WAGGONER

Statement of Qualifications
Parish Contract No. 2025-118
State Project No. H.003855
Federal AID Project No. H003855

Entity Contract For Congestion Relief Winfield Road Bossier Parish Police Jury

June 25, 2025

Submitted by:
Waggoner Engineering, Inc.

June 25, 2025

Bossier Parish Police Jury
204 Burt Blvd
Benton, LA 71006

RE: Request for Qualifications for Entity Contract for Congestion Relief Winfield Road, Bossier Parish Police Jury

Dear Selection Committee:

Waggoner Engineering, Inc. (Waggoner) is excited to submit this qualifications package which demonstrates our capability and interest in providing engineering services for the Congestion Relief for Winfield Road project. At Waggoner, we take pride in delivering infrastructure solutions that not only meet the technical and regulatory requirements, but also prioritize safety, sustainability, and long-term value for the communities we serve.

With nearly 50 years of experience, we have managed a wide range of transportation projects, from conceptual planning stages to design and plan development, and ultimately through the construction phase. Our portfolio includes extensive experience in roadway capacity projects involving new corridors, widenings, and heavy drainage considerations. We also have expansive experience in designing bridges of various types, scales, and complexities. Whether addressing preservation needs for aging infrastructure or introducing much needed additional capacity for the existing local transportation network and for potential new development, our multidisciplinary team ensures that each project is approached with precision, creativity, and a commitment to excellence.

Our firm is composed of transportation, civil, and environmental engineers; planners; registered land surveyors; certified floodplain managers; economic development professionals; technicians; and support personnel. From this diverse pool of expertise, we have assembled a project team specifically selected to meet Bossier Parish Police Jury's needs. The unique qualifications relevant to the scope of this new corridor project are detailed in the following pages. Additionally, we have partnered with high quality subconsultants to ensure our team not only meets but exceeds the Parish's expectations.

We trust that the information provided in this Statement of Qualifications is responsive to your request, and we look forward to performing engineering services for the Congestion Relief on Winfield Road.

Sincerely,

Robert J. Lear, Jr., PE, PLS
Vice President
Waggoner Engineering, Inc.

Sections 1-10

BBPJ Standard Submittal Form

Waggoner Engineering, Inc.
Lead Design Firm

BBPJ Standard Submittal Form

(Revised December 12, 2024)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

Firm should fill in the BPPJ Standard Submittal Form provided without altering the text provided in the form. Firm should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

1. Contract Title as shown in the advertisement	Entity Contract For Congestion Relief Winfield Road Bossier Parish
2. Contract Number(s) if shown in the advertisement	Parish Contract No. 2025-118 State Project No. H.003855 Federal AID Project No. H003855
3. State Project Number(s), if shown in the advertisement	Parish Contract No. 2025-118 State Project No. H.003855 Federal AID Project No. H003855
4. Firm Name (as registered with the Louisiana Secretary of State where such registration is required by law)	**Waggoner Engineering, Inc.**
5. Firm License Number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS or American Institute of Certified Planners (AICP or other professional regulatory board, as applicable) if registration is required under Louisiana law)	**EF.0002553** **VF.0000457**
6. Mailing Address	10305 Airline Highway Baton Rouge, LA 70816
7. Name, title, phone number, and email address of firm's Contract Point of Contact	10305 Airline Highway Baton Rouge, LA 70816
8. Name, title, phone number, and email address of the official with signing authority for this proposal	Robert J. Lear, Jr., PE, LSI Vice President robert.lear@waggonereng.com 225.298.0800

9. This is to certify that all information contained herein is accurate and true, and that I presently have sufficient staff to perform these services within the designated time frame.

   In accordance with LA R.S. 39:1602.1, 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.

   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.

Signature (shall be the same person as #8):

Date: 6/25/2025

10. 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.

Firm(s)	Firm Percent
APS	10%
Vectura	10%
Total DBE Participation	20%

Section 11

Organizational Chart

Waggoner Engineering, Inc.
Lead Design Firm

11. Organiztional Chart

KEY
Waggoner Engineering, Inc.
Lazenby & Associates, Inc.
Vectura Consulting Services, LLC
APS Engineering & Testing, LLC
(#) Meets MPR Criteria
✪ Meets Work Zone Training Requirements
▶ Meets Traffic Engineering Process & Report Training Requirements
DISCIPLINE LEAD (CAPS & BOLD)

BOSSIER PARISH POLICE JURY

PRINCIPAL-IN-CHARGE
Miles Williams, PE (1)

QA/QC
Paul Foley, PE

PROJECT MANAGER
Robert Lear, PE, LSI (2, 3) ✪

SURVEY & ROW SERVICES
PAUL FRYER, PE, PLS (7)
Ronald Riggin, PE, PLS
Randy Hammons, PE
James Ellinburg, PE
Noah Smpognaro, PE
Blaine Holloway, EI

HYDRAULICS/DRAINAGE
BRYAN HARMON, PE
Steven Gilliam, PE
Gage Spell, LSI

UTILITY COORDINATION/SUE SERVICES
JOSHUA RENARD, PE ✪
Brandon Bollich, EI

BRIDGE DESIGN
ANDREW WINDMANN, PE (4,5)
Joshua Gonya, PE
Joshua Oliver, PE

TRAFFIC DESIGN
SHEELAGH BRIN FERLITO, PE, PTOE ✪ ▶
Laurence Lambert PE, PTOE, PTP ✪ ▶
Reece Rodrigue, PE, PTOE, RSP1 ✪ ▶
Kristen Farrington, PE, PTOE, RSP1 ▶

GEOTECHNICAL SERVICES
SERGIO AVILES, PE (6)
Surendra Pathak, PE
Sairam Eddanapudi, PE

ROAD DESIGN SERVICES
ALEX FARR, PE ✪
Robert Lear, PE, LSI (2, 3)
Kelsie Bankston, PE
Charlotte Gremillion, PE
Thomas Grass, PE

ENVIRONMENTAL/PERMITTING SERVICES
ERIC JEFFERSON, PE

Firm Size

DOTD Job Classification	Number of Personnel Committed to this Contract	Total Number of Personnel Available in this DOTD Job Classification
Principal	1	2
Professional	2	2
Supervisor - Engineer	5	5
Engineer	6	9
Engineer Intern	3	5
Environmental Manager	0	1
CADD Technician	3	3
Supervisor - Other	0	1
Technician	6	7
GIS Analyst	0	2
Instrument Man	0	1
Surveyor	0	2
Party Chief	0	2
Clerical	1	3

Evaluation Disciplines

Past Performance Evaluation Discipline(s)	% of Overall Contract	Waggoner	Lazenby	APS (DBE)	Vectura (DBE)	Each Discipline must total to 100%
Road	40%	100%				100%
Bridge	15%	100%				100%
Traffic	10%				100%	100%
Geotech	10%			100%		100%
Survey	15%		100%			100%
Right-of-Way	10%		100%			100%
Percent of Contract	**100%**	**55%**	**25%**	**10%**	**10%**	**100%**

Section 12

Minimum Personnel Requirements (MPRs)

Waggoner Engineering, Inc.
Lead Design Firm

12. Minimum Personnel Requirements (MPRs)

Requirement (as stated in advertisement)	Personnel being used to meet the MPR	Firm employed by	Type of license and discipline meeting MPR/ certification & number	License/ certification expiration date
1. At least one (1) principal of the prime consultant shall be a registered profession engineer in the state of Louisiana.	Miles Williams, PE	Waggoner Engineering, Inc.	PE#23094 - Civil	3/31/2026
2. At least one (1) principal or other responsible member of the prime consultant shall be currently registered in the state of Louisiana as a professional engineer in civil engineering.	Robert J. Lear, Jr., PE, LSI	Waggoner Engineering, Inc.	PE#29394 - Civil	3/31/2027
3. At least one (1) principal or responsible member of the prime consultant shall be 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 designing road projects.	Robert J. Lear, Jr., PE, LSI	Waggoner Engineering, Inc.	PE#29394 - Civil	3/31/2027
4. At least one (1) profession civil engineer, registered in the state of Louisiana, shall have a minimum of five (5) years of experience in designing cast-in-place slab spans.	Andrew Windmann, PE	Waggoner Engineering, Inc.	PE#39042 - Civil	9/30/2026
5. At least one (1) professional civil engineer, registered in the state of Louisiana, shall have a minimum of five (5) years of experience in designing precast prestressed (LG type) girder bridges.	Andrew Windmann, PE	Waggoner Engineering, Inc.	PE#39042 - Civil	9/30/2026
6. At least one (1) professional civil engineer, registered in the state of Louisiana, shall have a minimum of five (5) years of experience in Geotechnical Design involving Louisiana soils and bridge structures.	Sergio Aviles, PE	APS Engineering and Testing, LLC	PE#33571 - Civil	3/31/2026
7. At least one (1) professional land surveyor, registered in the state of Louisiana, shall have a minimum of five (5) years of experience in conduction topographic and property surveys, and preparing right of way maps.	Paul D. Fryer, PLS, PE	Lazenby & Associates, Inc.	PLS#4806 - Surveying PE#23426 - Civil, Environmental	9/30/2025 9/30/2025

* The Waggoner team has multiple personnel assigned to this contract who have the qualifications necessary to meet each minimum personnel requirements. Individuals listed are the key personnel for each MPR. Additional names were not added to keep the response clear and concise.

Section 13

Short Resumes

Waggoner Engineering, Inc.
Lead Design Firm

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Miles Williams, PE**			Years of Relevant Experience with this Employer	8
Title	Senior Vice President/Transportation Market Section Lead			Years of Relevant Experience with Other(s) Employers	33
Degree(s)/Years/Specialization			BS/1983/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#23094/LA/03-31-26		
Year Registered	1988	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Principal-in-Charge | **Satisfies MPR # 1**		

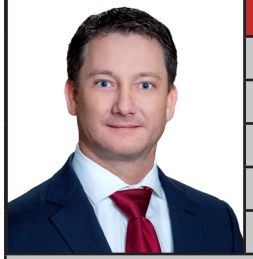
Miles will oversee the project, ensuring that all services are performed in compliance with the contract and specific task orders. He will provide **high-level direction and decision-making**, ensuring the team adheres to **relevant standards**. Miles will also be responsible for **final approval** of all deliverables and coordination with the DOTD's Chief Engineer to ensure quality and conformity with DOTD's quality standards. Miles has served as a design engineer and project manager on a wide range of **traffic engineering and transportation-related projects**. His tasks have included the **design of individual signal installations and interconnected signal systems**. He has supervised the multidisciplinary design of control signal systems for a variety of governmental and private clients. In addition, Miles has demonstrated extensive experience in the development of maintenance of traffic, construction phasing, and construction signing plans and specifications.

