highway.		
02/15 – 05/17	Boundary & Lease Holding Survey, East Baton Rouge and Iberville Parishes – Provided record research, field services, and expert opinions related to an oil and gas lease legal matter. The project encompassed nearly 1800 acres with limited surveying work having been performed in the area since the 1890’s. Deliverables in the form of written opinions, plats and other documents were provided.		
12/99 – 10/14	Mineral Unit Survey, Pointe Coupee Parish – Assisted in the boundary unit retracement of major holdings in Pointe Coupee Parish. These surveys encompassed a number of years and, in total, extended across some 10,000 acres. Services provided included record research, field work planning, field work execution, data processing/management, as well as field data and record boundary plat interpretation.		

Firm employed by Quality Engineering & Surveying, LLC.				
Name	Joseph Ferguson		Years of relevant experience with this employer	6
Title	Surveyor Technician V		Years of relevant experience with other employer(s)	26
Degree(s) / Years / Specialization			N/A	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities				
Mr. Ferguson has more than 25 years of field and technical experience in all aspects of survey-related projects. Mr. Ferguson spent the majority of his career in the field working from the ground up to a leadership role as a Sr. Party Chief where he mentored numerous employees. Mr. Ferguson now brings his experience into the office and spearheads all of the data management, constructions stakeout and CAD efforts. Mr. Ferguson has worked on a variety of projects from heavy civil, residential and construction stakeout to name a few and has a proven track record of timely and accurate construction information needed for quality layout.				
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).			
5/23 – Current	Laurel Ridge Levee – New Build Mr. Ferguson was instrumental in all phases of this high-profile levee project. He handled all data incoming and outgoing, provided all stakeout and processing, assisted with scheduling field work and CAD efforts, and liaised between Lemoine personnel and QES for various multi trade involvement efforts in field.			
5/17 – 5/23	Skinner Drive Drainage Improvement Project Hydrologic study and development of plans for the installation of a new subsurface system along the street to provide a clear path to the outfall location.			
12/18 – Current	Multiple Residential Developments Mr. Ferguson has taken part in the control set up, calculations, stakeout point generation, and QC of field data for numerous residential developments. He has taken the lead on all flood zone determination, and certificate work working hand in hand with field staff, surveys and clients on every aspect of this effort.			
7/21 – 5/23	Gray’s Creek Drainage Improvements Surveying and engineering services for a drainage improvement project for Gray’s Creek The project consisted of developing a retainage system to reduce the effect of inland flooding in Livingston Parish. Mr. Ferguson was responsible for leading the survey data processing to complete a topographic survey of the area to be used in the H&H study of the area.			

Firm employed by Quality Engineering & Surveying, LLC.				
Name	Jonathan Coco		Years of relevant experience with this employer	4
Title	Field Survey Supervisor		Years of relevant experience with other employer(s)	19
Degree(s) / Years / Specialization			N/A	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities				
Mr. Coco will plan and oversee all aspects of all remote sensing operations including Aerial/ Terrestrial/Mobile – Lidar or Photogrammetry, Single beam/Side Scan/Multibeam/ Profiling/ ADCP - Hydrographic Sonar. Magnetometry. Streamflow/Scour/Erosion. Mr. Coco has a back-ground in a variety of remote sensing applications, 3D modeling, robotics, and structural forensics. He is experienced in 3D LiDAR scan processing, VR, MicroStation, Leica Infinity, Faro Scene. Mr. Coco's project experience includes: Terrestrial scanning, mobile mapping, hydrographic, structural documentation and analysis. His current role at QES is Remote Sensing and Metrology Manager but he has served as a Research and Development Specialist, Project Manager, Structural Designer, and CADD Manager.				
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).			
10/22 – 5/23	12 Mile Bayou Pumping Station Upgrade Provided engineering services for the design upgrades to the existing 12 Mile Bayou Pump Station. All pumps and motors were slated for upgrade but concern was expressed over fit and installation. Mr. Coco was responsible for all terrestrial scanning and development of 3D models and 2D plans.			
5/17 – 5/23	Amite River Basin Drainage Study As a separate drainage study with DOTD Mr. Coco developed and implemented a plan for rapidly surveying and terrestrial scanning all roadway bridges crossing the Amite and Comite rivers from the Pride area to Lake Maurepas for use in building HEC-RAS models for drainage studies. Mr. Coco developed an efficient point cloud extraction methodology representing the river flow restriction geometry necessary for direct input into the HEC-RAS software. In addition, a simple 360° camera and software system was developed to capture supplemental imagery under and surrounding all bridges and published to Google StreetView for easy access.			
5/13 – 10/21	Belle Chase Bridge and Tunnel Survey This DOTD project was a pre-design survey of the entire Belle Chase Bridge and Tunnel System. Mr. Coco planned and managed all terrestrial scanning and hydrographic operations of all surrounding roadways, bridge structures, and tunnels to provide survey data for Bentley InRoads deliverable. As a part of his contributions, he developed a custom “railbot” that was remotely controlled to climb the bridge guardrails to conduct the necessary terrestrial scans without bridge closure. He also devised a targeting methodology and mounting system to conduct tunnel scanning operations without closure. This eliminated the need for all traffic control design and implementation, as well as avoiding economic impacts due to closure.			

Firm employed by Quality Engineering & Surveying, LLC.				
Name	Joey Pitzer		Years of relevant experience with this employer	10
Title	Field Survey Supervisor		Years of relevant experience with other employer(s)	45
Degree(s) / Years / Specialization			N/A	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities				
Mr. Pitzer has more than 45 years of field and technical experience in all aspects of civil engineering projects. Specifically, Mr. Pitzer is one of QES' most seasoned survey personnel, including many years as senior level field surveyor, crew chief and field operations director. This knowledge was gained in the field and training and supervising others in the field. His immense experience and dedication to his work is a great asset to Quality and the projects that he works on. Mr. Pitzer has worked on a variety of projects in municipal, commercial, and residential. Mr. Pitzer is the field crew coordinator at Quality Engineering and Surveying. He oversees 8 Rodman and Party Chiefs.				
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the time specified in the applicable MPR(s).			
10/22 – 5/23	Chappapeela Drainage Improvement Project Mr. Pitzer serves as Survey Crew Chief for the Chapapeela Drainage Improvement Project. Quality Engineering was selected by the Tangipahoa Parish Government to survey the area, complete detailed hydrologic and hydraulic studies of Chappapeela Creek watershed, including Little Chappapeela Creek and other upstream branches, and evaluate possible drainage improvements including detention and retention ponds.			
5/17 – 5/23	Skinner Drive Drainage Improvement Project Hydrologic study and development of plans for the installation of a new subsurface system along the street to provide a clear path to the outfall location.			
5/13 – 10/21	Jesuit Bend Drainage Improvements The proposed project will improve drainage by allowing water to convey from the east side of LA Hwy 23 to the west side to the existing drainage system. Mr. Pitzer was responsible for leading the survey team and served as Senior Field Crew Chief.			
7/21 – 5/23	Gray's Creek Drainage Improvements Surveying and engineering services for a drainage improvement project for Gray's Creek The project consisted of developing a retainage system to reduce the effect of inland flooding in Livingston Parish. Mr Pitzer was responsible for leading the survey team to complete a topographic survey of the area to be used in the H&H study of the area.			
6/19 – 5/20	Breaux Bridge Manor Drainage Improvements Engineering services to complete H&H study, environmental and necessary permitting, and to prepare engineer and design plans and specifications for the Breaux Bridge Manor Drainage Improvement Project. Mr. Pitzer served as Senior Crew Chief and Field Operations Director			

Firm employed by: ELOS Environmental, LLC			
Name	Lucas Watkins		Years of relevant experience with this employer
Title	Principal/Environmental Scientist		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		MS / 2005 / Biological Sciences BS / 2000 / Forest Management	
Active registration number / state / expiration date		National Highway Institute: NEPA & Transportation Decision-Making Process	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Principal, Project Oversight, NEPA Clearance, Agency Coordination, Stakeholder Outreach, and Public Meetings	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/20 – Ongoing	LADOTD Rural Bridges, Phases I & II; Statewide, LA: ELOS has been contracted to provide environmental services for the LADOTD Rural Bridge Replacement Initiative projects in six districts across the state. Mr. Watkins ensures that all phases of the project adhere to federal and state environmental regulations. He facilitates effective communication among DOTD officials, environmental organizations, and other stakeholders to address concerns and maintain transparency throughout the project.		
09/22 – Ongoing	DOTD IJA Off-System Bridges District 62: This off-system bridge project involves the replacement of six bridges; ELOS is performing wetland delineations, completing permit applications, completing solicitation of views to document categorical exclusions for the work proposed, completing cultural resources research, tribal packets, and reports, and write navigability determination reports. Mr. Watkins has reviewed the findings reports prior to client submission.		
10/23 – Ongoing	EBR Off System Bridge Program: ELOS is contracted to prepare and submit permit applications to the U.S. Army Corps of Engineers (USACE) to include completing permit application packet, documenting the rationale for the project, providing the summary of project and detailed verbal description of the project location. ELOS is also responsible for generating one site plan for each project and coordinating with USACE for a permit under Section 10/404 of the Clean Water Act. Mr. Watkins the permit application throughout the entire process to ensure success of the permit process.		
08/22 – 08/24	LADOTD Rousseau Bridge Replacement; St. Tammany Parish, LA: ELOS was contracted to provide professional environmental for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Mr. Watkins directed the comprehensive assessment of potential environmental impacts related to transportation infrastructure projects. He ensured the accuracy, completeness, and integrity of environmental reports and documentation submitted to regulatory agencies for review and approval.		
2/22 – Ongoing	STP Lock No. 3 Replacement: ELOS has been contracted to perform wetland delineation, submit joint permit applications, perform a State Historic Preservation Office (SHPO) Section 106 desktop review and Consultation, and perform a U.S. Fish and Wildlife (USFWS) Endangered Species Act (ESA) Biological assessment for the St. Tammany Parish Lock No. 3 Bridge Replacement project. Mr. Watkins ensures that all phases of each step of the project complies with all state and federal regulations.		
3/24 – Ongoing	Brownswitch Road Bridge Replacement: ELOS was contracted to collect data and prepare a report to support a Wetland Delineation and manage the permit process with the USACE. ELOS will facilitate compliance with Section 106 of the National Historic Preservation Act (NHPA) of 1966 by completing a Section 106 Desktop Review. ELOS will conduct a biological survey to determine potential effects on species protected under the Endangered Species Act (ESA), Migratory Bird Treaty Act (MBTA), Bald and Golden Eagle Protection Act (BGEPA) and		

	all other applicable law and regulations. Mr. Watkins has overseen every step of the process ensuring compliance with all regulations and transparency between all stakeholders in the project.
4/22 – Ongoing	Yellow Water Road Bridge Replacement: ELOS has been contracted to prepare a Early Section 106 Tribal coordination packet and submit it to the DOTD Project Manager (ELOS will not directly communicate with the tribal governments). ELOS will conduct biological assessment and a review of previous Historic Reviews. Mr. Watkins will review the finding of all reviews and the permit packet prior to submission.
12/22 – Ongoing	Wildwood Dr. Bridge: ELOS was contracted to perform a Wetlands Delineation Assessment, a Biological Assessment, and a Cultural Resource Survey. Mr. Watkins directed the assessments and ensured the accuracy of the Cultural Resource Survey. He supervised the submission of all pertinent documentation to the appropriate agencies.
11/17 – Ongoing	Move Ascension, Phases I, II, & III; Ascension Parish, LA: ELOS is contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, varying from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish. Mr. Watkins has reviewed delineation details, edited cultural resource reports, developed and analyzed alternatives, reviewed scheduled, assisted with wetland mitigation, and reviewed permit applications.
08/22 – Ongoing	H.014362 Lake Road; St. Tammany Parish, LA: ELOS was contracted to complete the solicitation of views and categorical exclusion notices, conduct a wetland delineation, and submit a joint permit application, scenic rivers permit application, and USCG bridge permit application for the project. Mr. Watkins reviewed the categorical exclusion packet and assisted with agency coordination and requests for more information.
02/23 – Ongoing	DOTD Roundabout at Minnesota Park and Range Road; Tangipahoa Parish, LA: ELOS is contracted to complete a wetland delineation report, submit a permit application, as well as assist with a CATEX, Phase I ESA, and the solicitation of views (SOVs) for the roundabout project at the intersection of Minnesota Park and Range Road. Mr. Watkins monitors the project timelines, milestones, and budgets to ensure timely delivery of environmental assessments that align with project schedules. He also reviewed the SOVs and supporting documentation prior to initiating the process with agencies.
08/22 – Ongoing	MoveBR Mickens Road; East Baton Rouge Parish, LA: ELOS is contracted to provide environmental services for a 2.8-mile-long roadway improvements project on Mickens Road from Hooper Road to Joor Road in East Baton Rouge. Services included a wetland delineation, a Phase I ESA, and a permit application to USACE. Mr. Watkins has reviewed the wetland delineation report, coordinated staff for the Phase I ESA tasks, reviewed final reports, and consulted with the Parish leadership.

Firm employed by: ELOS Environmental, LLC				
Name	Brian Fortson		Years of relevant experience with this employer	11
Title	Senior Project Manager/Biologist		Years of relevant experience with other employer(s)	23
Degree(s) / Years / Specialization		JD/2006/Civil Law BS/1995/Wetland Ecology		
Active registration number / state / expiration date		N/A		
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities		Project Management, NEPA Clearance, Feasibility Analysis, and Agency Coordination		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
08/23 - Ongoing	EBR Off System Bridge Program; Mr. Fortson has coordinated with the environmental scientists to review the wetland delineation reports and assist with USACE permit applications for 13 bridge replacements.			
09/20 - Ongoing	LADOTD Rural Bridges Phases I & II; Statewide, LA: ELOS has been contracted to provide professional environmental consulting services for the LADOTD Rural Bridge Replacement Initiative for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under 9 state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, 58. Almost all the projects have included a wetland delineation, permit applications, cultural resource survey, and a T&E survey. Reviewed wetland delineation reports and categorical exclusion documentation, discussed findings and reviewed data for final reports, and met with staff to develop threatened and endangered species surveys.			
09/22 - Ongoing	DOTD IJA Off-System Bridges District 62: This off-system bridge project involves the replacement of six bridges; ELOS is performing wetland delineations, completing permit applications, completing solicitation of views to document categorical exclusions for the work proposed, completing cultural resources research, tribal packets, and reports, and write navigability determination reports. Mr. Watkins has reviewed the findings reports prior to client submission.			
10/22 – 09/23	LADOTD Rousseau Bridge Replacement; St. Tammany Parish, LA: ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Services included a wetland delineation, Scenic Rivers permit application, emergency authorization application to USACE, SOVs, and a final report. Mr. Fortson assisted with the report drafts and permit applications.			
05/21 – 05/22	STP Chris Kennedy RD Bridge Replacement; ELOS was contracted to provide professional environmental engineering services to collect data to further prepare reports for wetland delineation, biological assessment and cultural impact in accordance with the removal and replacement plans. Mr. Fortson coordinated with internal teams to review reports, correlative maps, and environmental data to complete the approved contract.			
03/22 – 12/23	STP Lock No. 2 Bridge Replacement; Assisted with internal teams to provide Cultural resource services for the Lock No. 2 Bridge replacement located on approximately 4.83-acres in St. Tammany Parish. ELOS was contracted to provide Section 106 of NHPA, Terrestrial Phase I Culture Resource Survey and Cultural Resource Assessment No Findings report.			
02/23 - Ongoing	LADOTD Roundabout at Minnesota Park and Range Road; Tangipahoa Parish, LA: ELOS is contracted to complete a wetland delineation report, submit a permit application, as well as assist with a CATEX, Phase I ESA, and the solicitation of views (SOVs) for the roundabout project at the intersection of Minnesota Park and Range Road. Mr. Fortson monitors the project timelines, milestones, and budgets to ensure timely delivery of environmental assessments that align with overall project schedules.			

Firm employed by: ELOS Environmental, LLC			
Name	Basile Dardar		Years of relevant experience with this employer
Title	Environmental Specialist / Project Manager		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		BS/2014/Biology	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Wetland Studies, Environmental Data Collection & Surveys, Endangered Species Survey including tri-colored bat, Environmental Permits, Impacts Evaluation, NEPA Clearance, and Stage 0 Checklists	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
08/23 - Ongoing	EBR Off System Bridge Program; Mr. Dardar has coordinated with the field team to conduct wetland delineations, complete wetland findings reports, work with the USACE for jurisdictional determinations of wetlands, and assist with USACE permit applications and supporting documentation for 13 bridge replacements.		
09/22 - Ongoing	DOTD IJJA Off-System Bridges District 62; ELOS is contracted to provide comprehensive services to replace bridges throughout various parishes located in Southeast Louisiana in several phases until completion. Mr. Dardar has coordinated with field teams to assess cultural and environmental impacts. Through ongoing efforts, Mr. Dardar has maintained the required data and documentation and reviewed deliverables and reports applicable to SOVs, wetland delineations, and categorical exclusion of the construction activities. He has assisted with preparing applicable permits, maps, forms, and supplemental documentation.		
04/22 – Ongoing	Tangi Off-System Bridge Prioritization; Tangipahoa Parish, LA: ELOS is contracted to provide environmental services including wetland delineations, Solicitation of Views (SOVs), Categorical Exclusion (CE) documents, and permit applications and drawings for six bridges to be replaced in District 62. Mr. Dardar has conducted wetland delineations, prepared and submitted permit applications, and led the team in completing the SOVs and CE documentation.		
06/22 – 09/23	LADOTD Rousseau Bridge Replacement; St. Tammany Parish, LA: ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Services included a wetland delineation, Scenic Rivers permit application, emergency authorization application to USACE, SOVs, and a final report. Mr. Dardar has conducted a wetland delineation, submitted reports to USACE, coordinated with the field team regarding SOVs and information needed, and reviewed permit drawings.		
11/21 – Ongoing	LADOTD Rural Bridges Phases I & II; Statewide, LA: ELOS has been contracted to provide professional environmental consulting services for replacing bridges in rural areas for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under 9 state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, and 58. Almost all the projects have included a wetland delineation, permit applications, a cultural resource survey, and a threatened and endangered species survey. Mr. Dardar has coordinated field crews, performed wetland delineations, collected and inputted data, written and produced reports, developed timelines, coordinated with LADOTD, worked on permit applications with state and federal agencies, and assisted with the surveys.		

Firm employed by: ELOS Environmental, LLC			
Name	Cory Ricks		Years of relevant experience with this employer
Title	Environmental Specialist		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		BS/2015/Biology	
Active registration number / state / expiration date		N/A	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Environmental Data Collection & Surveys, Impacts Evaluation, NEPA Clearance, and Stage 0 Checklists	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
09/20 - Ongoing	LADOTD Rural Bridges Phases I & II; Statewide, LA: ELOS has been contracted to provide professional environmental consulting services for the Department of Transportation and Development (LADOTD) Rural Bridge Replacement Initiative for two project phases. Phase 1 involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under 9 state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, 58. Almost all the projects have included a wetland delineation, permit applications, cultural resource survey, and a threatened and endangered species survey. Mr. Ricks has coordinated field crews, performed wetland delineations, written and produced reports, developed timelines, coordinated with LADOTD, and assisted with the surveys.		
06/22 - 09/23	LADOTD Rousseau Bridge Replacement; St. Tammany Parish, LA: ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Services included a wetland delineation, Scenic Rivers permit application, emergency authorization application to USACE, SOVs, and a final report. Mr. Ricks worked on the emergency authorization application since the bridge was the only way to access a neighborhood, assisted with the Scenic Rivers permit application, and provided project updates to St. Tammany Parish.		
04/22 - 02/24	Tangi Off-System Bridge Prioritization; Tangipahoa Parish, LA: ELOS is contracted to provide environmental services including wetland delineations, Solicitation of Views (SOVs), Categorical Exclusion (CE) documents, and permit applications and drawings for six bridges to be replaced in District 62. Mr. Ricks conducted a gopher turtle survey, wrote the findings report, completed permit applications with supporting documentation, and assisted with agency coordination.		
02/23 - Ongoing	LADOTD Minnesota Park / Range Road Roundabout; Tangipahoa Parish, LA: ELOS is contracted to complete a wetland delineation report to obtain a jurisdictional determination from the U.S. Army Corps of Engineers (USACE), submit a permit application, if necessary, as well as assist with a Categorical Exclusion (CATEX), Phase I Environmental Site Assessment (ESA), and the Solicitation of Views (SOVs) for a roundabout project (H.014340) covering 2.5 acres in Tangipahoa Parish. Mr. Ricks has researched additional information for reports, worked on files related to the CATEX, and assisted with reviewing agency requests for more information.		
05/22 - 03/24	North Brickyard Road Bridge Replacement Program: Mr. Ricks initiated the Solicitation of Views (SPVs), Categorical Exclusion (CE) documents, and reviewed all supporting documentation as it was sent and received from the agencies. He also assisted with permit applications and agency coordination when asked for additional information.		