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).
08/21 – 05/23	**LA 73: US 61 (Airline Highway) – LA 426 (Essen Lane), E. Baton Rouge Parish, LA (H.010652)** Miles was the road design engineer-of-record and was responsible for all **roadway design** and plan preparation tasks. Waggoner was contracted by LADOTD to engineer the reconstruction of LA 73, covering **full pavement replacement**, curbs, gutters, and sidewalks from Airline Highway to the I-12 on-ramp, and repairs from the I-12 on-ramp to Essen Lane. The project included a 2.3-mile roadway with quantity summaries, cost estimates, and plans to minimize traffic impacts.
03/03 - Ongoing	**LA 1 Improvements: Fourchon-Golden Meadow, Lafourche Parish, LA (700-29-0112 | H.008145 | H.004526)** **Project Manager, Lead Road Design Engineer, Principal-In-Charge.** Miles was the lead road design engineer for Phase 1 of this multi-segment mega project to add 17 miles of tolled bridge on new alignment through coastal Louisiana. During Phase 1 (Fourchon-Leeville), he designed both interim and ultimate interchange/intersection geometrics, **roadway plans**, permanent signing, permanent striping, and provided **construction support.** He is the principal-in-charge for environmental and permitting services, and construction support services for Phase 2 (Leeville-Golden Meadow). **This project included both pavement preservation and capacity functional classifications.**
10/12 - Ongoing SECTION 14 PROJECT	**Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)** **Principal-in-Charge.** Miles is the principal-in-charge for the NEPA EA and urban **road design** of this 2.2 mile capacity project. Hooper Road is being upgraded to a four-lane blvd with complete streets accommodations. **This project included both pavement preservation and capacity functional classifications.**
03/13 – 07/22 SECTION 14 PROJECT	**I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish, LA (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014)** **Principal-in-Charge, Road Design Engineer.** Miles served as the principal-in-charge and road design engineer for capacity and pavement preservation improvements for I-10 in Lafayette. These three projects were designed concurrently under a **road design** retainer and constructed under three separate construction contracts. He provided overall contract management, designed sequence of **construction plans**, and mentored the **roadway design** calculation and plan preparation process. He played a supportive role in construction support as well. **This project included both pavement preservation and capacity functional classifications.**

Miles Williams resume continued

01/13 - Ongoing SECTION 14 PROJECT	**I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)** **Road Design Engineer.** Miles is the road design engineer of record for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. He is responsible for the horizontal and vertical **geometric design**, subsurface and open ditch **drainage design**, and road plan production of a four-tiered interchange, eight-lane mainline, two-lane one way frontage roads, and u-turns. He also is responsible for coordinating the frontage road extensions and interchange alternative design for future/interim condition implementation.
05/20 - Ongoing SECTION 14 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)** **Road Design Lead.** Miles is the road design lead professional for the replacement of I-10, interchange improvements, and surface street improvements through Metro Baton Rouge. His responsibilities include **road and drainage design**, complex interchange geometric design, maintenance of **traffic/sequencing plans**, coordinating with the CMAR contractor, design and constructability reviews, value engineering assessments, cost estimating, project phasing for GMP limit determination, proposed **right-of-way** and control-of-access limit determination, **utility coordination**, and public involvement.
04/02 – 04/12 SECTION 14 PROJECT	**Jones Creek Road Improvements Tiger Bend Road – Coursey Boulevard, East Baton Rouge Parish, LA (H.007137)** **Principal-in-Charge, Project Manager.** Miles was the principal-in-charge for the Jones Creek Road Improvements project for LADOTD. The project involves widening an existing two-lane roadway to a five-lane curb and gutter roadway with **subsurface drainage**. He was responsible for contracts, geometrics, **road design**, sequence of construction, signing, and coordination of **traffic signalization**. He was also the project manager during the **topographic and boundary survey and right-of-way map** preparation phases.
12/14 – 04/19	**South Acadian Thruway (Perkins Road - LA 73), East Baton Rouge Parish, LA (H.011261)** **Principal-in-Charge.** Miles was the principal-in-charge for the safety project designed to reduce the number of accidents along the stretch of Acadian Thruway. The project includes replacing the asphalt overlay and improving the intersection design at Claycut Road. Miles reviewed proposed safety and sidewalk improvements as they were implemented in the project. **This project included both pavement preservation and capacity functional classifications.**
04/18 - Ongoing	**Belle Chasse Bridge and Tunnel Replacement Public-Private Partnership Project, Plaquemines, and Jefferson Parish, LA (H.004791)** **Project Principal, Hydraulic Design Engineer.** Waggoner is a design subconsultant providing drainage design for this alternative delivery project. Miles is serving as project principal and hydraulic design engineer. His work entails liaison with the prime consultant, builder, concessionaire, and LADOTD. He is also assisting in the design of the **drainage system** for the roadways throughout the project including storm sewer design, **drainage plans preparation**, and generation of quantities.
10/16 - Ongoing	**I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250)** Mr. Williams is serving as the Project Design Manager for all design efforts on the project. As such, he is responsible for leading and coordinating all disciplines: road design; bridge design; lighting; geotechnical investigation; and traffic control. He also is the responsible engineer for geometric design, roadway construction and traffic control plans. During construction, he is interacting with both the Contractor and the designers of various temporary components to ensure that all project requirements are being met.

13. Short Resumes



Firm Employed By: Waggoner Engineering, Inc.					
Name	**Robert J. Lear, Jr., PE, LSI**			Years of Relevant Experience with this Employer	25
Title	Vice President | Senior Project Manager			Years of Relevant Experience with Other(s) Employers	3
Degree(s)/Years/Specialization			BS/1996/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#29394/LA/03-31-2027		
Year Registered	2001	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		QA/QC | **Satisfies MPR #2 & 3**			

Robert will be responsible for the **day-to-day management** of the contract, ensuring that all **tasks** are executed according to the **scope, schedule, and budget**. He will oversee the **preparation of preliminary and final plans**, coordinating with all team members to ensure designs comply with **LADOTD and Bossier Parish guidelines** and incorporate necessary environmental and constructability reviews. With over **25 years of LADOTD project design and management experience**, Robert will ensure projects comply with LADOTD standards and are completed on time.

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).
08/21 – 05/23	**LA 73: US 61 (Airline Highway) – LA 426 (Essen Lane), E. Baton Rouge Parish, LA (H.010652)** Robert performed the roadway QA/QC for the entire project including typical sections, plan profiles, cross sections, pay items, quantities, and opinion of probable costs. Waggoner was contracted by LADOTD to engineer the reconstruction of LA 73, **covering full pavement replacement**, curbs, gutters, and sidewalks from Airline Highway to the I-12 on-ramp, and repairs from the I-12 on-ramp to Essen Lane. The project included a 2.3-mile roadway with quantity summaries, cost estimates, and plans to minimize traffic impacts.
03/03 - Ongoing	**LA 1 Improvements: Fourchon-Golden Meadow, Lafourche Parish, LA (700-29-0112 | H.008145 | H.004526)** **Project Manager, Road Design Engineer, Permitting Manager.** Robert has served multiple roles for this multi-phase mega project to add 17 miles of tolled bridge on new alignment through coastal Louisiana. During Phase 1 (Fourchon-Leeville), he designed roadway, geometrics, permanent signing, permanent striping, roadway lighting, construction canal dredging plans, marsh creation mitigation plans, and provided **construction support**. He performed CE&I/OV services for the toll gantry, roadway lighting, electrical systems, wayfinding signage, permanent signing, and new toll building. He also prepared and secured all construction permits (USACE, DNR, USCG, DEQ) for Phases 1 and 2. He prepared demolition plans for the old Bayou Lafourche bridge substructure, as well as **coordinated SUE and utilities** for all pipeline in the active oil and gas field. **This project included both pavement preservation and capacity functional classifications.**
10/12 - Ongoing SECTION 14 PROJECT	**Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)** **Project Manager.** Robert was the project manager during the Environmental Assessment phase of this 2.2-mile urban roadway capacity project. Hooper Road is being upgraded to a four-lane blvd with complete streets accommodations. He also managed the **topographic survey** and prepared **right-of-way (ROW) maps**. **This project included both pavement preservation and capacity functional classifications.**
03/13 - 07/22 SECTION 14 PROJECT	**I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)** **Project Manager and Lead Road Design Engineer Of Record.** Robert served as the project manager and lead road design engineer of record for **capacity and pavement preservation** improvements for I-10 in Lafayette. These three projects were designed concurrently under a **road design** retainer and constructed under three separate construction contracts. He designed roadway geometrics, drainage, graphical grades, ramp terminals, roundabout intersections, and construction sequencing. He also coordinated the multi-discipline plan set packaging, quantity computations, specs, special provisions, pay items, design reports, design waivers, design exceptions, and utility conflicts. He played an active role in construction support as well. **This project included both pavement preservation and capacity functional classifications.**

Robert Lear resume continued

01/13 - Ongoing SECTION 14 PROJECT	**I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, (H.002868)** **Roadway Design Engineer.** Robert is a roadway design engineer for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. Robert is responsible for the horizontal and vertical geometric design and **road plan production** of a four-tiered interchange, eight-lane mainline, two-lane one-way frontage roads, and u-turns.
2013 - 2015	**US 171: J-turns at North Perkins Ferry Road, Beauregard & Calcasieu Parishes (H.010197)** **Survey Manager.** Robert was the survey manager for the design of J-turns and turn lanes at a three-leg intersection north of Lake Charles, LA. He was responsible reviewing all **survey and control data**. All work for this project was performed using Inroads Survey, CAD-Conform, and LADOTD electronic plan delivery requirements.
05/20 - Ongoing SECTION 14 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)** **Roadway Design Engineer.** Robert is a roadway design engineer for the widening of I-10, interchange improvements, and surface street improvements through Baton Rouge. His responsibilities include urban roadway, freeway, and interchange geometrics, profile design, typical sections, design reports, establishing required **ROW**, and plan preparation using Microstation and Inroads. He is part of the **roadway task force** which collaborates with the design team, DOTD, and the CMAR contractor.
04/02 – 04/12 SECTION 14 PROJECT	**Jones Creek Road Improvements Tiger Bend Road – Coursey Boulevard, East Baton Rouge Parish, LA (H.007137)** **Project Manager and Lead Road Design Engineer.** Robert was the project manager and lead road design engineer for the widening of a two-lane road to a five-lane urban section. He designed roadway geometrics, intersections, sidewalks, residential and commercial drives, pavement markings, and cross sections. He also managed the **topographic survey** and worked under PLS supervision for the **preparation of ROW maps**.
10/20 - Ongoing	**I-10 and I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), East Baton Rouge Parish, LA (H.013897)** **Lead Road Design Engineer.** Robert is serving as the lead design review engineer for the following design units: definitive design, clearing and grubbing, **roadway, drainage**, maintenance of traffic, pavement marking and signing, Stormwater Pollution Prevention Plan (SWPPP), and **TMP Level 4**. His responsibilities include technical reviews of calculations and drawings for conformance to the minimum guidelines, project technical performance specifications, and contract documents.
05/21 – 03/23	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** **Project Manager and Design Engineer.** Robert was the project manager and design engineer of record for **drainage improvements** along LA 352 in Henderson, LA. The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problem near the I-10 Henderson exit. The design also incorporates a **drainage bypass system** to balance flows near the interchange. Robert is responsible for coordinating the project with the District 03 administrator, DTOE, area engineer, and utility coordinator, along with the **design of the drainage systems**, maintenance of traffic plans, and **construction plan development.**
08/18 – 10/22 SECTION 14 PROJECT	**I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)** **Lead Road Design Engineer.** The project includes adding ramps to the existing I-20/I-220 Interchange and providing full access to the Barksdale Air Force Base via a new four-lane rural arterial roadway. Robert is the roadway design engineer for this LADOTD **design-build project**. He is responsible for preparing the geometric design criteria reports, design exceptions, horizontal and vertical geometrics for the interstate, diagonal and loop ramps, C-D road, and rural arterial; superelevation transitions, typical sections, plan profile sheets, geometric control, geometric layout, geometric details, cross sections, **drainage design** including cross drains, storm drains, side drains, roadside ditches, **existing and design drainage maps**, clearing and grubbing plans, and construction support. Robert also was responsible for QA/QC reviews and/or independent reviews of the SWPPP, Interchange Modification Report (IMR) re-evaluation, **traffic control plans**, signing and striping plans, and transportation management plan.
01/14 – 07/16	**LA 342: Roundabout at LA 724, Lafayette Parish, LA (H.002163)** **Project Manager and Lead Road Design Engineer.** Robert served as the project manager and road design engineer for a four-legged single-lane roundabout in Lafayette Parish. He was responsible for the horizontal and vertical **geometric design**, typical sections, suggested sequencing, permanent pavement markings, permanent signing, quantities and opinion of probable costs for this project. He also supervised all survey and SUE efforts. **Utility locates** included QL-D and QL-C locates. Robert coordinated with District 03 for **utility relocation** requirements and needs.

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Paul Foley, PE**			Years of Relevant Experience with this Employer	2
Title	Director of Transportation & Field Services			Years of Relevant Experience with Other(s) Employers	16
Degree(s)/Years/Specialization			BS/2009/Civil and Environmental Engineering		
Active Registration Number/State/Expiration Date			PE#39520/LA/9-30-2025/PE#26568/MS/12-31-2025		
Year Registered	2015	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway/Drainage Quality Control & Peer Reviews			

Paul will focus on quality control and peer reviews alongside DMRP and Horrocks. He will verify the accuracy of project submittals and reports, perform independent peer reviews of designs and calculations, and conduct engineering reviews for plans and special provisions to ensure compliance with project standards and regulatory requirements. Paul's extensive project management and professional engineering experience includes roadway design, hydrology and hydraulics, water resources, and surface transportation.

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).
04-20 - Ongoing	**State Street Improvements, Jackson, Hinds County, MS** **Transportation Discipline Leader.** Paul served as the transportation discipline leader for the State Street Improvements project. For this project, Waggoner provided professional services for a $18 million rehabilitation of State Street between Fortification and West Capitol Streets in Jackson, MS.
05/21 - Ongoing	**Claiborne County Emergency Drainage Repairs, Claiborne County, MS** **Transportation Discipline Leader.** Paul served as the transportation discipline leader for the Claiborne County Emergency Drainage Repairs project. The project consisted of the repairs of more than 20 erosion areas throughout the county using riprap flumes to carry stormwater off-site and stabilize the banks for future flooding.
11/24 - 12/25	**Yandell Road - Highway 51 to Smith Carr Road and Smith Carr Road to N. Old Canton Road, Madison County, MS:** Waggoner has been selected and contracted to provide all necessary professional services required to complete the onsite field review, prepare final right-of-way plans, prepare maps and deeds, delineate wetlands and other waters of the US, prepare wetlands and other waters permits, and complete final roadway and hydraulic design for the widening of existing roadway to a five-lane section from approximately 300 feet east of Highway 51 to 200 feet east of Smith Carr Road as well as 200 feet east of Smith Carr Road to 350 feet west of N. Old Canton Road for Madison County.
03-21 - 03/22	*** Lakeshore (RR079) Roadway Improvements, New Orleans, LA** **Senior Project Manager.** Paul was responsible for the design and complete rehabilitation/reconstruction of approximately 5,500 LF of roadway. He was also responsible for overseeing roadway and utility improvements during design and construction. The improvements included concrete and asphalt pavement replacement, curb/gutter and driveway replacement, storm sewer design, sanitary sewer, water line replacement and house connections. Preliminary work included research of available easements, record drawings, planning reports, and other pertinent information considering the development of the conceptual plans and the final design of the proposed improvements. The proposed layout was evaluated in terms of access for emergency vehicles and access for property owners. Paul performed a preliminary drainage analysis and designed new potable watermain(s), valves, fire hydrants, meters, and house connections. Along with designing new sanitary sewer systems and storm drainage systems as well as prepared preliminary design phase (30%, 60%, and 90%) and final design phase (100%) services which include plans, specifications, and cost estimate.

*** Prior Project Experience**

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Alex Farr, PE**			Years of Relevant Experience with this Employer	11
Title	Project Manager			Years of Relevant Experience with Other(s) Employers	2
Degree(s)/Years/Specialization			BS/2011/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#40426/LA/09-30-2026		
Year Registered	2016	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway Design Lead			

Alex will serve as the **roadway design lead**, overseeing the **detailed engineering and design of pavement preservation and transportation system management (TSM)** projects. He will manage topographic surveys, ensuring accurate stationing of the project centerline and cross-sectioning of roadways and ditches. Alex will coordinate with the project manager to ensure that all drainage structures, utilities, and existing conditions are properly **documented and incorporated into the preliminary and final plans**. He will also guide the team in adhering to the ensuring that all designs are completed to the highest standard.

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).
03/13 – 07/22 SECTION 14 PROJECT	**I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish, LA (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014)** **Project Engineer.** Alex prepared **road design plans** for the interstate, ramps, and overpasses for all three segments of I-10. The **TMPs** pertained to alternate route analysis, public information, stakeholder involvement, traffic and safety data, temporary traffic control, and work zone impact management strategies. Alex was also responsible for the suggested **sequence of construction**, temporary signing, and quantity computations for each construction funding source and control section. Alex prepared **road design plans** for the interstate, ramps, and overpasses for all three segments of I-10. **This project included both pavement preservation and capacity functional classifications.**
04/21 - Ongoing	**Rural Bridge Replacement Initiative Phase II (South), LA (440001338)** **Project Manager.** Alex is responsible for the plan development of this project, which is for 16 state projects including 29 bridge replacement sites throughout south Louisiana. This includes preparing the **Project Design Report (PDR)** as well as the horizontal and vertical geometry. As some bridge sites are allowed to be closed for construction while others must remain open, Alex is also responsible for designing a detour route or diversion road, which includes a suggested **sequence of construction.** Alex is also responsible for the guardrail design at each bridge site. Along with **plan development**, Alex will be assisting the project manager in subconsultant coordination as well as invoicing and progress reporting to the LADOTD Project Manager.
08/18 – 10/22 SECTION 14 PROJECT	**I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)** **Project Engineer.** Alex was responsible for performing the **design of the ramp's profiles**, including the super elevation calculations as well as the graphical grades. Alex was also responsible for the permanent striping plans, clearing and grubbing plans, and the quantity estimate.

Alex Farr resume continued

10/20 - Ongoing	**I-10 & I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), E. Baton Rouge Parish, LA (H.013897)** **Road and Construction Sequencing Design Reviewer.** Alex is serving as a road and construction sequencing design reviewer, providing support services to DOTD for this project. This project consists of modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits. Alex's responsibilities include reviews of **roadway plans** and **construction sequencing** with consideration being given to DOTD Design Guidelines and Standard Details and Specifications.
05/20 - Ongoing SECTION 14 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** **Project Engineer.** Alex was responsible for developing the proposed vertical profiles along the entire mainline corridor as well as their respective **service roads**, surface streets, entrance, and exit ramps. This included determining existing vertical clearance along the corridor and adjusting the profile to meet the minimum vertical clearance per LADOTD minimum **design guidelines.** This was performed along this corridor by using as-builts pertaining to their respective locations. Alex was also responsible for calculating the **roadway and bridge** construction costs for the project opinion of probable costs.
01/17 - Ongoing SECTION 14 PROJECT	**I-49 South: US 90 & Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)** **Project Engineer.** Alex was responsible for the storm sewer drainage design along the northbound and southbound service roads for this project. Alex was also responsible for preparing a **traffic signal plan** including a traffic signal warrant analysis as well as an operational analysis concerning the two new proposed signals at the NB and SB service roads and Ambassador Caffery. Alex also developed the **Transportation Management Plan (TMP)** for this project to minimize impacts to the traveling public throughout construction.
10/16 – 12/20 SECTION 14 PROJECT	**I-10: Highland to LA 73 Design-Build Project, East Baton Rouge and Ascension Parish, LA** **Project Engineer.** Alex was responsible for performing the **TMP** as well as the safety analysis for this project to determine what safety concerns correlated to the construction of this segment. Alex was also responsible for the suggested **sequence of construction**, guardrail design, and the quantity estimate for the above mentioned project.
2019 - Ongoing SECTION 14 PROJECT	**Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA** **Project Manager.** Waggoner was contracted by the East Baton Rouge Parish Department of Transportation and Drainage (EBR DOTD) through the MOVEBR Program to design the extension of Jones Creek Road from the existing Tiger Bend Road intersection to a new terminus point on Airline Highway. The project includes a two-mile four-lane boulevard on new alignment, green infrastructure drainage features, a roundabout at Jefferson Highway, a new residential subdivision access point for an existing subdivision, a new bridge over Claycut Bayou, **topographic and right-of-way mapping**, and stormwater detention ponds to control outfall channel levels. Alex designed the **roadway geometrics**, typical sections, geometric details, cross sections, MOT, quantities, and construction cost estimates.
2018 - 05/24	**Scotlandville Parkway to Downtown Baton Rouge Bike Trail (H.013267)** **Project Engineer.** Alex served as the project engineer and designed a bike trail from Memorial Stadium to BREC Scotlandville Parkway Park. The design included separated mixed use trails, road to trail conversions, and shared lanes. Alex also prepared the **striping and signing plans** for this route, quantities, and estimated construction cost.
12/14 - 04/19	**Acadian Thruway Safety Improvements (H.011261)** **Project Engineer.** Alex computed project quantities, sequence of construction, and the striping plan for this mill and overlay project. Alex also was responsible for **utility location** along this segment. He designed geometric alternates for the intersection at Claycut Road.

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Kelsie Bankston, PE**			Years of Relevant Experience with this Employer	3
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	4
Degree(s)/Years/Specialization			BS/2018/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#47126/LA/03-31-2027		
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway Design			

Kelsie will serve on the road design focusing on conducting topographic surveys, particularly in recording drainage structures and cross-sections. She will ensure that all measurements, including travel lanes, shoulder widths, and utility locations, are accurately documented. Her work will contribute to the preliminary and final plan preparations, ensuring the designs meet the required guidelines. Previously, Kelsie worked as an engineer intern at Forte & Tablada, Inc., where she conducted site visits, assisted with bridge inspections, prepared reports, and designed bridge replacements. She also trained new engineers and coordinated project progress, demonstrating her commitment to quality and attention to detail.

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).
04/21 - Ongoing	**Rural Bridge Replacement Initiative Phase II, LA** **Project Engineer.** Kelsie is managing and designing four bridge replacement projects included in this contract. This work includes assessing site conditions, deciding the structure type and size based on the hydraulics of the channel, and designing the roadway approaches. She is responsible for project management, roadway and slab span bridge design, construction plan preparation, quantity computations, and developing an opinion of probable costs.
02/21 - 02/23	**LA 73: US 61 (Airline)-Essen Lane, East Baton Rouge, LA (H.010652)** **Project Engineer.** This roadway transfer project involves replacement of the existing LA 73 roadway with a new asphalt pavement section. Kelsie assisted in setting up the base geometry using as-built drawings and survey data for the reconstruction of LA 73, including curb and gutter and sidewalks throughout the limits of the project. She was responsible for all quantity calculations, including compiling the quantity book, and the summary sheets. She also performed the QA/QC of the geometric details.
10/21 - Ongoing SECTION 14 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** **Project Engineer.** Kelsie has assisted in the preparation of various submittals for this project. She has assisted in the typical section design, plan, and profile preparation, required right-of-way and roadway geometrics for various sections and stages of this project, and is responsible for the graphical grading and superelevation design of multiple ramps throughout the corridor. She is responsible for documenting and tracking information, documents, and comments received from LADOTD and other consultants on the design team. Kelsie has performed quantity calculations and prepared quantity tables for various submittal stages.
05/21 - 03/23	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** **Project Engineer.** This project involves channel improvements and adding subsurface drainage systems to an outfall channel adjacent to LA 352. Kelsie is responsible for the typical sections, plan profiles, developing a suggested sequence of construction, diversion road design for maintenance of traffic, quantity computations, pay item list, and documentation of comments and responses.

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Charlotte Gremillion, PE**			Years of Relevant Experience with this Employer	4
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	2
Degree(s)/Years/Specialization			BS/2018/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#47930/LA/09-30-2025		
Year Registered	2023	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway Design			

Charlotte will be part of the roadway design team, conducting topographic surveys with an emphasis on cross-sectioning roadways and ditches at various interval levels. She will be responsible for measuring guard rails, striping, and utilities, ensuring this information is meticulously recorded for use in the final design. Her role will be crucial in ensuring that the existing conditions are fully understood and reflected in the project plans. Charlotte is experienced with transportation and commercial projects, including road design, geometric design, and on-site work. She is trained and experienced in AutoCAD, Civil 3D, MicroStation, and GlobalMapper, which she uses for plan preparation and design, contributing to high-quality deliverables.