Firm employed by: ELOS Environmental, LLC				
Name	Hunter Perrilloux		Years of relevant experience with this employer	4
Title	Environmental Scientist		Years of relevant experience with other employer(s)	1
Degree(s) / Years / Specialization			BS/2018/Biology	
Active registration number / state / expiration date			N/A	
Year registered	N/A	Discipline	N/A	
Contract role(s) / brief description of responsibilities			Environmental Data Collection & Surveys, Impacts Evaluation, NEPA Clearance, SOV's, and Stage 0 Checklists	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
09/20 - Ongoing	LADOTD Rural Bridges Phases I & II; Statewide, LA: ELOS is contracted to provide wetland delineations, threatened and endangered species surveys, and permit applications for the replacement of rural bridges throughout Louisiana. Mr. Perrilloux has worked on phase II of the project and has conducted the fieldwork for the wetland delineations. He has also conducted endangered species surveys for the long-eared northern bat.			
07/23 - 12/23	OSBR Bridges Libuse Cutoff: Mr. Perrilloux performed a wetland delineation for the off-system bridge project. He identified and mapped out the boundaries of wetlands within the project area. He assisted with the field surveys, reviewing relevant data, and applying the appropriate wetland delineation methods as outlined by regulatory agencies.			
5/22 - 5/23	Tangi Off-System Bridge Prioritization: Mr. Perrilloux provided comprehensive environmental services for the off-system bridge project, including coordination with GIS specialists to create accurate map outlines of the project area. He performed a detailed wetland delineation, accurately identifying and mapping wetland boundaries. He collected field data to support the delineation and compiled all documents to create a wetlands findings report. In addition, Mr. Perrilloux prepared and submitted the necessary permit applications to ensure compliance with environmental regulations, facilitating a smooth review and approval process for the project.			
10/21 - 11/21	Fox Hollow Bridge II: Mr. Perrilloux performed a thorough wetland delineation for the project area, accurately identifying wetland boundaries based on field observations. He collected essential data during the fieldwork, which was then input into a detailed Wetland Delineation Report, along with creating a photo log to document visual evidence of wetland features. Additionally, he assisted in the preparation of permit applications and supported the transmittal of reports to relevant regulatory agencies, ensuring all documentation was submitted in a timely and accurate manner for project compliance.			
6/23 - 12/23	CRMC Greenwell Springs Road Site: Mr. Perrilloux performed wetlands delineation, identifying and mapping wetland boundaries based on field data, then compiled the findings into a comprehensive wetland delineation report. He submitted the report to the relevant parish authorities for review. Also, he reviewed the restoration plan, ensuring it addressed environmental requirements and mitigation strategies.			
6/22 - 7/22	STP Lock No. 2 Bridge Replacement: Mr. Perrilloux coordinated with the GIS team to develop a site outline and assist in the desktop wetland delineation process, ensuring accurate mapping of potential wetland areas. He contributed to the impacts section of the environmental application by documenting potential wetland impacts and providing necessary data for review. Also, he reviewed environmental documents for accuracy and sent shapefiles to the U.S. Army Corps of Engineers (USACE) for their approval. In the field, he performed wetland delineation by collecting data on vegetation, soil, and hydrology, helping to determine wetland boundaries, then compiled the findings into a detailed wetland delineation report and submitted it to regulatory agencies for review.			

Firm employed by: ELOS Environmental, LLC			
Name	Christopher Wilson		Years of relevant experience with this employer
Title	Archaeologist		Years of relevant experience with other employer(s)
Degree(s) / Years / Specialization		MA/2023/Art History and Curatorial Studies MA/2022/Archaeology BA/2021/Art and Archaeology	
Active registration number / state / expiration date		Registered Professional Archaeologist	
Year registered	N/A	Discipline	N/A
Contract role(s) / brief description of responsibilities		Section 106 Desktop Reviews, Terrestrial and Maritime Archaeology, Phase I, II, and III Cultural Resource Surveys, Evaluations, and Recoveries, Construction Monitoring	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
08/23 - 11/24	DOTD Rural Bridge Replacement Phases I & II: Mr. Wilson was responsible for providing CRM (Cultural Resource Management) services for a DOTD rural bridge replacement project. His duties included conducting research, preparing a Phase I report, and managing STP (Shovel Test Pit) data. He coordinated with agencies such as SHPO (State Historic Preservation Office), NRHP (National Register of Historic Places), and DOTD. Additional tasks include preparing transmittal letters, completing LHRI (Louisiana Historic Resource Inventory) forms, managing the Survey123 platform, overseeing field crew activities, and preparing and submitting the final report. Mr. Wilson ensured all documentation and processes meet regulatory requirements for cultural resource assessments.		
12/23 - 9/24	DOTD IJA Off-System Bridges District 62: Mr. Wilson was responsible for providing comprehensive CRM services for the DOTD Off-System Bridges District 62 project. His tasks included conducting background research, preparing desktop reports, and overseeing field crew activities. He utilized topographical maps and aerial investigations to gather critical data. Mr. Wilson also created and submitted tribal packet research, along with collecting CRM information necessary for Categorical Exclusion (CATEX) evaluations. Additionally, he coordinated with agencies such as LHRI, DOTD, and SHPO to ensure compliance with regulations. Mr. Wilson prepared a Section 106 desktop report, assessing potential impacts on historic properties and ensuring the project aligns with cultural resource preservation requirements.		
10/24 - Ongoing	Brownswood Road Bridge Replacement: For the St. Tammany bridge replacement project, Mr. Wilson provides CRM services, focusing on Section 106 compliance. His responsibilities include conducting a CRM Section 106 desktop review to assess the potential impacts of the bridge replacement on cultural resources. This involves reviewing SHPO databases for historic properties, conducting a cemetery review to identify any burial sites in the area, and assisting with the preparation of maps and aerial images to support the cultural resource assessment. He also compiles and creates a detailed Section 106 desktop review report, summarizing findings and ensuring compliance with historic preservation requirements, while addressing potential impacts to cultural resources in the project area.		
11/23	Tangi Off-System Bridge Prioritization: For the DOTD Off-System Bridge Prioritization Project, Mr. Wilson provided a review of the project site to assess the potential effects of bridge replacements on cultural resources. He verified no cultural resources were needed, allowing the project to move forward in accordance with regulatory requirements.		
11/23	N. Brickyard Road Bridge Replacement: Mr. Wilson reviewed the project site to assess with the potential effects of the bridge replacement on cultural resources. He verified no cultural resources were needed, allowing the project to move forward in accordance with regulatory requirements.		

17. Firm Experience:

Firm name	Infinity Engineering Consultants, L.L.C.		Discipline(s)*		Bridge	
Project name	Joe Brown Park Bridge Replacement Design				Firm responsibility (prime or sub?)	Prime
Project number	IEC-15-009	Owner's name				
Project location	New Orleans, LA			Owner's Project Manager	James Kapisis	
Owner's address, phone, email	1300 Perdido St., RM 6W03, NOLA 70112; jrkapisis@nola.gov; 504-658-8041					
Services commenced by this firm (mm/yy)	2/2015	Total consultant contract cost (\$1,000's)			\$93	
Services completed by this firm (mm/yy)	10/2017	Cost of consultant services provided by this firm (\$1,000's)			\$73	

Infinity performed the above and below deck condition inspection and evaluation of fourteen (14) bridges around the City of New Orleans. The fourteen bridges located throughout New Orleans consisted of a variety of materials, including concrete, timber, and steel. The City of New Orleans required these bridges to be inspected and structural analyses performed to assign load ratings as per AASHTO requirements. Infinity determined most of these bridges met the AASHTO load rating requirements, and proscribed remedial repairs or replacement for those that did not.

After careful analysis of the bridge inspection, Infinity recommended to the City of New Orleans for a bridge to be replaced in Joe Brown Park along the north lagoon on Waterford Blvd. Infinity provided the engineering designs for a complete replacement of the bridge.

The project included the demolition of the old bridge and its timber support piers. Infinity provided engineering designs for new abutments/approach paving, installation of new concrete pilings, installation of three new deck panels, new abutments, and new approach slabs. Additionally, Infinity oversaw the establishment of new traffic markings and roadway striping.

Infinity engineers involved with project: **William Thomassie, P.E.; Rachel Kenney, P.E.; Ricardo Contreras, P.E.**

Project Similarities:

- Bridge Structural Analysis
- New Vehicular Bridge Design
- AASHTO Load Rating
- Sub-Consultant Coordination



Firm name	Infinity Engineering Consultants, L.L.C.		Discipline(s)*	Bridge	
Project name	Shintech Water Intake Vehicular Bridge and Platform			Firm responsibility (prime or sub?)	Prime
Project number	IEC-21-009	Owner's name	Shintech Louisiana		
Project location	Plaquemine, LA			Owner's Project Manager	Nathan Ferrington
Owner's address, phone, email	LA-1, Plaquemine, LA 70764 225-684-2105; nferrington@shin-tech.com				
Services commenced by this firm (mm/yy)	4/2021	Total consultant contract cost (\$1,000's)			\$249
Services completed by this firm (mm/yy)	3/2024	Cost of consultant services provided by this firm (\$1,000's)			\$249

Infinity was tasked with providing engineering services related to the design of a new water intake platform for Shintech's SPP3 plant in Plaquemine, LA. This is a multi-disciplinary design consisting of, civil, structural, mechanical, and electrical engineering, as well as instrumentation and field services. The civil and structural scope consists of the design of the following:

- **Heavy equipment concrete bridge to the new platform**
- Vehicular levee crossing
- Piling and concrete foundations
- Steel platform and drift deflector

Additionally, Infinity was tasked with specifying a jib crane and designing the platform to accommodate the crane loads. Finally, Infinity is to update the calculations for the existing structure to include a load analysis of proposed piping. The mechanical tasks include the design of the above ground piping from the pump station to the piperack bridge at the levee. This includes preparing ortho drawings, a comprehensive 3D model, isometric drawings, pipe support details, and general arrangements of the equipment. Infinity is to perform a pipe stress calculation, a hydraulic analysis, and participate in HAZOP. The electrical and instrumentation scope primarily included the design of the power distribution and grounding components of the electrical system and the instrumentation components of the project.

The field services scope contained performing **hydrographic and topographic surveys** of the existing site conditions as well as capturing the conditions with drone photography and videography.

Infinity engineers involved with project: Cindy Gallo, P.E.; Louis Jackson, P.E.; Ricardo Contreras, P.E

Project Similarities:

- Heavy Equipment Vehicular Bridge Design
- Hydrographic Surveys
- Project Management & Sub-Consultant Coordination



Firm name	Infinity Engineering Consultants, L.L.C.		Discipline(s)*		Bridge	
Project name	Off-System Highway Bridge Program Savanne Road Over Hanson Canal			Firm responsibility (prime or sub?)		Prime
Project number	Contract No. 4400019314	Owner's name	Louisiana Department of Transportation & Development			
Project location	Houma, LA			Owner's Project Manager		Barbara Ostuno, P.E.
Owner's address, phone, email		1201 Capitol Access Road, Baton Rouge, LA 70802; 225-379-1047; Barbara.ostuno.la.gov				
Services commenced by this firm (mm/yy)		5/21	Total consultant contract cost (\$1,000's)			\$55
Services completed by this firm (mm/yy)		8/23	Cost of consultant services provided by this firm (\$1,000's)			\$32

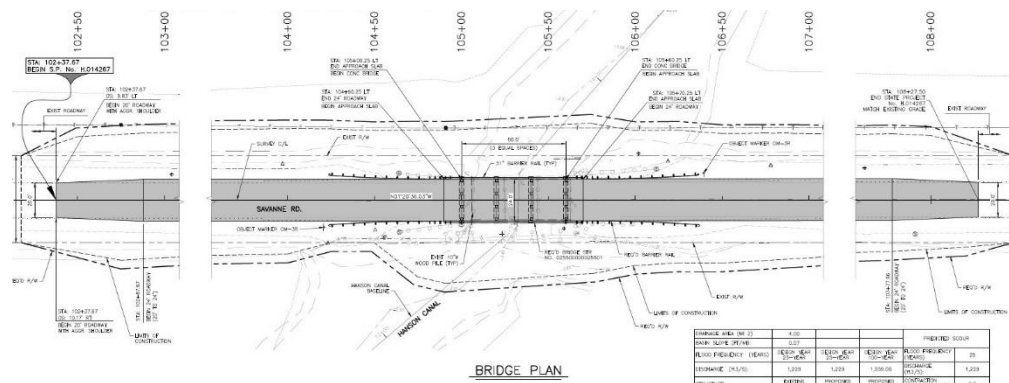
As part of the Louisiana DOTD Off-System Highway Bridge program, Infinity Engineering provided **preliminary engineering design work on the replacement of an off-system bridge** along Savanne Road crossing over Hanson Canal in Houma, Louisiana. As the prime, Infinity provided all **structural/civil engineering designs for the bridge replacement** as well as coordinated all land surveying and environmental services. Infinity ensured all proper safety measures for flagging and traffic control are followed during site visits, surveying, and measurements.

Project Similarities:

- DOTD Off-System Bridge Design
- DOTD Hydraulics Manual
- Civil/Structural Engineering
- Sub-Consultant Coordination

For the preliminary plans of the project, a hydraulic design was performed to the specified DOTD Hydraulics manual to ascertain all viable drainage design options for the bridge. Additionally, Infinity coordinated with ELOS Environmental to identify and properly delineated all impacted wetlands to the Corps of Engineers guidelines.

Infinity also, at the same time, provided preliminary engineering designs and coordinated sub consultant professional services for the replacement of an off-system bridge along North River Road over Irving Branch.



Infinity engineers involved with project: **Ricardo Contreras, P.E.; Kevin Hurtt, PE**

Firm name	Infinity Engineering Consultants, L.L.C.		Discipline(s)*		Bridge	
Project name	Alvin Calendar Airfield Vehicular Bridge				Firm responsibility (prime or sub?)	Sub
Project number	IEC-20-019	Owner's name	STOA Architects			
Project location	Belle Chasse, LA			Owner's Project Manager	Robert McClendon	
Owner's address, phone, email		121 E. Government St, Pensacola, FL 32502; 850-432-1912; mcclendon@stoaarchitects.com				
Services commenced by this firm (mm/yy)		9/2020	Total consultant contract cost (\$1,000's)			N/A
Services completed by this firm (mm/yy)		1/2023	Cost of consultant services provided by this firm (\$1,000's)			\$86

Infinity provided structural designs for this naval air station project. The structural designs included the establishment of a **new vehicular bridge** that spans across a drainage canal that parallels Barrier Road. The bridge is approximately **50 feet wide by 160 feet in length** and includes approach spans at both ends.

While the bridge is essentially level, the designs called for the bridge to uniformly elevated to span the canal and align with target grades, which is slightly higher than existing ground surfaces. Initial designs called for the bridge to be two lanes; however, it was revised to be a four-lane bridge with concrete spans. Infinity created structural designs for the reinforced abutment, pile support, lateral retaining walls, wing walls, and bridge deck. All bridge designs were developed in accordance with **ASHTO guidelines**.

The detailed designs for the bridge include the following:

- Pile Selection and Specification
- Pile Cap Design
- Abutment Design Including Lateral Retaining Walls
- Bridge Deck Design

Infinity engineers involved with project: **William Thomassie, P.E.; Rachel Kenney, P.E.; Ricardo Contreras, P.E.**

Project Similarities:

- New 4-Lane Vehicular Bridge Design
- AASHTO Guidelines
- Lateral Retaining Wall Design



Firm name	Infinity Engineering Consultants, L.L.C.		Discipline(s)*	Bridge
Project name	Magnolia Street Bridge Replacement			Firm responsibility (prime or sub?) Prime
Project number	IEC-19-004	Owner's name	City of Slidell	
Project location	Slidell, LA		Owner's Project Manager	Blaine Clancy, P.E.
Owner's address, phone, email	1325 Bayou Lane, Slidell, LA 70460; 985-646-4270; bclancy@cityofslidell.org			
Services commenced by this firm (mm/yy)	9/2019	Total consultant contract cost (\$1,000's)		\$56
Services completed by this firm (mm/yy)	11/2024	Cost of consultant services provided by this firm (\$1,000's)		\$56

Infinity Engineering was the prime consultant for the replacement of Magnolia Street Bridge in Slidell, LA. The civil/structural designs called for the **replacement of an existing bridge with a 2-4-ft x 6-ft reinforced aluminum box culvert** and replace approximately 60-LF of existing roadway and guardrails on each side of the roadway. Additionally, the replacement of the bridge required a horizontal offset of an existing sanitary sewer line. The project designs included **detailed drainage improvements**.

Also, Infinity designed a temporary pedestrian crossing to allow residents between the project location and the dead end to cross the drainage ditch and access their residences during the construction phase. Careful consideration has been given to the construction timeline to not adversely affect residents. The shutdown of any walkways has been limited to a maximum of eight hours per day with notice given to residents at minimum seven days in advance. The engineering designs have also factored in minimizing the impact on the local environment as all trees in the area are to remain in place and unharmed. Throughout the construction phase of the project, Infinity is providing resident inspection services. The final designs also included a load rating.

Project Similarities:

- Demolition Design of Previous Bridge
- Temporary Crossings During Construction
- Roadway and Guardrail Replacement
- Environmental Considerations



Firm name	Quality Engineering & Surveying, LLC.		Past Performance Evaluation Discipline(s)*	Survey	
Project name	MOVE Ascension–State Hwy 73 @ Brown; State Hwy 73 @Oakland		Firm responsibility (prime or sub?)	Sub	
Project number	MA-18-03	Owner’s name	Ascension Parish Government / Dept. of Public Works		
Project location	Prairieville, Ascension Parish		Owner’s Project Manager	Dishili Young, PE Neel-Shaffer, Inc.	
Owner’s address, phone, email	10000 Perkins Rowe, Suite G360 Baton Rouge, LA 70810 225.614.2816 dishili.young@neel-schaffer.com				
Services commenced by this firm (mm/yy)	02/2018	Total consultant contract cost (\$1,000’s)		\$331	
Services completed by this firm (mm/yy)	05/2019	Cost of consultant services provided by this firm (\$1,000’s)		\$54	

Describe the project including the firm’s role and members involved. (Highlight staff to be used in this proposal.)

Quality Engineering & Surveying, LLC (QES) played a critical role in this expansive infrastructure project, delivering essential surveying and mapping services to facilitate strategic turn lane additions and intersection upgrades.

For this project, QES provided comprehensive boundary and topographic surveys that captured detailed data on existing road surfaces, subsurface drainage systems, open ditches, and all utilities, both above and underground. These surveys were pivotal in the design phase, allowing the prime consultant to accurately plan project routes and develop effective intersection improvements. The precision and detail in these surveys ensured that every aspect of the roadwork design was informed by reliable and accurate geographical and structural data.

Additionally, QES produced right-of-way maps crucial for the property acquisition process. These maps were meticulously prepared to meet all Louisiana Department of Transportation and Development (LaDOTD) standards, ensuring legal and regulatory compliance. They clearly established existing property lines and rights-of-way, providing a solid foundation for title take-offs needed for the proposed design changes.

The MoveAscension project showcases QES's expertise in handling large-scale roadwork projects, demonstrating our ability to deliver critical surveying and mapping services that underpin successful infrastructure improvements. Our work on this project highlights our commitment to quality, precision, and compliance, making QES a trusted partner in public infrastructure development.

Firm members involved in this project: Deric J Murphy, PE, LSI, Joseph Ferguson, Joey Pitzer

Firm name	Quality Engineering & Surveying, LLC.		Past Performance Evaluation Discipline(s)*	Survey	
Project name	Chevelle Drive & Sarasota Drive Bridge Replacements			Firm responsibility (prime or sub?)	Sub
Project number	H.013542	Owner's name	GEC, Inc.		
Project location	Baton Rouge, East Baton Rouge Parish, LA		Owner's Project Manager	Jerome Lohman, PE GEC, Inc.	
Owner's address, phone, email	8282 Goodwood Boulevard Baton Rouge, LA 70806 225.612.4282 jlohman@gecinc.com				
Services commenced by this firm (mm/yy)	02/2019	Total consultant contract cost (\$1,000's)			--
Services completed by this firm (mm/yy)	05/2019	Cost of consultant services provided by this firm (\$1,000's)			\$21

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

As part of the Federal Off-System Bridge Program, QES provided the prime consultant with topographic surveys of proposed bridge replacements to be used for design of project routes and bridge crossings, including existing road surfaces, existing bridges(super and substructures), subsurface draining, open ditches, all utilities both above and underground, etc. This established existing property lines and right of ways for possible parcel/servitude acquisition. The topography surveys met LaDOTD requirements and Federal Off-System Bridge requirements.

Firm members involved in this project: Deric J Murphy, PE, LSI, Joey Pitzer

Firm name	Quality Engineering & Surveying, LLC.		Past Performance Evaluation Discipline(s)*	Survey
Project name	LaDOTD La Salle Parish- TSDN		Firm responsibility (prime or sub?)	Sub
Project number	Contract No. 4400008293	Owner's name	LaDOTD (Sub to DewBerry)	
Project location	La Salle Parish		Owner's Project Manager	Masood Rasoulia, PE
Owner's address, phone, email	1201 Capitol Access Road, Room 405-E Baton Rouge, LA 70802 Phone: (225) 379-1433 Email: masood.rasoulia@la.gov			
Services commenced by this firm (mm/yy)	2016	Total consultant contract cost (\$1,000's)		\$17
Services completed by this firm (mm/yy)	02/2018	Cost of consultant services provided by this firm (\$1,000's)		\$17

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

QES provided survey work for a previous Cooperating Technical Partnership between LaDOTD and FEMA. The task was to accurately determine flood risk throughout the state under the Risk MAP program. The Task Order that QES performed work on was for LaSalle parish, as a sub to DewBerry. All processes and deliverables were completed in accordance with FEMA's Standards for Flood Risk Analysis and Mapping. Those guidelines defined the specific implementation of the statutory and regulatory requirements for NFIP flood risk analysis and mapping, and address the performance of flood risk projects, processing of letters of map change and related Risk MAP activities.