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).
9/22 - Ongoing	**LA 1088: Soult and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)** **Project Engineer**. This project includes replacing two intersections and the connecting two-lane urban arterial with roundabouts and a four-lane boulevard section. Charlotte responsibilities include roadway geometrics, design reports, technical calculations, and plan development. She designed all typical sections through the addition of two new roundabouts. She identified and assessed the roadway design constraints in the area when deciding the location of the two roundabouts and roadway approaches. She connected the existing conditions to the new designs so that access would not be limited.
05/20 - Ongoing SECTION 14 PROJECT	**I-10: LA 415 to Essen Lane on I-10 and I-12, Baton Rouge, LA (H.004100)** **Lead Design Engineer.** This project is to replace the urban interstate through downtown Baton Rouge under an alternative delivery process. Charlotte serves as a technical design engineer for urban freeways, grade separation interchanges, urban arterials, urban collectors, and local streets. She is the lead design engineer for roundabouts at the Dalrymple Drive Exit Ramp and Terrance Street at Braddock Street intersection. She prepares roadway design calculations, executes technical reviews, and prepares construction plans for several stages, phases, and segments of the project. She also performs quantity calculations and prepares quantity tables for various submittal stages. She is responsible for plan and profile preparation, cross sections, and roadway geometrics for various sections and stages of the project.
04/21 - Ongoing	**Rural Bridge Replacement Initiative Phase II, LA** **Project Engineer.** Charlotte is in charge of managing a bridge replacement project included in this contract. This work includes assessing site conditions, deciding the structure type, and size based on the hydraulics of the channel, and designing the roadway approaches. She will be responsible for preparing the submittals for each of these bridges as well as submitting monthly progress reports.
10/20 - Ongoing	**I-10/I-12 College Flyover, East Baton Rouge Parish, LA (H.013897)** **Technical Review Engineer.** This project includes design upgrades to a grade separation fully directional interchange of two interstates in Baton Rouge, LA. Charlotte serves as a technical review engineer for the owner verification team on the following design units: definitive design, clearing, and grubbing, roadway (multiple units), drainage, maintenance of traffic (multiple units), pavement marking and signing, SWPPP, and TMP Level 4. Her responsibilities include technical reviews of calculations and drawings for conformance to the minimum guidelines, project technical performance specifications, and contract documents. She manages all technical comments originating from her firm and take part in technical review meetings with the design-builder and owner.

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Thomas Grass, PE**			Years of Relevant Experience with this Employer	5
Title	Senior Project Engineer			Years of Relevant Experience with Other(s) Employers	10
Degree(s)/Years/Specialization			BS/2007/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#25464/MS/2026		
Year Registered	2014	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Roadway Design/Geometrics		

For these contracts, Thomas will serve as a roadway and geometrics designer, creating road layouts and plans that prioritize safety, efficiency, and compliance with engineering standards. He will consider factors such as traffic flow and terrain to develop designs that optimize functionality and minimize risk. Through careful analysis and collaboration, he will ensure that the projects meet community needs while maintaining high standards of quality and regulatory compliance. Thomas joined Waggoner in 2018, bringing ten years of experience in project management, 2D and 3D roadway design, traffic signal design, and bridge design. His expertise also includes commercial and passenger railroad design, traffic impact studies, roadway safety audits, and traffic planning and modeling. These projects have ranged from small projects with short deadlines to long-running, multi-disciplinary projects.

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).
04/19 - Ongoing	**Old Highway 80 Bridge Replacement, Meridian, Lauderdale County, MS** **Discipline Manager.** Thomas served as the transportation discipline manager for this project. Built in 1926, the existing US 80 Bridge over Okatibbee Creek in Lauderdale County needed to be replaced. The old bridge was taken down and replaced with a new bridge that met Mississippi Office of State Aid Road Construction bridge standards. The project included environmental studies and permitting, surveying, hydraulic and hydrological analysis, bridge and roadway design, geotechnical engineering, utility coordination, and construction phase support services. Additional right-of-way and construction easements were acquired. The bridge's age and historical importance qualified it for nomination to the National Register of Historic Places, so Waggoner collaborated with the Mississippi Department of Archives and History to install a historical marker near the new bridge.
01/19 - 12/23	**Highland Commerce Drive, Ridgeland, Madison County, MS** **Discipline Manager.** Thomas served as the transportation discipline manager for this project. Waggoner performed the professional engineering services required for the development of Phase A (Field Review plans) including Utility Relocation phase services, for the Highland Commerce Drive project. The project consists of upgrading 1.5 miles of existing road and an additional 1.5 miles of newly built roadway designed to handle large trucks and encourage development.
2/20 - Ongoing	**Reunion Parkway Phase 2, Madison County, MS** **Discipline Manager.** Thomas's lead roles were roadway design and subconsultant management. This Phase A (Field Review plans) and Phase B (Final Construction plans) project crossed I-55 approximately two miles north of exit 108 and connects with Bozeman Road on the western side and Parkway East on the eastern side. The Reunion Parkway Phase 2 roadway will extend approximately 1.2 miles, including a bridge over I-55, and will include four travel lanes and a multi-use path (bikes and pedestrians). Services provided included design phases services, preparation of maps and deeds, and coordination of underground utility relocation.
08/16 - 1/24	**Riverside Drive Rehabilitation, Jackson, Hinds County, MS** **Lead Designer.** Thomas served as the transportation discipline manager for this project. The project includes design and construction engineering services consisting of rehabilitation and improvements to Riverside Drive. Proposed improvements include geometric modifications to improve the typical section, pavement structure, and incorporate storm drainage improvements, utility relocation, pedestrian/bicyclist amenities, existing and proposed landscape related features, Americans with Disabilities Act (ADA) compliance, roadway signage, and public transportation nodes.

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Andrew T. Windmann, PE**			Years of Relevant Experience with this Employer	2
Title	Senior Bridge Design Engineer			Years of Relevant Experience with Other(s) Employers	13
Degree(s)/Years/Specialization			BS, Civil Engineering, 2010		
Active Registration Number/State/Expiration Date			PE# 39042/LA/09-30-26		
Year Registered	2014	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Bridge Design Lead | **Satisfies MPR #4 & #5**		

Andrew is a civil engineer with extensive experience in transportation infrastructure including roadway, bridge, structures design. With 13 years at the Louisiana Department of Transportation and Development (LADOTD), he played a key role in managing and delivering structural transportation projects. From 2021 to 2023, he served as Assistant Bridge Design Administrator, overseeing a $240 million bridge rehabilitation and replacement program for Louisiana's highway structures. His expertise in project management, roadway alignment, and structural design ensures the successful execution of roadway improvement projects.

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).
Ongoing SECTION 14 PROJECT	**Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA** **Bridge Design**. Waggoner was contracted by the East Baton Rouge Parish Department of Transportation and Drainage through the MOVEBR Program to design the extension of Jones Creek Road from the existing Tiger Bend Rd intersection to a new terminus point on Airline Highway. The project includes a 2-mile 4-lane boulevard on new alignment, green infrastructure drainage features, a roundabout at Jefferson Highway, a new residential subdivision access point for an existing subdivision, a new bridge over Claycut Bayou, topographic and right of way mapping, and stormwater detention ponds to control outfall channel levels.
2023 – Present	**IIJA Bridge Replacement Initiative (District 62), LA (4400025041).** Mr. Windmann is the project manager and bridge lead for this contract of 6 state projects including 6 bridge replacements in Livingston, St. Helena, Tangipahoa, and Washington Parishes. As Bridge Lead, Mr. Windmann oversees the structure type recommendation from hydraulic engineers and the selection and conformance to the appropriate LADOTD Standard plans. Where details do not currently exist for site needs, Mr. Windmann has designed appropriate details to include in the construction plans. Serving as PM he has developed an efficient process/sequence of collecting field data (survey) and bringing it into the office (plan development), while staggering the various projects so that there is a continuous flow of data from phase to phase. Ultimately, Mr. Windmann is responsible for all coordination with subconsultants and progress reporting and invoicing with the client.
03/13 - 12/19 SECTION 14 PROJECT	**I-10: I-49 E. Junction to LA 328 Widening Project, Lafayette, LA** **Lead Bridge Design Engineer.** Andrew led the bridge design on this project that included the widening or full replacement of 12 bridge structures (six unique sites) along the I-10 mainline. The scope of this project included the initial assessment of each bridge to provide recommendation on widening versus replacement, while factoring in current condition, load-carrying capacity, and feasibility of construction. During Stage 3 of the project, Andrew led the structural team, ensuring the design were performed with great quality following LADOTD's QC/QA plan.

Andrew Windmann resume continued

2011-2013	**Cross Bayou and Relief Bridges, Caddo, LA (H.000102).** Mr. Windmann served as a designer on this project that included the replacement of the two existing concrete deck girder bridges with chorded AASHTO Type III PPC girders on reinforced concrete pile bents. These new bridges were constructed on new projected and adopted alignments to smooth out the existing substandard roadway geometry. Andrew performed all structural calculations, detailing, and quantity accumulation along with preparing construction cost estimates at each progressing milestone. He also provided construction-related engineering services throughout construction which included responding to contractor RFIs and contractor proposals, as well as reviewing required contractor submittals (i.e. working drawings and proposals)
2023 – Present	**Rural Bridge Replacement Initiative Phase II (South), LA (4400019338).** Mr. Windmann is the bridge lead for this contract of 16 state projects including 29 bridge replacements throughout south Louisiana. As Bridge Lead, Mr. Windmann oversees the structure type recommendation from hydraulic engineers and the selection and conformance to the appropriate LADOTD Standard plans. Where details do not currently exist in standard plans for particular site needs, Mr. Windmann has designed appropriate details to fill PM he has developed an efficient process/sequence of collecting field data (survey) and bringing it into the office (plan development), staggering the various projects so that there is a continuous flow of data from phase to phase.
2012-2016	**I-12: Northshore/Airport Rd. – US 11, St. Tammany, LA (H.009185).** Mr. Windmann served as a designer on this project that included the widening of parallel Interstate bridges over a local road and abandoned railroad line. The existing structures were comprised of AASHTO Type III PPC girder spans supported on reinforced concrete column bents and founded on pile-supported footings. The new, widened portions matched these components type using current material properties and design requirements. Sequence of construction was a major consideration in the design to facilitate the continued allowance of 2 lanes of traffic at all times. Mr. Windmann also provided construction-related engineering services throughout construction which included responding to contractor RFIs and contractor proposals, as well as reviewing required contractor submittals (i.e. working/fabrication drawings and proposals)
2017-2023	**LA 20: Bayou Chevreuil Bridge, St. James, LA (H.009481).** Mr. Windmann served as the project manager and provided review of the bridge design on this project that included the replacement of a functionally obsolete and geometrically substandard 28'x350' concrete girder bridge with a 40'x835' LG girder bridge with slab span approaches. The replacement bridge was significantly lengthened to provide adequate sight distance traversing the vertical curve and was wider to provide additional space for the rural farm and hauling vehicles that used this highway. As project manager, Andrew ensured the project met scope, schedule, and budgetary needs while coordinating with local governmental interests and a boat launch on site. As the bridge design reviewer, Andrew ensured that the bridge plans were created and checked in conformance with all QC/QA policy requirements and provided comments towards the constructability of the proposed new structure.

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Joshua Gonya, PE**			Years of Relevant Experience with this Employer	1
Title	Senior Bridge Design Engineer			Years of Relevant Experience with Other(s) Employers	15
Degree(s)/Years/Specialization			BS/2008/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#40859/LA/09-30-26		
Year Registered	2016	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Bridge Design/Load Rating			

Joshua is a licensed Professional Engineer and NHI-Certified Bridge Inspector with extensive expertise in civil and structural engineering. His technical proficiency spans prestressed and reinforced concrete and steel design, as well as frame, foundation, and sign truss design. He is well-versed in industry standards, including AISC, ACI, ASCE, AASHTO, MDOT, LADOTD, and IDM. Joshua's skill set includes bridge inspection, rating, and design, as well as project scheduling, budgeting, and management. He is highly experienced with engineering programs such as StaadPro, MicroStation, Civil 3D, AASHTOWare BrR, Bentley Suite, RAM Advance, and OpenBridge.