Relevant Personnel:

- Deric J. Murphy, PE, LSI, Joey Pitzer

Firm name	ELOS Environmental, LLC		Discipline(s)*		Environmental	
Project name	DOTD IIJA Off System Bridges District 62				Firm responsibility (prime or sub?)	Sub
Project number	Multiple H. No.	Owner's name	DOTD			
Project location	Tangipahoa Parish, LA			Owner's Project Manager	Greg Sepeda (Sigma)	
Owner's address, phone, email		10305 Airline Hwy, Baton Rouge, LA 70816; (225)810-3100; gsepeda@sigmacg.com				
Services commenced by this firm (mm/yy)		9/22	Total consultant contract cost (\$1,000's)			\$129
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)			\$127



The Off-System Bridge Program, established under the Infrastructure Investment and Jobs Act (IIJA), is a key federal initiative aimed at improving bridges not located on the federal-aid highway system. The program is designed to address the needs of local and rural bridges, which often fall outside the primary focus of traditional federal bridge programs. The program is managed at the state level and had \$264 funded specifically for the repair, replacement, or rehabilitation of bridges. The funds were based on priorities and the overall condition of the bridges. **Project Numbers: H.015429, H.015430, H.015431, H.015432, H.015432, H.015433, and H.015434**

ELOS is currently contracted for the DOTD IIJA Off-System Bridge Program. The objective of this program was to replace as many poor condition, off-system bridges as possible by initial screenings of eligible “off-system” structures and create a Preliminary Screening Matrix/Spreadsheet. ELOS conducted appropriate technical and environmental studies and prepared necessary environmental documentation for approval from the Federal Highway Administration (FHWA), in accordance with the provisions of the National Environmental Policy Act (NEPA), FHWA Technical Advisory 6640.8a, and applicable laws, rules, guidance, and regulations. ELOS services encompass a comprehensive range of tasks aimed at ensuring compliance with environmental regulations and facilitating the necessary approvals for infrastructure projects. These services include environmental consulting to advise on regulatory requirements, NEPA (National Environmental Policy Act) compliance to assess and mitigate potential environmental impacts, and agency coordination to engage relevant federal, state, and local authorities. Additionally, services involve preparing section 106 tribal packets for consultation with native American tribes, solicitation of views to gather input from stakeholders, and conducting detailed studies such as wetland studies, cultural resources studies, and cultural resources surveys to evaluate the impact on natural and cultural resources. Surveys for threatened & endangered species and the preparation of a navigability determination packet help ensure environmental protections are met. The process also includes the development of an environmental determination checklist and the acquisition of necessary environmental permits to ensure all legal and regulatory requirements are fulfilled before the project proceeds.

Personnel Assigned: Lucas Watkins, Jay Prather, Brittany Berthelot, Basile Dardar, Caroline Simmons, Sunny Brogan, Bradley Comeaux, Conner Myers, Timothy Soileau, and Christopher Wilson.

Firm name	ELOS Environmental, LLC		Discipline(s)*		Environmental	
Project name	Off-System Bridges 2023 Group 1				Firm responsibility (prime or sub?)	Sub
Project number	Multiple H. No.	Owner's name	DOTD			
Project location	East Baton Rouge Parish, LA			Owner's Project Manager		Dennis Hymel (Crescent Engineering & Mapping, LLC)
Owner's address, phone, email		PO Box 370, Vacherie, LA 70090, LA; 985-257-6581; dennis.hymel@crescentengla.com				
Services commenced by this firm (mm/yy)		04/23	Total consultant contract cost (\$1,000's)			\$34
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)			\$29



The purpose of the Off-System Bridges Program is to replace or rehabilitate structurally deficient or functionally obsolete parish structures in a cost-efficient manner and to provide design, detailed plans, and construction for replacement projects with an emphasis on meeting the minimum design standards set by the Louisiana Department of Transportation and Development (DOTD) and Federal Highway Administration (FHWA). All parishes are eligible to participate in the program. Every two years, participating parishes are provided with a list of qualified structures, estimated replacement costs, specific instructions, and the parishes' available funds.

Project Numbers: H.014993.5, H.014992.5, H.014980.5

ELOS is contracted to provide a range of environmental and regulatory services, including the preparation and management of solicitation of views (SOVs), where we handle solicitation, receipt, and organization of agency and stakeholder feedback and document compliance with various local, state, and federal regulations, including threatened and endangered species, cultural and historic resources, and floodplain mitigation. This documentation provides the foundation for the categorical exclusion of project activities, namely the bridge replacements and related construction activities, to show how the project will not adversely impact people or the environment. ELOS has also assisted with environmental checklists to assess potential project impacts, conducted wetland studies with detailed reporting on environmental conditions and using the FHWA criteria and DOTD report standards, and obtained preliminary jurisdictional determinations, working with regulatory agencies to determine federal jurisdiction over wetland and waterbody areas. Our services ensure compliance with environmental laws and regulations throughout the project lifecycle.

Personnel Assigned: Lucas Watkins, Jay Prather, Brittany Berthelot, Basile Dardar, Brian Fortson, Cory Ricks, Richard Neal, Audrey Arrasmith, Caroline Simmons, Michael Hill, and Sunny Brogan.

Firm name	ELOS Environmental, LLC		Discipline(s)*		Environmental	
Project name	EBR IJA Off-System Bridge Program				Firm responsibility (prime or sub?)	Sub
Project number	Multiple H. No.	Owner's name	DOTD			
Project location	East Baton Rouge Parish, LA			Owner's Project Manager	Dusty Bastion (HNTB Corporation)	
Owner's address, phone, email	450 Laurel St., Ste. 1200, Baton Rouge, LA 70801; 225-368-2800; dbastion@hntb.com					
Services commenced by this firm (mm/yy)		03/23	Total consultant contract cost (\$1,000's)			\$108
Services completed by this firm (mm/yy)		Ongoing	Cost of consultant services provided by this firm (\$1,000's)			\$87



The East Baton Rouge (EBR) IJA Off-System Bridge Program is an initiative aimed at replacing or rehabilitating various bridges throughout East Baton Rouge Parish, Louisiana, funded under the Infrastructure Investment and Jobs Act (IIJA). The primary goal of the program is to improve the safety, reliability, and structural integrity of local bridges, many of which are aging or in need of significant repairs. This program is part of a larger nationwide effort to address critical infrastructure needs, especially in rural and off-system bridge locations that are not part of the primary interstate or state highway systems but are still essential for local connectivity and economic activity. The program focuses on replacing existing bridges with modern slab span bridges, which are often more cost-effective, durable, and easier to maintain compared to traditional bridge designs. These improvements will reduce the risk of bridge closures, enhance

traffic flow, and support the local economy by ensuring safe passage for both vehicles and pedestrians.

Project Numbers: H.015547, H.015548, H.015544, H.015549, H.015545, H.015550, H.015341, H.015551, H.015552, H.015553

ELOS is contracted by HNTB to provide comprehensive wetland delineation and permit application services for the East Baton Rouge Parish (EBR) IJA Off-System Bridge Program. Our team of experts has conducted thorough field surveys to delineate wetland boundaries across the 13 bridge replacement sites, using advanced techniques to assess soil types, vegetation, and hydrological conditions. We have ensured that all findings are accurately mapped and documented, complying with federal and state regulations using the latest FHWA criteria and standards. Based on our wetland delineation, we have prepared and submitted permit applications to the U.S. Army Corps of Engineers, the Louisiana Department of Environmental Quality, and other relevant agencies, securing the necessary approvals for the project. Our services have also included an analysis of environmental impact assessments, where we have evaluated potential wetland impacts and developed mitigation plans to compensate for any unavoidable losses. Throughout the permitting process, we have engaged with agencies, responded to requests for additional information or documentation, and provided ongoing compliance monitoring to ensure environmental protection standards are met during construction.

Personnel Assigned: Lucas Watkins, Brian Fortson, Hunter Perrilloux, Basile Dardar, Cory Ricks, Caroline Simmons, Gwynne Pearsall, Conner Myers, Ricky Henry, and Brittany Berthelot.

18. Approach and Methodology:

Infinity Engineering Consultants is a Metairie, Louisiana-based firm, located approximately 67 miles from the project site. With Infinity's unique multi-disciplinary skill sets and structural engineering experience, the firm is well positioned to act as the project manager and primary design consultant to develop the preliminary, Stage 3, engineering design phase for the Old Columbia Road off-system bridge replacement. The Infinity team has reviewed the background information provided in the RFQ documents and discussed the environmental concerns of the project to deliver the following Approach and Methodology.

Currently, the Old Columbia off-system bridge is a concrete deck bridge that is along a two-lane road. The bridges acts as one of three main arteries traveling north leaving the city center of Frantinton, LA . It should also be noted that a detour around the Old Columbia Bridge along established roadways is approximately four (4) miles. Therefore, crucial to the preliminary plans will be ensuring the Old Columbia bridge will be efficiently and effectively constructed to avoid a prolonged outage of the bridge.

As outlined in the scope of services, beyond engineering design, this contract requires topographic survey, right-of-way sketches, and environmental reporting to be performed. To perform this project, Infinity has assembled a talented team of professionals, all familiar with the local site conditions as well as experience in preparing supporting information for the design of a new bridge. The responsibilities of each team member are as follows:

INFINITY ENGINEERING CONSULTANTS, L.L.C.:

- Project Management, Civil Engineering, Structural Engineering, Cost Estimating

QUALITY ENGINEERING & SURVEYING, LLC.:

- Topographic, Right-of-Way Sketches

ELOS ENVIRONMENTAL, LLC.:

- Wetland Identification and Delineation, Wetlands Finding Report, Environmental Clearance

Infinity Engineering has been integrally involved with the engineering design and reconstruction of several public and private bridge projects. Among those projects similar to this RFQ were the design packages for the LADOTD off-system bridge replacement of bridges along Savanne Road in Houma, LA and North River Road in Tangipahoa Parish. Additionally, Infinity is currently working alongside Arcadis in the replacement design of the Adema Lane off-system bridge in Point-a-la Hache, LA. The design packages Infinity prepared included engineering and environmental regulatory permitting for the preliminary designs for the replacement of these off-system bridges. Therefore, Infinity Engineering is familiar with the standards and practices required when designing an off-system bridge for LADOTD, including AASHTO requirements, flagger safety and cybersecurity training protocols. As a company, we commit to continuing to follow those standards of providing quality design solutions.

Proposed Project Schedule from Project Start Date

(Project Schedule is measured in business days)

- Preliminary Professional Services – Total 157 Days
 - Topographic Survey – 45 Days
 - Right-of-Way Survey & Maps – 85 Days
 - Environmental Services – 75 days
 - Wetland Studies & Environmental Clearance
- Preliminary Design – Total 150 Days
 - Hydraulic Analysis & Design – 20 Days
- Final Design (If Contracted) – 156 Days

Total Without Final Design – **172 Days**

Total With Final Design – **330 Days**

PRELIMINARY PHASE

For the Old Columbia Road bridge replacement project, Infinity's method of execution will include several deliberate steps. We envision that during the preliminary phase we will explore several proven concepts to address the unique design conditions that ultimately led to the poor rating of the previous bridge structures. These will potentially

include designing for conditions that may result from scouring, including armoring and reverting the waterway bottom and providing positive groundwater drainage. These are design concepts that will be fully vetted out.