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).
09/19-09/21	**Morgan County Bridge #52 Replacement, Morgan County / INDOT, Morgan County, Indiana** Josh was the Project Manager and Lead Designer for this project. He completed the design of a three span AASHTO Type 1 beam bridge to replace the existing structure. The superstructure was supported by semi-integral end bents and wall piers which were both founded on steel H-piles. This bridge was in a rural area so considerations were taken to account for drainage of fields at all the corners.
05/14 - 05/15	**Essen Lane over Wards Creek Bridge Widening, East Baton Rouge Parish, LA** Joshua was responsible for initial bridge evaluations and widening of the existing Essen Lane bridge over Wards Creek. This project involved utility relocations, extending and matching existing substructures, extending, and matching existing slab span bridge elements. The bridge was evaluated in all temporary structural layouts with temporary traffic conditions.
2012 - 2017	**Mississippi Statewide Complex Bridge Load Rating & Inspection, Statewide, MS** Joshua was the lead load rating engineer/lead inspector. He was responsible for leading the tasks of load rating and inspecting over 100 bridges in 17 different Mississippi Counties per year. The inspections and load ratings were performed in accordance with NBIS, AASHTO, and MBE codes. Josh managed scheduling, personnel staffing, field inspections and load ratings for various bridge types including steel trusses, structural steel plate girders, steel railroad flatcars, reinforced concrete girders and slabs, reinforced concrete box culverts, prestressed concrete girders, and masonry arches.
09/13 - 08/17	**Load Rating and Posting of On-System Bridges, Statewide, LA** Joshua was the lead load rating engineer for this project. He was responsible for developing LRFR load rating procedures using AASHTOware BrR for superstructures, and LEAP RC Pier for substructures while working closing with LADOTD personnel. All structures were rated per AASHTO MBE utilizing LADOTD guidelines. Procedures were coordinated with LADOTD to assist in the further refinement of LADOTD BDEM Volume 5 Chapter 6 on load ratings. This project covered a wide variety of bridge superstructure types including: timber, reinforced concrete girders and slabs, prestressed concrete girders, steel trusses, steel plate girders, and steel rolled beams as well as various substructure types.

Joshua Gonya resume continued

05/19-08/20	**SR15 over Eagle Creek Bridge Replacement, Kosciusko County / INDOT | Kosciusko County, Indiana** Josh was the Project Manager and Lead Designer for this project. He completed the design of a custom three-span slab superstructure supported by integral end bents and interior open pile bents found on steel shell piles. Hydraulic design and site visits concluded that drift and debris are a major factor for Eagle creek and the open pile bents were used in order to minimize the amount of drift present at the structure. The bridge was designed to accommodate phased construction so that one lane of heavy truck traffic could be maintained at all times during construction. This bridge was in an urban area and required a large effort for utility coordination and local business coordination.
05/18-05/20	**Worthsville Road over Tracy Ditch Bridge Replacement, Greenwood, Greenwood, Indiana** Josh was the Project Manager and Lead Designer for this project. He completed the design of a 72'-6" single-span, Hybrid Bulb-Tee Beam bridge to replace the existing three-sided culvert over Tracy Ditch. Bridge Hydraulic design was completed to size the bridge and provide Q100 roadway serviceability. The bridge was designed to accommodate phased construction so that one lane of traffic could be maintained in each direction during construction. The end bents and bridge piling were spaced and designed to span an existing sanitary force main that could not be relocated. The bridge cross section includes four travel lanes, a striped median, two raised sidewalks and bridge railing.

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Joshua Oliver, PE**			Years of Relevant Experience with this Employer	7.5
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS/2017/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#46498/LA/9-30-26		
Year Registered	2022	Discipline	Professional Engineer		
Contract Role(s)/Brief Description of Responsibilities		Bridge Design			

As part of the bridge and structural team, Joshua participates in the development of bridge and structural designs, including structural analysis and detail drafting. He assists in creating comprehensive design calculations and specifications to support construction and ensure structural integrity. Joshua has experience with transportation-related projects, including highway design, bridge design, geometric design, and design studies. Joshua is trained in AutoCAD, Civil 3D, and LEAP Bridge Concrete, which he uses for plan preparation and bridge 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).
Ongoing SECTION 14 PROJECT	**Hooper Road Widening (LA 408), East Baton Rouge Parish, LA** **Project Engineer.** Joshua is serving as project engineer for this project, providing bridge and structural design services. This project is for the widening of an existing 2-lane roadway to a 4-lane boulevard to increase capacity. The project began with an Environmental Assessment (EA) and National Environmental Policy Act (NEPA) environmental documentation.
01/18 - 06/20 SECTION 14 PROJECT	**I-10 Widening, LA30 - LA22, Ascension Parish, LA** **Project Engineer.** Joshua was project engineer for this project, providing bridge and structural design services. This project involves the widening of a five-mile segment of I-10, including two girder bridge structures and one slab span structure as well as the replacement of the LA 941 bridge structure. Joshua was responsible for checking the longitudinal reinforcing design of the slab span bridge as well as the reinforcement of the new LA 941 bridge. He was also responsible for a preliminary bridge quantity estimate for the LA 941 overpass.
2019 - Ongoing SECTION 14 PROJECT	**Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA** **Project Engineer**. Joshua is serving as project engineer for this project. Waggoner was contracted by the East Baton Rouge Parish Department of Department of Transportation and Drainage through the MOVEBR Program to design the extension of Jones Creek Road from the existing Tiger Bend Road intersection to a new terminus point on Airline Highway. The project includes a 2-mile 4-lane boulevard on new alignment, green infrastructure drainage features, a roundabout at Jefferson Highway, a new residential subdivision access point for an existing subdivision, a new bridge over Claycut Bayou, topographic and ROW mapping, and stormwater detention ponds to control outfall channel levels.
01/18 - 05/20 SECTION 14 PROJECT	**I-10 Corridor Improvements (LA 415 to Essen Lane) EA, West & East Baton Rouge Parishes, LA** **Project Engineer.** Joshua assisted in the development of the proposed vertical profiles for the Perkins Drive through Acadian Throughway section of the corridor. He was responsible for the identification of critical points of clearance along this region and the corresponding impacts to the design Profile Grade Line. He was also responsible for developing construction sequencing for the removal of the straddle bent over the Kansas City Rail Road overpass.

Joshua Oliver resume continued

2016 - Ongoing	**Pecue Lane / I-10 Interchange, East Baton Rouge Parish, LA (H.003047)** This project consists of the design of an interchange with multiple through and turn lanes on Pecue Lane, an entrance ramp and exit ramp on eastbound Interstate 10, an entrance and exit ramp on westbound Interstate 10, replacing the current Pecue Lane slab span bridge over Wards Creek, and widening the I-10 girder bridge over Wards Creek. Mr. Olivier was responsible for the superstructure and substructure design of the I-10 East bound and West bound bridge widening as well as the checking of the Pecue Lane slab span superstructure and substructure design. He also assisted with the load rating of all structures. Additionally, Mr. Olivier performed shop drawing review as the project entered construction.
2014 - Present	**Ambassador Caffery & US 90 I/C (Future I-49), Lafayette, LA (H.002868)** This project entails construction of a new fully access controlled grade-separated interchange at the intersection of Ambassador Caffery Parkway (La 3073) and US 90 (future I-49 South) in Lafayette Parish. Mr. Olivier assisted with checking the superstructure and column bent substructure design. This project utilized the newly developed "LG" prestressed concrete girders. Additionally, Mr. Olivier performed shop drawing review as the project entered construction.
2018 - Present	**LA 3213 Gramercy Bridge Approach (Westbank), St. John the Baptist Parish, LA (H.002960)** This project consists of constructing a new overpass along the existing horizontal alignment on LA 3213 to create a grade separation over the existing Union Pacific railroad tracks while remaining inside the existing right-of way and includes the design of an on-site diversion to route traffic around the construction zone. Mr. Olivier performed the final structural design for all superstructure and substructure components. All design was performed with the AASHTO L.R.F.D. guidelines and LADOTD's Bridge Design and Evaluation Manual. This project utilized the newly developed "LG" prestressed concrete girders.

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Bryan Harmon, PE**			Years of Relevant Experience with this Employer	10
Title	Vice President | Special Projects Engineer			Years of Relevant Experience with Other(s) Employers	33
Degree(s)/Years/Specialization			BS/1981/Agricultural Engineering | BS/1982/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#22595/LA/03-31-2027		
Year Registered	1987	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Hydraulics/Drainage Lead			

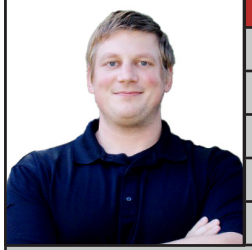
Bryan will serve as a key member of the road and drainage team, overseeing the design and engineering review process. His responsibilities will include ensuring that the preliminary and final designs meet DOTD standards and guidelines, with a focus on **drainage system improvements, pavement conditions, and right-of-way considerations**. Bryan will also provide expert input during construction phase services, ensuring adherence to specifications and **resolving any design-related issues** that may arise. His extensive experience in managing large-scale infrastructure projects will ensure **quality and timely project delivery.**

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).
03/13 – 07/22 SECTION 14 PROJECT	**I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)** **QA/QC.** Bryan performed roadway and drainage design for these three segments of I-10. He also performed superelevation computations and graphical grades to provide positive **drainage** along relatively flat grades in the median of the interstate. He was also responsible for QA/ QC of the **roadway plans** and sequence of construction for the LA 347 roundabouts and **roadway improvements**. **This project included both pavement preservation and capacity functional classifications.**
05/21 – 03/23	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** **Lead Hydraulic Engineer.** Bryan is the lead hydraulic engineer for **drainage improvements** along LA 352 in Henderson, LA. The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problems near the I-10 Henderson exit. The design also incorporates a **drainage bypass system** to balance flows near the interchange. Bryan is responsible for performing HEC-RAS modeling and HYDRO-WIN calculations on the main outfall channel, developing **drainage alternatives** and associated costs, and QA/QC on the **construction plans**.
08/18 – 10/22 SECTION 14 PROJECT	**I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)** Bryan was responsible for the evaluation and design of both the existing and proposed **drainage systems** for this new four-lane rural arterial and roadway. In addition to the standard **DOTD drainage evaluations** for storm **drain systems** (inlets, pipes, box culverts, and bridges) consideration of impacts to the surrounding floodplain storage basins and wetlands had to be considered. The floodplain area along the southern limits of the project is also bisected by the KCSRR and is subject to significant backwater and overbank flooding from Red Chute Bayou. Due to the **floodplain complexities** associated with this lateral overflow storage area, coordination with the Bossier Levee District was required which included utilizing elements of their 2-D Unsteady Flow Hec Ras Model for this region. Due to the **lateral overflows and interchange of flows**, consideration of bridge scour was evaluated for the KCSRR Overpass utilizing the HEC -RAS computer model.

Bryan Harmon resume continued

10/20 – Present	**Rural Bridge Replacement Initiative Phase II (South), LA (440001338)** Mr. Harmon is serving as Waggoner's (formerly Sigma) supervising Hydraulic Design Engineer for the Phase II Rural Bridge Replacement Initiative. Hydrologic and hydraulic evaluations are being developed to provide a hydraulically suitable replacement for the existing bridge structures that have been designated for replacement under this program. All bridge hydraulic reports, data forms, and data tables are being prepared in accordance the current DOTD Hydraulics manual and design directives.
2018-Present	**Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parish, LA (H.004791)** Waggoner (formerly Sigma) is providing the drainage design for this major highway improvement that is being designed and constructed under this alternative delivery method. Mr. Harmon is serving as the lead drainage engineer and is responsible for the coordination and proper consideration of the impacts that the large multi-jurisdictional pumped drainage outfall systems have on the project drainage system performance. Project drainage considerations include bridge deck scupper design conforming to FHWA HEC-21 requirements, and standard storm drainage piping and inlet design for associated local roadway improvements. The drainage system design must account for the final full build conditions but must also function during the various construction sequences with the addition of temporary systems.
2016 - 2019	**I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250)** Mr. Harmon is serving as the project Design & Construction Liaison for the project. He is responsible for coordinating design and construction efforts to ensure a cost effective and efficient delivery process. He also serves as a design engineer for the open ditch and subsurface drainage systems for this 6.7-mile interstate capacity improvement project for DOTD.
05/20 – Present	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** Mr. Harmon is serving as Waggoner (formerly Sigma) supervising Drainage Engineer for this major interstate improvement project from just east of the Mississippi River bridge crossing to just west of College Drive. Mr. Harmon is responsible for the final drainage design of the interstate collection systems, local frontage roads and drainage outfalls including the bridge hydraulic evaluation of the Acadian Thruway Bridge over Dawson Creek.

13. Short Resumes



Firm Employed By: Waggoner Engineering, Inc.					
Name	**Steven Gilliam, PE**			Years of Relevant Experience with this Employer	1
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization			BS/2015/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#46515/LA/09-30-2026		
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Drainage Design			

As the Drainage Lead, Steven will focus on the topographic surveys, particularly on the stationing of the project centerline and measuring cross-sections of the roadway. He will ensure that drainage structures, utilities, and other key features are accurately recorded and integrated into the final plans. Steve's attention to detail will ensure that the project designs align with the project requirements and reflect the existing site conditions. Steven brings a solid understanding of roadway and site planning design principles, as well as experience with surface water and utility engineering. He has provided engineering design for commercial and residential developments.