Some may prove feasible and beneficial, and other concepts may be added as the process evolves. Upon conclusion of the preliminary phase, Infinity will present our findings and recommendations in a report that we will review with DOTD. We intend for the design process to be a collaborative effort between our team and the Owner. With a mutually agreeable concept, we will move forward to the next phase.

The **Preliminary Phase** will be critical as it will serve to firmly identify and quantify the special design conditions that the replacement bridge project must entail. To determine the most logical and feasible solution, during this phase we intend to:

1. Meet with the Owner's representatives to collect record information for the sites; such as:
 - a. Typical bridge traffic, frequency, and magnitude
 - b. Previous construction plans, surveys, and geotechnical studies
2. Obtain data regarding the drainage, and historical flow data as it pertains to the site
3. Review previous geotechnical reports that are on file
 - a. Review the geologic history of the region and site
 - b. Devise conceptual solutions for a replacement bridge structure as it pertains to soil matters
4. Coordinate with the surveyor (BFM) and the design team to:
 - a. Perform a topographic survey of the existing waterway, embankment, and roadway near the bridge to identify and study the surface profiles of the site
 - b. Perform a topographic survey to locate existing features
 - c. Prepare a Right of Way sketch
5. Perform a hydraulic design to determine drainage alternatives
6. Prepare documentation for solicitation of views and categorical exclusion
7. Prepare permit drawings for use in obtaining USACE Environmental Clearance permits (ELOS), as required
8. Prepare a Wetland Study (ELOS)
 - a. Conduct ground level investigation to verify the right of way
 - b. Locate wetlands on a quadrangle sheet and layout map
 - c. Document soil samples
 - d. Prepare Wetland Determination Data Form with GPS sample point locations
9. Develop a preliminary design for the replacement bridges based on the data collected and research performed in the preceding steps
10. Prepare an estimated construction cost estimate for the proposed design
11. Prepare a preliminary report summarizing the above documentation and preliminary plan

Environmental Clearance & Wetland Delineation

For the DOTD (Department of Transportation and Development) Off-System Highway Bridge Program, ELOS will provide comprehensive services to ensure full compliance with NEPA (National Environmental Policy Act), environmental permitting, wetlands delineation, Section 106 Cultural Resources review, and Solicitation of Views (SOVs). ELOS will employ a systematic, multi-disciplinary approach to ensure that the bridge replacement project complies with all federal, state, and local environmental requirements. Our approach and methodology for these services will be as follows:

NEPA Compliance

To ensure full NEPA compliance for the Old Columbia Road bridge replacement project, ELOS will begin with Solicitation of Views letters to document the project's scope and potential environmental impacts. This process will include the collection of baseline environmental data, followed by an analysis of potential impacts in consultation with local, state, and federal agencies. ELOS will conduct a comprehensive environmental evaluation, which will also involve an endangered species survey, specifically including acoustic identification of eastern bat species (Northern Long-Eared Bat, the Little Brown Bat, and the Tricolored Bat) to ensure that any potential impacts to protected species are thoroughly assessed. Our approach will incorporate scoping and public involvement, as well as close coordination with federal, state, and local agencies

to evaluate significant impacts. ELOS is an expert in guiding clients through the often-complex NEPA process, evaluating the environmental, social, and economic effects of proposed actions, and assisting in minimizing impacts while facilitating NEPA compliance. As part of the NEPA requirements, ELOS will coordinate all public review and comment periods related to those evaluations. Additionally, we will develop mitigation strategies and prepare all necessary documentation to ensure that all potential environmental impacts, including those on endangered species, are appropriately addressed, and that the project proceeds in line with NEPA requirements. ELOS will also prepare a Categorical Exclusion (CE) where no significant environmental impacts are determined based on past experience or established criteria. This process will include a desktop analysis, reviewing existing data, environmental records, and relevant studies to determine if a proposed action qualifies for a CE, without the need for extensive field studies or additional environmental documentation.

Wetlands Delineation

ELOS specializes in conducting wetland delineations and jurisdictional determinations to help understand the extent to which the regulatory framework will impact projects. Understanding the extent and jurisdictional status of wetlands is essential for compliance with environmental regulations. Our wetlands delineation service will involve conducting field surveys in accordance with U.S. Army Corps of Engineers guidelines to identify and delineate wetlands within the project area. This will include an assessment of wetland boundaries, hydrology, vegetation, and soil types to determine the jurisdictional status of any wetlands present. Our methodology includes preparing a Wetlands Delineation Report, using the latest FHWA criteria and the DOTD report standards, which will document the findings and assess any impacts to wetlands within the project footprint. Should unavoidable impacts be identified, we will propose mitigation strategies, including wetland restoration or compensatory mitigation, to ensure regulatory compliance and minimize ecological impact. Our team has decades of combined experience in wetland field data collection and delineation and specializes in accurately identifying and mapping wetlands in typical and difficult terrain. With a comprehensive wetland assessment, we can advise on how to avoid or minimize regulatory involvement once the jurisdictional footprint of a project has been identified.

ENGINEERING DESIGN PHASE – PRIMARY PLANS

Infinity's approach to the development of the Stage III preliminary plans for the Old Columbia Road bridge is as follows:

- **Structure Type Selection** - Evaluate feasible bridge types, with consideration of environmental impacts, material costs, and maintenance requirements
- **Conceptual Layouts** – If necessary, develop alternative design layouts for the new bridge, including roadway alignment, approach grades, and traffic accommodations during construction.
- **Cost Estimation** - Preliminary budget based on conceptual designs, considering demolition, construction, utility relocation, and contingencies
- Development of Preliminary Engineering Plans
 - o Bridge geometry and cross-sections
 - o Foundation and substructure recommendations
 - o Roadway alignment and profiles
 - o Utility relocation plans
 - o Detour and staging plans
- **Compliance Verification** - Ensure designs comply with LADOTD Bridge Design and Evaluation Manual and AASHTO LRFD Bridge Design Specifications
- Quality Assurance and Review
 - o Internal Review: Conduct a peer review within the design team to ensure technical accuracy and adherence to standards
 - o LADOTD Submittal: Submit preliminary engineering plans and documentation for LADOTD review, addressing comments or requests for revisions promptly

ADDITIONAL PROJECT REQUIERMENTS

Cyber Security: As a company, Infinity understands the importance of keeping public/private clients' information confidential and safe. Maintaining sound practices and education in cyber security is the best way to keep digital documents safe from potential cyber threats. Infinity has a program in place to deliver monthly employee information seminars that cover a wide range of best practices to ensure workplace safety. These seminars have touched on the subjects of cyber security. If called upon for this contract, Infinity will ensure additional cyber security training will be provided to the Infinity employees who have access to DOTD systems and information.

Work Zone Training: Infinity is committed to maintaining safe working conditions. Prior to contract execution, Infinity will ensure all staff and sub-consultants who are working on site hold the appropriate LADOTD approved work zone training certifications.

State Funding: Infinity recognizes that the project will be subject to State and federal funding guidelines. To date, Infinity has completed multitudes of projects that were state and/or federally funded through DOTD, LED, FTA, FEMA, Community Development Block Grants, etc. Our staff is familiar with providing the documentation and communication necessary to meet the requirements of these agencies.

Public Agencies: Infinity Engineering has extensive experience working with Public agencies, in the role of prime consultant, successfully completing projects exclusively with our own forces, managing teams of several consultants, or as a subconsultant. We are familiar with typical procedures for design and contractual policies. We carry professional and general liability insurance that often exceeds that required by public agencies.

Capacity: Infinity's current workload is well-suited to provide engineering support services to Jefferson Parish. At the time of submittal, Infinity has sixteen projects within the 75-100% construction completion, including the Jefferson Parish W. Metairie Ave Restoration, Facility Planning & Control Bayou Segnette Drainage Pump Station, and S&WB West Power Complex. The completion of these projects will allow for Infinity's engineers to shift their focus towards the 6th Street Bridge replacement project, as the firm currently does not have a backlog of project work. Several of Infinity's designs are entering the final submittal phase.

Reputation and References: Infinity prides itself on customer satisfaction accomplished through producing good work for every project. We recognize that as consultants, the most important element of our existence is our reputation. Infinity has a great track record for repeat customers and referrals and shares a favorable reputation in the local engineering and business community. As evidence of that, it is best to point to the kind words written on our behalf in both the public and private sector that speak to Infinity's professionalism, quality of work, respect for cost and budget, and schedule.

Ken Dugas, P.E., Chief Engineer Plaquemines Parish - "Infinity completed a very thorough drainage study to justify expanding Ollie Drainage Pump Station. The \$16,500,000 station addition was constructed and has performed, as designed, through several heavy rain events and hurricanes. Infinity has designed several street and utility infrastructure improvements...They've proven to be good stewards of public funds. I would highly recommend Infinity."

Tim Mathison, Former CAO of the City of Slidell - "Both of these roadway projects (Kostmayer and Sgt. Alfred Streets' Reconstruction) were completed on time and within budget. Infinity's employees were professional, knowledgeable, and a pleasure to work with. They were responsible with the budget and cognizant of the needs of the City throughout both projects. I would recommend Infinity for their design capabilities, as well as their professional approach to project management."

Billy Nungesser, Lt. Governor and Former Plaquemines Parish President - "Based on our familiarity with Infinity Engineering through their design of the Ollie Drainage Pump Station Expansion...we had the confidence in this firm to provide the expertise necessary to responsibly utilize public funds. My directors relayed that their designs were completed in a timely manner....and was committed to providing Plaquemines Parish with the best possible service. I would recommend Infinity Engineering."

Minimum Personnel Requirements: Infinity has ensured our team outlined in the proceeding 24-102 form meets and exceeds the minimum personnel requirements as outlined in LADOTD's project advertisement. The individuals who satisfy those minimum personnel requirements include:

- Raoul V. Chauvin, P.E. and William Thomassie, P.E. are Infinity's principal partners who are registered professional engineers in the State of Louisiana
- Rachel Kenney, P.E. and Cindy Gallo, P.E. are responsible members of the Infinity team who are currently registered in the State of Louisiana as a professional engineer in civil engineering.
- Ricardo Contreras, P.E. will serve as the project manager and holds over five years of experience in responsible charge of bridge design as a registered professional engineer in the State of Louisiana
- Steven Brett Fitzgerald, PLS is Quality Engineering & Survey's professional land surveyor registered in Louisiana with over five years of experience
- Lucas Watkins is ELOS Environmental's environmental professional with at least five years of experience in wetlands delineation

19. Workload:

For all contracts where a firm on the team is a prime consultant or sub-consultant and where **a)** the consultant selection was made by DOTD, and **b)** a contract was executed by the consultant and the contracting entity by the date the advertisement for this proposal was posted, list all work meeting the following criteria:

- 1) one of the team's firms is responsible for the performance of the work;
- 2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
- 3) the work has not yet been performed and invoiced; and
- 4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.