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).
03/22 - Ongoing	**Nail Road Extension - Polk Lane to Center Hill Road, DeSoto County, MS** **Review Engineer.** This project encompasses preliminary engineering design and bid documents for two miles of a new two-lane rural roadway, three-lanes at Polk and Center Hill for turn lanes, and five-lane earthwork on Nail Road from Polk Lane to Center Hill road.
02/23 - Ongoing SECTION 14 PROJECT	**Enterprise Boulevard Extension, Lake Charles, County, LA** **Design Engineer.** Waggoner was retained by the City of Lake Charles to perform engineering, surveying, bidding assistance, and construction administration. The project consists of extending the existing four-lane boulevard section of Enterprise Boulevard northward on a new alignment from its current intersection at Katherine Street to an intersection on N. Goos Boulevard near Woodring Street, widening N. Goos Boulevard northward to its intersection with Fitzenreiter Road, and widening Fitzenreiter Road eastward to its intersection with N. Simmons Street. The project also includes the addition of a bike path to the Riverside Park Complex consistent with the City of Lake Charles Bicycle and Pedestrian Master Plan.
04/21 - 08/23	**MOVEBR Sherwood Forest Extension, Baton Rouge, LA** **Lead Designer.** Steven's role included civil design, site grading, drainage design, and utility coordination. The project included a new two-lane highway, intersections, and wetland mitigation. (previous experience)
01/19 - 02/20	**Eagle Bend Subdivision, Livingston Parish, LA** **Lead Designer.** For this 34-lot development, Steven's role included civil design, site grading, drainage design, and utility coordination for the subdivision. The project included a re-route of a minor drainage artery, required detention basin, and assuring streets and parking met Parish standards. (previous experience)
01/21 - 12/21	**Live Oak High School Baseball/Softball Complex, Walker, LA** **Lead Designer.** Steven's role included civil design, site plan development, site grading, drainage design, and utility coordination for the new sports fields and support buildings for a new sports facility at the Live Oak High School campus. In coordination with architects Gasaway Gasaway & Bankston, the project included vehicular and pedestrian circulation improvements, with two new synthetic turf fields, bleacher seating, and a concession/restroom building. (previous experience)

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Gage Spell, LSI**			Years of Relevant Experience with this Employer	1
Title	Senior Project Designer			Years of Relevant Experience with Other(s) Employers	11
Degree(s)/Years/Specialization			BS/2017/Physical Geography		
Active Registration Number/State/Expiration Date			LSI#686/LA/3-31-2027		
Year Registered	2018	Discipline	Surveying		
Contract Role(s)/Brief Description of Responsibilities			Hydraulics		

Gage has 11 years of experience in **hydrology and hydraulics modeling, site investigation, and project management**. He has contributed to major projects, including the MOVEBR Sherwood Forest Extension and the Sorrento Pump Station Capacity Increase, where he developed 2D models to assess **roadway and pump capacity impacts**. From 2017 to 2020, he worked on the Livingston Parish Watershed Modeling project, identifying capital improvement opportunities and conducting aerial drone inspections. Over the past decade, Gage has **led drainage design and impact studies** for over 100 commercial and residential developments. His expertise in hydrologic and hydraulic modeling, project coordination, and site analysis will enhance the **roadway and drainage design and construction support** efforts, ensuring **compliance with DOTD standards** and effective flood mitigation strategies.

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).
2/23 - Ongoing	**Bolivar and Sunflower County Watershed Plan, Cleveland, Bolivar and Sunflower County, MS** **Hydrologic and Hydraulic Modeler.** Gage modeled existing conditions and proposed improvements to identify effective **solutions for repetitive flooding** in the Bogue Chitto watershed. He analyzed and compared results to provide recommendations to local and state authorities and coordinated with the project team to develop Environmental Assessments in compliance with USDA NRCS standards and requirements. Bolivar County had expressed the desire to collaborate in the development of a Comprehensive Watershed Based Stormwater Management Program to identify, analyze, quantify, prioritize, and develop a short- and long-term implementation plan for both capital and maintenance requirements needed to address **drainage-related deficiencies** throughout the **watershed area** as directly related to preserving and enhancing municipal and/or county infrastructure. Waggoner was contracted with Mississippi Soil and Water Conservation Commission to provide engineering and technical support services for six HUC-12 watersheds in Bolivar County.
5/23 - Ongoing	**Hanging Moss Creek, Jackson, Hinds County, MS, Hydrologic and Hydraulic Modeler.** Gage modeled existing conditions and proposed improvements to identify **effective solutions for repetitive flooding** in the Bogue Chitto watershed. He analyzed and compared results to provide recommendations to local and state authorities and coordinated with the project team to develop Environmental Assessments in compliance with USDA NRCS standards and requirements. Hinds County had expressed the desire to collaborate in the development of a Comprehensive Watershed Based Stormwater Management Program to identify, analyze, quantify, prioritize, and develop a short- and long-term implementation plan for both capital and maintenance requirements needed to address **drainage-related deficiencies** throughout the **watershed area** as directly related to preserving and enhancing municipal and/or county infrastructure.
5/23 - Ongoing	**Lynch Creek Pearl River, Jackson, Hinds County, MS, Hydrologic and Hydraulic Modeler.** Gage modeled existing conditions and proposed improvements to identify **effective solutions for repetitive flooding** in the Bogue Chitto watershed. He analyzed and compared results to provide recommendations to local and state authorities and coordinated with the project team to develop Environmental Assessments in compliance with USDA NRCS standards and requirements. Hinds County had expressed the desire to collaborate in the development of a Comprehensive Watershed Based Stormwater Management Program to identify, analyze, quantify, prioritize, and develop a short- and long- term implementation plan for both capital and maintenance requirements needed to address **drainage-related deficiencies** throughout the **watershed area** as directly related to preserving and enhancing municipal and/or county infrastructure. Waggoner was contracted with Mississippi Soil and Water Conservation Commission to provide engineering and technical support services for four HUC12 watersheds in Hinds County: Upper Bogue Chitto , Hanging Moss Creek, Lynch Creek-Pearl River, and Lake Ridgelea-Big Creek.

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Joshua (Josh) Renard, PE**			Years of Relevant Experience with this Employer	19
Title	Project Manager			Years of Relevant Experience with Other(s) Employers	1
Degree(s)/Years/Specialization			BS/2006/Civil Engineering		
Active Registration Number/State/Expiration Date			PE# 36015/LA/03-31-2027		
Year Registered	2011	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		SUE Services/Utility Coordination			

Josh has 18 years of experience working on subsurface utility engineering (SUE), drainage, wastewater, coastal restoration, and transportation related projects. These projects include drainage impact studies, drainage design, sewer characterization, sewer & roadway construction management, subsurface utility investigations QL-A thru D, highway design, and bridge design. Joshua will serve as the lead for conducting Subsurface Utility Explorations on this project.

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).
01/22 - Ongoing SECTION 14 PROJECT	**LA 408: Hooper Road (Blackwater Bayou to Joor Rd.) East Baton Rouge Parish, LA (H.002316/CP No. 12-CS-HC-0017)** Joshua was the project manager for the five-lane road widening project in the city of Central. This two-mile rural road includes a new two-lane roundabout and accommodates pedestrians, bicyclists and vehicles. His responsibilities included roadway and drainage design, plan preparation, utility coordination, and SUE services including QL-B designations and QL-A locates.
2019	**Subsurface Utility Engineering I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA (H.003370)** Mr. Renard coordinated with multiple utilities affected by this project. He was able to obtain detailed information on the size, type and location of the utilities in conflict or potential conflict with construction activities. These included abandoned pipelines, active fiber optic lines, buried cables with unknown ownership, and multiple utilities within KCS Railroad right of way. Mr. Renard then led the SUE team in obtaining level A location information for these utilities.
02/24- Present	**SALINE BAYOU RELIEF & MILL CR. BRS. WATER LINES LOCATE & DESIGN - SUE, Winn Parish, LA – Utility Coordination, QL-A through D Locates, & Relocation Plans.** Waggoner (formerly Sigma) is tasked with assisting LADOTD and the Bridge designer with underground water mains along three bridge replacement locations on LA Hwy. 126 over Saline Bayou, Mill Creek and Cypress Creek in Winn Parish, LA. Mr. Renard serves as the project manager for this project. His responsibilities include developing the schedule and invoicing, as well as ensuring that the SUE deliverables are performed, checked and delivered to LADOTD on time. Waggoner will obtain as-builts and then preform QL-B and QL-A SUE services at each site. Once the water line is positively located, Sigma will create utility relocation plans for each bridge location, to be used by LADOTD to ensure that the water line is moved out of conflict with the bridge replacement projects.
10/16 – 12/20 SECTION 14 PROJECT	**I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250)** Joshua served as the utility coordinator for this interstate design build project. He communicated with and gathered information from utility owners to ensure that the road was designed and the contractor could proceed without conflict. Joshua coordinated efforts to have telecommunications, water, and gas lines marked in the field and then led efforts to have Level A test holes performed to ensure a successful no-conflict design.

Josh Renard resume continued

10/23- Present	**SLIDELL SUE SERVICES, St. Tammany Parish, LA – Utility Coordination & Relocations** Waggoner (formerly Sigma) is tasked with identifying and obtaining as-builts for all utilities at three new roundabout locations on US Hwy. 190 in the city of Slidell, LA. Mr. Renard serves as the project manager for this project. After obtaining as-builts, Waggoner will serve as the utility coordinator for the LADOTD and the project designer. Waggoner will assist with mitigating conflicts through value engineering using their extensive design and utility mitigation knowledge. Waggoner will also determine financial responsibility for necessary relocations, as well as negotiate and secure utility relocation agreements, owner commitments and sign-offs for each utility in conflict with the project. Waggoner's effort will ensure that these needed road construction upgrades progress without costly utility delays.
2020-2022	**I-10: CMAR Design Build Duct Bank Plans - EWP-1** Mr. Renard in conjunction with Huval partners designed the utility ductbank relocation plans to relocate critical existing and new fiber optic and electrical power infrastructure. This immediate relocation served necessary for the fast upcoming I-10 widening project from LA 415 through Essen Lane.

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Brandon Bollich, EI**			Years of Relevant Experience with this Employer	3
Title	Engineer, Intern			Years of Relevant Experience with Other(s) Employers	6
Degree(s)/Years/Specialization			BS/2015/Civil Engineering		
Active Registration Number/State/Expiration Date			EI#32749/LA/09-30-2026		
Year Registered	2016	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		SUE Services/Utility Coordination/Bridge Load Rating			

Brandon will be focused on bridge assessment, utility coordination, and SUE services. His previous experience includes working as an engineer intern at LADOTD and was the task manager of several bridge replacement projects across the state.