List only the portion of the fees attributable to firms on the team.

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Infinity Engineering Consultants, L.L.C.	Bridge	Contract: 4400025022 State: H.015334.5	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program District 2	\$62,500
Infinity Engineering Consultants, L.L.C.	Bridge	Contract: 4400021516 State: H.013818, H.013818, H.011986, H.012734	Moveable Bridges (5) Pointe Coupee, Lafourche, and Terrebonne Parishes	N/A
Quality Engineering & Surveying, LLC.	N/A	N/A	N/A	N/A
ELOS Environmental, LLC	Environmental	44-0019337 / H.014245	LA-119 Bayou Pierre and Creek Bridges	\$15
ELOS Environmental, LLC	Environmental	44-0019337 / H.014246	LA-1199 Creeks & Spring Creek	\$19
ELOS Environmental, LLC	Environmental	44-0019337 / H.014247	LA-399 Creeks, Little 6 Mile Creek, Flat Branch	\$45
ELOS Environmental, LLC	Environmental	44-0019337 / H.014248	LA-124 Creeks, Broke Leg Bayou, Boggy Bayou	\$14
ELOS Environmental, LLC	Environmental	44-0019337 / H.014248.5	LA-124 On site Detours - Supplemental Task Order	\$308
ELOS Environmental, LLC	Environmental	44-0019337 / H.014249	LA-126 Creek	\$849
ELOS Environmental, LLC	Environmental	44-0019337 / H.014242.5	LA-124 Bridges/Detours – Supplemental Task Order	\$21,473
ELOS Environmental, LLC	Environmental	44-0019337 / H.014250	LA-577 Bull Bayou and Creek Bridges	\$38
ELOS Environmental, LLC	Environmental	44-0019337 / H.014268	LA-4 Creeks, Bear, Squirrel, Sugar, Bill's and Lost Creek	\$30
ELOS Environmental, LLC	Environmental	44-0019337 / H.014268.5	LA-4 Creeks, Bear, Squirrel, Sugar, Bill's and Lost Creek - Additional Tasks	\$393
ELOS Environmental, LLC	Environmental	H.014362	Lake Road in St. Tammany Parish	\$22,877
ELOS Environmental, LLC	Environmental	H.015429	Carroll Ave, Middle Colyell Creek - IIJA Off-System Bridges	\$61
ELOS Environmental, LLC	Environmental	H.015430	Hood Rd, Middle Colyell Creek - IIJA Off-System Bridges	\$51
ELOS Environmental, LLC	Environmental	H.015431	Sawmill Rd, Unnamed Creek - IIJA Off-System Bridges	\$53
ELOS Environmental, LLC	Environmental	H.015432	M. Williams Rd, Spring Creek - IIJA Off-System Bridges	\$53
ELOS Environmental, LLC	Environmental	H.015433	George Jenkins Rd, Berrys Creek - IIJA Off-System Bridges	\$64
ELOS Environmental, LLC	Environmental	H.015434	Mitch Rd, Peters Creek - IIJA Off-System Bridges District 62	\$49

ELOS Environmental, LLC	Environmental	Several H Numbers	DOTD Stage 0 IDIQ-LA 3089 Serve RD /LA 70 Up	\$2,760
ELOS Environmental, LLC	Environmental	44-0019337 / H.014247.5	LA-399 Bridges – Supplemental Task Order	N/A
ELOS Environmental, LLC	Environmental	44-0019337 / H.014245.5	LA-119 Bayou Pierre and Creek Bridges – Additional Tasks	N/A
ELOS Environmental, LLC	Environmental	H.015009	OSBR West Metairie Ave Bridge, South Suburban Canal	N/A
ELOS Environmental, LLC	Environmental	44-0019337 / H.014242	LA-124 Big Branch, Sandy, Godfrey, Beech Bridges	N/A
ELOS Environmental, LLC	Environmental	44-0019337 / H.014243	LA-472 Indian and Big Bear Creek	N/A

(Add rows as needed)

DO NOT SUM

*** The only disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.** If a firm has more than one discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per discipline.

**** Round to the nearest dollar. Do not round to the nearest thousands.** If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. **NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE.** LEAVING THE “REMAINING UNPAID BALANCE” COLUMN BLANK IS NOT ACCEPTABLE.

20. Certifications/Licenses:

If the advertisement requires submission of licenses and/or certificates, include them here. **Otherwise, leave this section blank.**

21. QA/QC Plan:

If the advertisement requires submission of a QA/QC plan, include it here. **Otherwise, leave this section blank. If a QA/QC plan is included in this section and was not required by the advertisement, it will be redacted.**

Section 1 - Introduction

1.1 Defining Plan Quality

The dictionary defines **Quality Control** as the inspection, analysis and action required to ensure quality of output; the operational techniques and the activities used to fulfill and verify requirements of quality; a procedure for keeping quality of inputs or outputs to specifications. In accordance with LaDOTD expectations, the quality plan shall strive to shape and guide the product, and be measured against the following characteristics:

- **Complete:**
 - 1) The plans will be an accurate and thorough representation of the existing project site and terrain features.
 - 2) The plans will be an accurate and thorough representation of the proposed project features and details to be constructed.
 - 3) The plans will be supported by a thorough and detailed documented development process.
 - 4) The plans will be developed with the active involvement of all affected parties and developmental stage owners throughout all stages of development.
- **Consistent:** The plans will be consistent with other plans developed for LADOTD and will comply with all standards and guidelines set by the LADOTD design manuals, AASHTO design guidelines and electronic standards.
- **Clear:** Instructions provided in the plans and specifications will leave little room for subjectivity.
- **Correct:** Preparation of the plans such that the delay, postponement, or cancellation of the project letting is avoided.
- **Constructible:** The plans will present a project that can be constructed and will not require change orders attributable to the designer.

It is Infinity's responsibility to maintain and enforce the quality plan as described in this document.

1.2 Definition of Terms and Abbreviations

The use of some key terms used in this document will be understood to have the following meanings:

Quality Control (QC)

Quality Control is defined as the operational techniques and the activities used to keep the quality of inputs or outputs to specifications; to fulfill and verify requirements of quality.

Quality Assurance (QA)

Quality Assurance refers to those actions, procedures, and methods employed at the management and senior technical levels to observe and ensure that prudent quality procedures are in place and are being carried out and that the desired result of a quality product is achieved.

Designer

The designer is the engineer directly responsible for the development of design calculations, drawings, special provisions including Non-Standard items, and cost estimate. The designer will be licensed by the State of Louisiana as a professional engineer or certified as an engineer intern. The detailer is the individual directly responsible for the creation of CAD drawings. During the design process, the designer must follow the design criteria established for the project. Bridge type, size, and location (T, S & L) must be developed first and approved by the supervisor or team leader prior to proceeding with the design of structural components.

The design calculations shall be organized and maintained in a standard calculation book format. The calculation book checklist is included in Appendix B of **LADOTD Bridge Design and Evaluation Manual (BDEM)**. The designer must communicate with the detailer and supervise the detailing work to ensure that the drawings adequately and accurately present the design information. Both the designer and the detailer shall check their own work and minimize errors.

Checker

The design checker is the engineer responsible for performing a full technical review of the design calculations, drawings, special provisions including Non-Standard items, and cost estimate. The design checker must be licensed by the State of Louisiana a professional engineer or certified as an engineer intern; however, if the designer is an engineer intern, the design checker must be a professional engineer. The detail checker is the individual responsible for performing a full review of the CAD drawings.

The detail checker can be a designer or a detailer. The design checker and detail checker shall not be the ones who perform the original design and detailing. During the design check process, the design checker must verify the accuracy of the designer's calculations, pay items, quantities, special provisions including Non-Standard items, and cost estimate. The design checker may perform a redline check of the designer's calculations or produce an independent set of calculations and compare the results; the supervisor or team leader shall determine which method to use depending on the complexity of the project. Regardless of the checking method employed, the designer's calculations are the calculations of record and must be updated to correct any errors or omissions discovered by the design checker. The calculations of the design checker should also become a part of the calculation of record when independent checking calculations are produced. The design checker should also ensure that the drawings adequately and accurately present the design information.

Reviewer

The reviewer is the engineer responsible for ensuring that the QC process as described in Step 4 is complete and the design calculations, drawings, special provisions, and cost estimate are in accordance with LADOTD Bridge Design practices, policies, and procedures. The reviewer must be licensed by the State of Louisiana as a professional engineer and must have substantial experience in the design of similar structures. During the quality assurance process, the reviewer shall perform a cursory review of all documents in the QA information package submitted by the designer. This review should focus on the constructability of the plan details; areas of critical structural importance; areas where, based on the reviewer's experience, mistakes may be typically found; and areas that may be new to the design practice. The reviewer may, but need not, produce independent calculations to verify submitted information. The reviewer shall provide feedback to the designer and resolve all issues. Upon completion of the QA process, which shall be no later than the 98% final plans stage, the design calculations, plan details, special provisions, and cost estimate shall be considered as final. At this point, the QC/QA certification as included in Appendix D shall be signed by the designer, design checker, detailer, detail checker, and reviewer.

Engineer of Record (EOR)

The EOR is the engineer responsible for supervision and/or preparation of plans, sealing calculations, plans, and special provisions if required. The EOR must be licensed by the State of Louisiana as a professional engineer and must have commensurate experience in the design of similar structures. The EOR can be the designer, the design checker, the reviewer, or the supervisor/team leader who is directly involved in the project design activities. The responsibilities of the EOR are as follows:

- 1) Ensure the QC/QA certification is signed by all responsible parties. Ensure the geotechnical design information shown on bridge plans is co-stamped by a Geotechnical Engineer and the hydraulic information shown on bridge plans is co-stamped by a Hydraulic Engineer. If practical, the hydraulic information and geotechnical information should be presented on separate sheets to reduce the engineering stamps on a sheet. When more than one engineering stamp is required on a sheet, the responsibilities for each engineering stamp shall be clearly defined.
- 2) Assemble design calculations from all designers including the final geotechnical analysis report and the hydraulic report from the geotechnical engineer and the hydraulic engineer, finalize the calculation book, and seal the cover sheet of the calculation book.
- 3) Ensure the names of the designer, design checker, detailer, detail checker, and reviewer are correctly shown on the title block of each plan sheet. Stamp all plan sheets or designate a designer, design checker, or reviewer who shall be licensed by the State of Louisiana as a professional engineer to stamp the

sheets developed under their supervision. The EOR must stamp the general notes sheets.

- 4) Ensure all special provisions are accurately shown on the construction proposal. The special provisions are typically stamped by the Specification Engineer as part of the construction proposal; however, if the Specification Engineer is not qualified or not willing to stamp the special provisions, the EOR must stamp these provisions.

Phase Review

Phase Review refers to the formal review by various disciplines at various stages of the plan development process.

Project Manager (PM)

The PM is the person responsible for the planning, coordination and controlling of a project from inception to completion, meeting the project's requirements and ensuring that each project is completed on time, within budget, within scope and to required quality standards.

Project Quality Control Plan

The methods and processes defined in this manual will serve as the Project Quality Control Plan (PQCP) for each project.

Quality Assurance Certification

Quality Assurance Certification refers to a signed statement by the Project Manager certifying that a written, pre-approved Project Quality Control Plan is in place and has been adhered to.

1.3 Purpose

This Quality Control / Quality Assurance Manual is intended to establish a benchmark for effective development of quality control and to assure that quality control has been effectively implemented. The manual provides for coordinated processes which will assist project development by providing mechanisms for:

- 1) Identifying design considerations which DOTD experience has shown repeatedly require specific attention.
- 2) Providing helpful checklists developed by each major discipline for each phase of project development.
- 3) Providing sufficiency checklists which enumerate the items and the documents required to be submitted with phase submittals. Completion and submittal of the checklists required with each phase review is the responsibility of the designer.

The ***LADOTD Bridge Design and Evaluation Manual (BDEM)*** has the objective of obtaining uniformity and establishing standard policies and procedures in the preparation of engineering and construction plans for bridge and highway structures in Louisiana. The BDEM will be followed for all LADOTD projects regardless of project delivery methods (Design-Bid-Built, Design-Built, or other methods). Any proposed deviations from the BDEM will require approval of the LADOTD Bridge Design Engineer Administrator before implementation. Detail justifications will be submitted along with the request. Approved deviations from BDEM shall be noted on the design criteria of the project and contract plans as appropriate.

1.4 Objective

The main objective of the Quality Control process for design projects is to provide a mechanism by which all construction plans can be subject to a systematic and consistent review. The outcome of the review should create a set of quality project plans, which should be substantially error free.

A secondary objective of the Quality Control process is to provide for a well-documented “trail” of the design process. A properly documented project file should be a by-product of the quality control process. Another secondary objective of the Quality Control process is to provide information feedback from reviews to the designers.

1.5 Quality Control Processes

The Quality Control process includes:

- 1) Quality planning, training
- 2) Providing clear decisions and directions
- 3) Constant supervision
- 4) Immediate review of completed activities for accuracy and completeness
- 5) Documenting all decisions, assumptions, and recommendations.

In the construction plan development process, it is the clear responsibility of the designer to ensure all project elements are economical, accurate, properly prepared, coordinated, checked, and completed.

All designers and reviewers must recognize that quality is the result of several processes. It requires many individuals performing many appropriate activities at the right time during the plan's development process. Quality Control does not solely consist of a review after a product is completed. Design personnel shall follow established design policies, procedures, standards and guidelines in the preparation and review of all design products.

Section 2 - Project Quality Control Requirements

The methods and processes defined in this manual will serve as the Project Quality Control Plan (PQCP) for each project. The Project Quality Control Plan details the proposed methods or processes of providing quality control for all work products. The plan shall include, but is not limited to, the following areas:

- 1) Organization
- 2) Quality Control Reviews
- 3) Proposed method of documentation of comments, coordination responses and quality assurance records; and
- 4) Quality Assurance Certification

2.1 Plans Development Requirements for Review

Properly completed QA Checklists for all applicable disciplines, signed and dated by the checker, will be submitted with the review prints to demonstrate that all items were checked.

2.2 Conformance to CAD Standards

All plans must meet the CAD/Drafting standards as specified in the engineering contract.

2.3 Plans Reviews

In addition to plans checking, the designer will conduct a design review of all documents prior to submitting the documents to the LADOTD. This review shall include, as a minimum, the following activities:

- 1) Compliance with project requirements
- 2) Technical accuracy and adequacy
- 3) Compatibility with other associated project documents
- 4) Compliance with previous review comments

2.4 Design Documentation Requirements

To facilitate QC reviews of each project, the designer will prepare a written "Project Design Criteria Report" at the onset of the work.

Section 3 - Organization

3.1 Process

The team must be committed to the QC/QA process to ensure a quality product. The reviewing sections and individuals have specific responsibilities as part of the process.

3.2 Quality Control Responsibilities

The Project Manager is the person responsible for the planning, coordination and controlling of a project from inception to completion, meeting the project's requirements and ensuring that each project is completed on time, within budget and to required quality standards. The PM ensures that all phase reviews have occurred and have been completed, that all comments have been satisfactorily addressed and that all forms and checklists have been completed by the appropriate personnel. The PM is ultimately responsible for each project's adherence to the quality control plan.

The Engineer of Record is responsible for accuracy and completeness of the plans and related designs prepared for the project. The designer is responsible for the quality of work of each person involved in the efforts to bring individual projects to production readiness.

Section 4 - Quality Control Reviews

4.1 Design Review Requirements

Design review checklists included in this guideline are intended to assist the designer in preparing an adequate submittal. The sufficiency checklists included in the guideline establishes the submittal requirements which must be met to satisfy the documentation requirements for each project.

4.2 General

The reviewer will be an experienced engineer who was not actively involved in the preparation of the product.

4.3 Phase reviews

4.3.1 Review process

At each submittal stage, the Project Manager will review the submittal for the degree of completeness required by that phase. Plans will be returned to the designer if they are incomplete, which could cause delays to the project's schedule.

4.3.2 Review Reports

Comments from phase reviews can be in the form of marked-up plans, meeting minutes (as in a plan-in-hand review meeting) or review memoranda. It is the responsibility of each reviewer to ensure that their comments are submitted to and recorded with the Project Manager. It is the Project Manager's responsibility to compile comments, document the comments and distribute the comments to the designer and others if necessary. It is then the designer's responsibility, in consultation with the Project Manager, to review the comments and to determine how each comment will be addressed. The designer will prepare a formal response to the PM stating how the comment will be addressed. The Project Manager will forward these responses to the appropriate reviewer and will ensure that all comments and responses have been documented in the project files. It is the designer's responsibility to ensure that comments are incorporated into the construction plans as appropriate.

4.3.3 Checking Drawings

Drawings are prepared under the direction of an assigned designer. They are developed progressively by an interactive process using sources of information such as survey data, reports, record data, preliminary sketches, samples, official maps, etc., in conformance with the requirements, design criteria, and standards and guidelines required by DOTD.

Section 5 - Method of Documentation of Comments, Coordination and Responses

5.1 Documentation of Comments and Responses

All comments made by phase reviewers shall be recorded either by copy of memos, e-mail, letters and/or marked plans received from the reviewers. In the event that comments are received through meetings with reviewers, there shall be minutes prepared that summarize the comments received. Copies of all comments and responses shall be kept in the project files.

5.2 Requests for Changes to the Scope

The PM and the designer shall evaluate comments or requests that are not covered in the “Final Project Scope.”

Section 6 - Quality Assurance

6.1 General

QA does not include only periodic reviews to ensure compliance with the QC process, but also includes review of several other established processes. The Project Manager shall ensure that appropriate levels of review (and cooperativeness in the review process) have occurred for:

- 1) Constructability
- 2) Bidability
- 3) Value Engineering
- 4) Project Documentation

QA also incorporates a general review of personnel to ensure an acceptable level of expertise is maintained for quality design products. Communication is also a vital element in all processes. QA includes the review of the level and quality of communications and documentation accomplished during the various processes.

References

Louisiana Department of Transportation and Development *“Construction Plans Quality Control/Quality Assurance Manual”*

ELOS Environmental QA/QC Plan

ELOS implements and manages quality assurance and quality control (QA/QC) throughout the project. ELOS evaluates documents, plans, desktop research, and fieldwork using a detailed process with multiple steps that occur throughout the life of the project. Quality control review occurs on all projects and submittals. ELOS provides planned systems of reviews and spot-checks by senior staff members. The multi-step review process is used before each submittal. ELOS provides quality assurance after quality control is complete, but before submission of the final product.

ELOS’ QA/QC process evaluates the policies, processes, procedures, and systems to ensure the quality of work is in accordance with contract requirements, regulations, and jurisdictional requirements. The objective is to enhance the management, planning, design, construction, maintenance, and operation of the project and ensure a safe and uniform operational and structural capacity throughout the duration of the project. The process establishes efficient, safe, and timely completion of projects. ELOS will identify and prescribe the systems, methods, procedures, and responsibilities for project activities necessary to achieve the standards of quality according to the contract agreement and local regulations. ELOS provides a 5-step QA/QC process.

1. Project Team Structure and Documentation

ELOS establishes a clear organizational structure for the project team, ensuring all roles and responsibilities are clearly defined and accessible. This structure facilitates traceability of activities across the environmental assessment and permitting process, including NEPA compliance, wetland delineation, and cultural resource management.

2. Role and Responsibility Assignment

Once roles are assigned within the project team, ELOS defines the specific duties and authorities for each team member. This includes the assignment of which members will perform which tasks and what can be done concurrently or consecutively using the FHWA and NEPA standards.

3. Scope of Work and Quality Control

The project team establishes a detailed scope of work for each phase of environmental services, including NEPA compliance, wetland delineation, and environmental permitting. ELOS also develops a comprehensive QA/QC checklist for each service to ensure that all regulatory requirements and best practices are consistently followed for documentation and reports or other deliverables.

4. Inspection and Review Phases

The quality control plan outlines key inspection phases throughout the project. This includes pre-execution meetings to review project specifications, initial assessments, interim reviews, compliance testing, and post-execution inspections. If deficiencies are identified, additional corrective action and re-examinations will be conducted to ensure all environmental standards are met.

5. Quality Control, Testing, and Verification

Project managers oversee the quality control process, including reviewing schedules, results, and environmental data associated with NEPA compliance, wetland delineation, and surveys. They ensure that proper documentation, submittals, and deficiency tracking are managed effectively. The final project submissions undergo a thorough review by Senior Project Managers and Upper Management to confirm compliance before they are submitted to the relevant authorities.

22. Sub-consultant information:

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank.

Firm Name (Name must match <u>exactly</u> as registered with Louisiana's Secretary of State (SOS): <u>including punctuation, include screenshot(s) from SOS at the end of Section 20</u>)	Address	Point of Contact and email address	Phone Number
Quality Engineering & Surveying, LLC	18320 LA-42 Port Vincent, LA 70726	Lance LaPlace llaplace@qesla.com	225-698-1600
ELOS Environmental, LLC	607 W. Morris Ave. Hammond, LA 70403	Lucas Watkins lwatkins@elosenv.com	985-662-5501

(Add rows as needed)

23. Location:

If location is an evaluation criterion for this advertisement (see page 2) and the prime consultant intends to establish a local presence, describe the plan for doing so. **Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the Evaluation Criteria section of the advertisement.**