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).
01/15 - Ongoing SECTION 14 PROJECT	**Pecue Lane/I-10 Interchange - Phase III, East Baton Rouge Parish, LA.** Brandon served as engineer intern for the project that included the replacement of two slab span bridges over Ward's Creek along Pecue Lane. Brandon was responsible for providing quality control by reviewing and verifying plan sheets, checking reinforcement quantities, and ensuring calculations were correctly incorporated into the plans.
2024	**S. Campus Dr. over Corporation Canal, East Baton Rouge Parish, LA.** Brandon served as an engineer intern for this project. Waggoner's scope of work involved a comprehensive evaluation of the existing lightweight precast concrete slab bridge, which is supported by a reinforced concrete cap and timber piling foundation. The project included an in-depth structural assessment to determine the bridge's current condition and load-carrying capacity. Advanced load rating techniques were employed to evaluate the performance of the precast slabs, reinforced cap, and timber piles under various loading scenarios, ensuring compliance with safety and regulatory standards.
10/12 - Ongoing SECTION 14 PROJECT	**LA 408: Hooper Road Widening, East Baton Rouge Parish, LA.** Brandon provided bridge and structural design services for this project. This project was for the widening of an existing 2-lane roadway to a 4-lane boulevard to increase capacity. The project began with an Environmental Assessment (EA) and National Environmental Policy Act (NEPA) environmental documentation. Waggoner is facilitating the development of a traffic study with a subconsultant, following criteria established by Louisiana Department of Transportation and Development (LaDOTD). Multiple roadway sections and intersection arrangements are being evaluated through a tiered approach.
2019 - Ongoing SECTION 14 PROJECT	**Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA.** Brandon provided design services for this project. Waggoner was contracted by the East Baton Rouge Parish Department of Transportation and Drainage through the MOVEBR Program to design the extension of Jones Creek Road from the existing Tiger Bend Rd intersection to a new terminus point on Airline Highway. The project includes a 2-mile 4-lane boulevard on new alignment, green infrastructure drainage features, a roundabout at Jefferson Highway, a new residential subdivision access point for an existing subdivision, a new bridge over Claycut Bayou, topographic and right of way mapping, and stormwater detention ponds to control outfall channel levels.
2018	**Bridge Replacements, LADOTD, Statewide, LA.** Brandon served as task manager of four state bridge replacement projects consisting of eight bridges at seven locations. His responsibilities included coordinating project meetings, tracking project statuses, generating divisional requests, and projecting costs. He performed several alignment studies for the bridge replacement projects and conducted site visits while analyzing relevant bridge and local conditions. Brandon created bridge plans (including general notes, general plans, superstructures, and substructures) in addition to designing bridge elements in accordance with AASHTO LRFD specifications and the LADOTD Bridge Design and Evaluation Manual.

13. Short Resumes

Firm Employed By: Waggoner Engineering, Inc.					
Name	**Eric Jefferson, PE, AICP, PTP**			Years of Relevant Experience with this Employer	6
Title	Discipline Manager - Planning & Development			Years of Relevant Experience with Other(s) Employers	25
Degree(s)/Years/Specialization			MS/2013/Urban and Regional Planning | BS/1993/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#45590/LA/9-30-2025		
Year Registered	2000	Discipline	Civil Engineering, Planning		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Environmental and Permitting | Meets MPR 4		

For this contract, Eric will oversee environmental assessments and permitting for transportation projects alongside subs, DMRP, and Horrocks. He will coordinate with regulatory agencies, conduct environmental studies, and ensure compliance with environmental laws. Additionally, he will develop permit applications, support NEPA compliance, and perform material sampling and testing. Eric has extensive experience in civil engineering and planning, managing public and private projects. His expertise includes feasibility analysis, design, planning studies, permitting, and construction administration. Certified by the Transportation Professional Certification Board and the American Institute of Certified Planners, Eric is recognized for his professional excellence.

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).
04/19 - Ongoing	**Old Highway 80 Bridge Replacement, Meridian, Lauderdale County, MS** **Senior Planner.** Eric provided permitting services for a bridge replacement project in west Meridian along Old Highway 80. Permitting services included obtaining a 404 permit from US Army Corps of Engineers (USACE), coordinating an architectural and cultural resources assessment for the Mississippi Department of Archives and History (MDAH), and preparing a construction stormwater pollution prevention plan (SWPPP) to comply with Mississippi Department of Environmental Quality (MDEQ) permit regulations. Built in 1926, the existing US 80 Bridge over Okatibbee Creek in Lauderdale County needed to be replaced. The old bridge was taken down and replaced with a new bridge that met Mississippi Office of State Aid Road Construction bridge standards. The project included environmental studies and permitting, surveying, hydraulic and hydrological analysis, bridge and roadway design, geotechnical engineering, utility coordination, and construction phase support services. Additional right-of-way and construction easements were acquired. The bridge's age and historical importance qualified it for nomination to the National Register of Historic Places, so Waggoner collaborated with the Mississippi Department of Archives and History to install a historical marker near the new bridge.
09/13 - Ongoing	**East Mississippi Intermodal Railway, Southeast Region, MS** **Senior Planner.** Eric provided planning services for the Rail Authority of East Mississippi (RAEM). After assisting the RAEM in preparing and submitting a successful application and award of Rebuilding American Infrastructure with Sustainability and Equity (RAISE) grant funds for planning, Eric will prepare a detailed National Environmental Policy Act (NEPA) evaluation of the proposed corridor. This new 56-mile rail line will connect with existing shortlines and provide continuous rail service between the Meridian Speedway and the Gulf of Mexico.
02/18 - Ongoing	**Water Treatment Plant and Water Supply Improvements, Gautier, MS** **Senior Planner.** Eric provided permitting services for a project to construct a new water well, water main, and water treatment plant upgrades for the City of Gautier, MS. Permitting services included preparing an environmental assessment for USACE and submitting a wetlands permit to the Mississippi Department of Marine Resources.
12/22 - Ongoing	**Bear Creek Watershed Plan - Environmental Assessment, Madison County, MS** **Discipline Manager.** Eric supported the public engagement team with preparation and review of public meeting materials for this project. This Mississippi Soil and Water Conservation Commission project is for flood damage reduction and water quality management. Recurrent flooding is occurring in urban areas and the plan focuses on reducing those flood hazards. A secondary purpose and benefit of the plan is to improve water quality.

Section 14

Relevant Projects

Waggoner Engineering, Inc.
Lead Design Firm

14. Relevant Projects

Firm Name	**Waggoner Engineering, Inc.**			
Project Name	I-220/I-20 Interchange Improvements & BAFB Access Design-Build	Past Performance Evaluation Category(ies)*		Road, Bridge, Traffic, Other (Project Management)
		Firm Responsibility	Subconsultant	
Project Number	H.003370	Owner's Name	LADOTD	
Project Location	Bossier Parish, LA	Owners Project Manager	Corey Landry, PE	
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA I 225.379.1065 I Corey.Landry@la.gov			
Services Commenced by this Firm (mm/yy)	8/2018	Total Consultant Contract Cost ($1,000's)	$4,411	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)	$2,166	

Project Description:

The 1-220/1-20 Interchange Improvements and BAFB Access DesignBuild Project consists of extending 1-220 as a four-lane freeway (Barksdale Access Road) south over 1-20 to proposed ramp gores for ramps W-S and S-E at Musselshell Bayou then continuing south as a four-lane rural arterial, crossing over the KCS RR, ending on BAFB property. Included is a modification of the existing 1-220/1-20 interchange to also provide direct access from 1-20 to Barksdale Access Road. Cost of the project is $72 million.

Waggoner (formerly Sigma) served as the lead roadway designer and was responsible for preparing design reports, roadway geometrics, hydraulic analysis and design for open channels and subsurface drainage, permanent striping, cross sections, clearing and grubbing plans, Stormwater Pollution Prevention Plan (SWPPP) preparation, and quantity computations. The drainage design included analyzing existing cross drains and designing new cross drains for Musselshell Bayou, which required a 1Ox10 RCB and bridge scour analysis at a second crossing.

Waggoner provided independent reviews of the transportation management plan, traffic control plans, and the Interchange Modification Report (IMR) re-evaluation.

Waggoner coordinated the above-mentioned design activities for the Builder James Construction Group, in a very compressed time frame. The scheduled time from contract execution to the beginning of construction activities was five months, and all design activities were completed in the first 11 months of the project.

Waggoner is providing construction engineering support for James Construction Group during the construction phase of the project.

Project Relevance:

- √ Project Management
- √ Road Design
- √ Hydraulics Report & Calculations
- √ Electronic Plan Development
- √ Comment & Response Logs
- √ Preliminary & Final Road Plans
- √ Construction Support
- √ Shop Drawings

Team Members Involved:

Robert Lear
Miles Williams
Alex Farr
Joshua Renard

14. Relevant Projects

Firm Name	**Waggoner Engineering, Inc.**			
Project Name	Enterprise Boulevard Extension & Bike Trail (Katherine St. to N. Stemmons)	Past Performance Evaluation Category(ies)*		Right-of-Way, Survey, Road
		Firm Responsibility	Prime	
Project Number	CP 2954	Owner's Name	City of Lake Charles	
Project Location	Lake Charles, LA	Owners Project Manager	Stacy Dowden, PE	
Owners Address, Phone, Email	326 Pujo St., 7th Floor, Lake Charles, LA 70601 | 337.491.1490 | stacy.dowden@cityoflc.us			
Services Commenced by this Firm (mm/yy)	08/24	Total Consultant Contract Cost ($1,000's)		$1.5 million
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$1.1 million

Project Description:

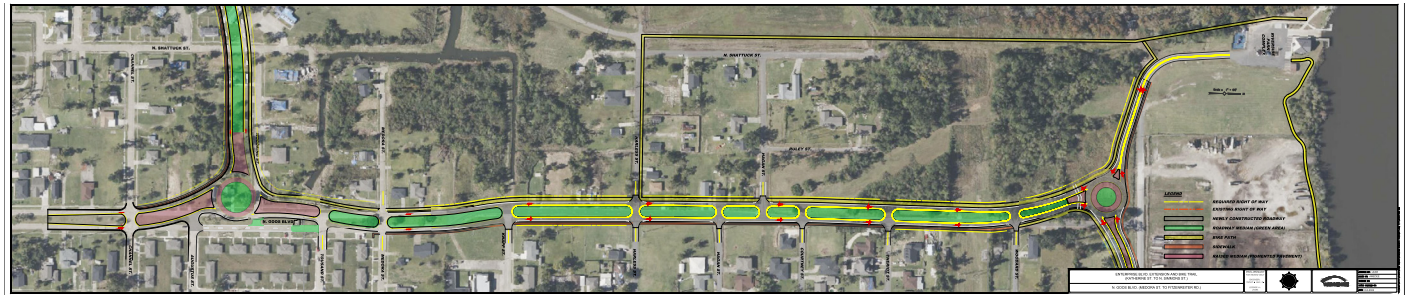
The Enterprise Boulevard Extension Project in Lake Charles, Louisiana, involves extending the existing four-lane section of Enterprise Boulevard near Woodring Street, widening N. Goos Boulevard northward to its intersection with Fitzenreiter Road, and further widening Fitzenreiter Road eastward to its intersection with N. Simmons Street. The project includes the addition of two new roundabouts—one at N. Goos Boulevard and Woodring Street, and another at N. Goos Boulevard and Fitzenreiter Road—as well as a bike path connecting to the Riverside Park Complex in alignment with the City of Lake Charles Bicycle and Pedestrian Master Plan. Waggoner Engineering, Inc. was retained by the City of Lake Charles to perform engineering, bidding assistance, and construction administration. The scope of work includes permitting, utility coordination for City water and sewer systems, public outreach, traffic analysis, and construction oversight, following the standards outlined in the City's A&E Manual, with an estimated construction cost of $26 million.

Project Relevance:

- √ Project Management & Support
- √ Topographic Survey
- √ Right-of-Way Maps
- √ Roadway Desgin
- √ Plan Preparation
- √ Cost Estimate
- √ Drainage Design
- √ Intersection Improvements
- √ SUE & Utility Relocation
- √ Environmental/Permitting

Team Members Involved:

Robert Lear
Miles Williams
Charlotte Gremillion
Bryan Harmon
Steven Gilliam
Jace Ricard
Joshua Renard



14. Relevant Projects

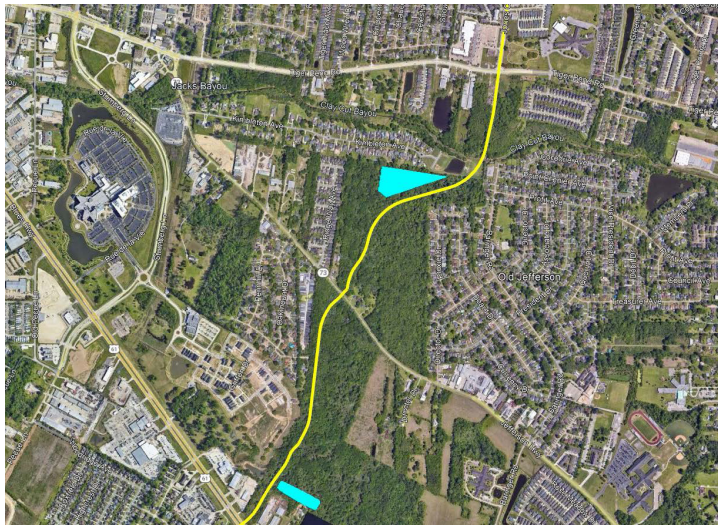
Firm Name	**Waggoner Engineering, Inc.**			
Project Name	Jones Creek Road Extension Seg. 1 B (Airline Highway to Tiger Bend Road)	Past Performance Evaluation Category(ies)*		Road, Bridge
		Firm Responsibility	Prime	
Project Number	12-CS-HC-0060	Owner's Name	East Baton Rouge Department of Transportation and Drainage	
Project Location	East Baton Rouge Parish	Owners Project Manager	Tom Stephens, PE	
Owners Address, Phone, Email	222 Saint Louis Street, 8th Floor, Baton Rouge, LA 70802			
Services Commenced by this Firm (mm/yy)	03/12	Total Consultant Contract Cost ($1,000's)		$3,222
Services Completed by this Firm (mm/yy)	07/26	Cost of Consultant Services Provided by this Firm ($1,000's)		$2,201

Project Description:

Waggoner (formerly Sigma) has been contracted by the East Baton Rouge Parish Department of Transportation and Drainage to provide planning, engineering, and topographic surveying for the proposed extension of Jones Creek Road from Airline Highway to the existing Tiger Bend Road/Jones Creek Road Intersection.

This project includes constructing a new roadway that will start at the existing intersection and proceed south to end at Jefferson Highway. This four-lane boulevard curb and gutter project includes shared-use paths and green infrastructure and requires a new bridge crossing over Clay Cut Bayou. Accommodations are being considered for a connection to a future BREC trail along the bayou. The original scope was amended to include a connection to Barringer Road and to provide pedestrian/bike access to an existing park in Old Jefferson Subdivision. When combined with other projects in the Plan, it will provide an improved north-south connection extending from southeast Baton Rouge to Central.

This project included a design study to determine design criteria, horizontal and vertical geometry, bridge type size and location, and typical sections. Special emphasis was placed on the project due to utilities, with efforts directed to minimizing real estate acquisition costs. Waggoner's efforts have continued in plan development and ROW mapping. Utility locates and relocation plans will be prepared, as necessary.



Project Relevance:

- √ Project Management
- √ Feasibility Study
- √ Topographic Survey
- √ Utility Relocations/ Coordination
- √ Drainage and Hydraulics Report
- √ Road Design
- √ Shared Use Pathway
- √ Bridge Design
- √ Preliminary and Final Plan Preparation
- √ Construction Cost Estimate-

Team Members Involved:

Miles Williams
Robert Lear
Alex Farr
Bryan Harmon
Andrew Windmann
Joshua Olivier
Jace Ricard
Joshua Renard
Kelsie Bankston

14. Relevant Projects

Firm Name	**Waggoner Engineering, Inc.**			
Project Name	Hooper Road Widening (LA 408) Blackwater - Joor	Past Performance Evaluation Category(ies)*		Right-of-Way, Road, Survey, Traffic
		Firm Responsibility	Prime	
Project Number	H.002316	Owner's Name	East Baton Rouge Department of Transportation and Drainage	
Project Location	East Baton Rouge Parish, LA	Owners Project Manager	Tom Stephens, PE	
Owners Address, Phone, Email	222 Saint Louis Street, 8th Floor, Baton Rouge, LA 70802 | 225.389.3186 | tstephens@brla.gov			
Services Commenced by this Firm (mm/yy)	10/12	Total Consultant Contract Cost ($1,000's)		$1,818
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$1,111

Project Description:

Waggoner was contracted by East Baton Rouge Parish Department of Transportation and Drainage, in cooperation with the FHWA and LADOTD, to provide NEPA environmental documentation, planning, **topographic and property surveying, ROW mapping, and preliminary and final plans** for this MOVEBR program project. Hooper Road is an existing two-lane rural roadway with steep open ditch drainage from Blackwater Road to Sullivan Road in suburban Central, LA. MOVEBR is proposing capacity and **safety upgrades** to the corridor using a four-lane boulevard with **subsurface drainage, sidewalks, bike paths, and intersection improvements**.

A formal Environmental Assessment was prepared by Waggoner and a FONSI was granted by FHWA. Waggoner prepared preliminary and final roadway and drainage plans for this 2.2-mile-long corridor. The four-lane boulevard features a 16-foot-wide raised median, 11-foot lanes, a dedicated five-foot bike lane in both east-bound and west-bound directions, five-foot sidewalks, and a new two-lane roundabout at the intersection of Hooper Road and Lovett Road. The sidewalks and pedestrian accommodations are **ADA compliant** and consistent with PROWAG guidelines. Turn lanes and R-CUT bulb outs were added to safely accommodate U-turn movements throughout the boulevard section.

The construction plans include the following:

- Typical sections
- Pay item quantities
- Roadway plan and profiles
- Drainage plan and profiles w/subsurface drainage systems
- Existing and design drainage maps
- Geometric layouts and details
- PCC pavement joint layouts and graphical grades
- Suggested sequence of construction
- Pedestrian signal plans
- Permanent striping and signing layout
- Roadway lighting plans
- Utility relocation space allocation layouts
- Cross sections

The topographic and property surveys and ROW maps were prepared in accordance to DOTD location and survey standards and deliverables. The ROW maps were reviewed by location and survey since this is a state highway.

Waggoner also performed QL-D, QL-C, QL-B, and QL-A SUE services for the project. Test holes were performed at critical conflict points. A utility conflict matrix was prepared and updated throughout the design process.

As the prime consultant, Waggoner managed the project schedule, held and documented design meetings and status meetings with the client, and participated in cost risk assessments.

Project Relevance:

- √ Project Management
- √ Road Design
- √ Drainage Evaluation
- √ Utility Coordination
- √ Comment & Response Logs
- √ Electronic Plan Development
- √ Preliminary & Final Road Plans
- √ Traffic Management Plan
- √ Topographic Survey
- √ Property Survey
- √ Right-of-Way Map
- √ Construction Support

Team Members Involved:

Robert Lear
Miles Williams
Alex Farr
Bryan Harmon
Joshua Renard
Kelsie Bankston
Jace Ricard

14. Relevant Projects

Firm Name	**Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)**				
Project Name	I-10: Highland to LA 73 Design-Build	Past Performance Evaluation Category(ies)*		Road, SUE, Traffic	
		Firm Responsibility	Prime		
Project Number	H.009250	Owner's Name	LADOTD		
Project Location	East Baton Rouge & Ascension Parishes	Owners Project Manager	Peggy Jo Paine, PE		
Owners Address, Phone, Email	P.O. Box 94245, Baton Rouge, LA 70806 | 225. 379.1065 | Peggy.Paine@la.gov				
Services Commenced by this Firm (mm/yy)	08/16	Total Consultant Contract Cost ($1,000's)	$2,200		
Services Completed by this Firm (mm/yy)	10/20	Cost of Consultant Services Provided by this Firm ($1,000's)	$2,200		

Project Description:

Waggoner (formerly Sigma) was the lead design firm for this $72 million Design- Build Project to increase capacity on Interstate 10 in East Baton Rouge and Ascension Parishes. Waggoner led the design coordination for this project and performed all roadway design, maintenance of traffic design, transportation management planning, subsurface utility investigations, and utility coordination. Waggoner also assisted in the public and stakeholder information outreach which included three meetings and coordinated outreach.

The project consisted of six-laning I-10 for 6.8 miles between the Highland Road Interchange and LA 73. The first 3.6 miles is an urban section with a concrete median barrier, a portion of which has permanent lighting included. The last 3.2 miles is a rural widening section with a 12-foot travel lane and 12-foot shoulder added to the inside of the existing travel lanes. The Highland Road Overpass was completely replaced with a new steel main span bridge, the Bayou Manchac Bridges were widened to three lanes in each direction, and the LA 948 Bridge of I-10 was repaired and raised.

Waggoner coordinated all design activities for the Builder, James Construction Group, in a very compressed time frame. The time from contract execution to the beginning of construction activities was five months and all design activities were substantially complete in the first nine months of the project.

The road design components include typical sections, horizontal and vertical geometrics with existing bridge structures constraining the design parameters, geometric details, and a detailed analysis of the sequence of construction that will maintain two-lanes of traffic in each direction. A Level 4 Transportation Management Plan was also developed by Waggoner.

SUE QL-B and QL-A locates were performed by Waggoner for a large diameter water line and multiple fiber optic lines at Highland Road.

Project Relevance:

- √ Project Management
- √ Road Design
- √ Plan Preparation
- √ Cost Estimate
- √ Public Outreach
- √ Traffic Management Plan
- √ Sequence of Construction
- √ Subsurface Utility Investigation
- √ Construction Support

Team Members Involved:

Robert Lear
Greg Sepeda
Alex Farr
Lance Amedee
Donnie Thymes
Bryan Harmon
Jenee Gibbs
Joshua Oliver
Jason Crain
Jamal Yarbrough
LaMalta Robins
Derek Wheat
Joshua Renard

14. Relevant Projects

Firm Name	**Waggoner Engineering, Inc.**			
Project Name	I-10: LA 347 to Atchafalaya Floodway Bridge	Past Performance Evaluation Category(ies)*		Road, Survey, Traffic
		Firm Responsibility	Prime	
Project Number	H.003014	Owner's Name	LADOTD	
Project Location	St. Martin Parish	Owners Project Manager	Nick Olivier, PE	
Owners Address, Phone, Email	PO Box 94245, Baton Rouge, LA 70806 | 225.379.1133 | nicholas.olivier@la.gov			
Services Commenced by this Firm (mm/yy)	6/13	Total Consultant Contract Cost ($1,000's)		$852.7
Services Completed by this Firm (mm/yy)	7/22	Cost of Consultant Services Provided by this Firm ($1,000's)		$852.7

Project Description:

Waggoner (formerly Sigma) was the prime consultant for this project which included topographic and control surveying, interstate highway design, **diamond interchange design with roundabouts at the ramp termini**, and roadway improvements to LA 347.

Waggoner performed the topographic survey which included four bridges, a wooded median, drainage structures and outfalls, interchanges, roadways along LA347 and LA352, and utility crossings. LADOTD survey and linework codes were used in the field. Waggoner used Inroads Survey, CADconform, and LADOTD codes to prepare the topographic map and required .fwd, .dtm, and .alg files for this project.

The interstate design included three lanes in the WB direction and two lanes in the EB direction separated by either a median barrier or a wooded median. A complex sequence of construction was developed to allow for **construction of new ramp termini at LA 347 with roundabouts** and to handle traffic at the Atchafalaya Basin Bridge for approach slab construction. **Waggoner coordinated closely with DOTD Bridge Design section (Andrew Windmann, now with Waggoner, was the lead designer), which was responsible** for bridge widening at two locations. Detailed hydraulic analysis of the outfall channel adjacent to LA352 including HEC-RAS modeling was conducted by Waggoner to alleviate flooding problems at the interchange.

Waggoner assembled the multi-discipline plan set, quantities, and pay items and worked with DOTD Project Management to develop the estimated construction costs. Waggoner is currently providing construction support.

Road Design (Preliminary & Final Plans)

- Expedited Schedule
- Interstate Highway Design
- **Interchange Design - Roundabout Design**
- Typical Sections - PCC and Asphalt Alternatives
- **Open Ditch and Subsurface Drainage Design**
- **Plan Profiles**
- **Geometric Details**
- **Complex Sequence of Construction**
- Level 4 Traffic Management Plan
- **Cross Sections**
- Permit Sketches
- Coordinated Roadway Lighting with Sub
- **Utility Conflict Matrix and Coordination with District Utility Engineer**
- Construction Support
- **Multi-Discipline Plan, Pay Item, Cost Estimate Assembly**
- QA/QC Checklist

Project Relevance:

- √ Project Management
- √ Topographic Surveys
- √ Traffic Control Design
- √ Traffic Signal Analysis & Design
- √ Preliminary & Final Roadway Design
- √ Plan Preparation
- √ Cost Estimate
- √ Hydraulic Analysis & Design
- √ Special Provision Development
- √ Transportation Management Plans
- √ QC/QA Plan Reviews
- √ Construction Support

Team Members Involved:

Robert Lear
Miles Williams
Alex Farr
Bryan Harmon
Joshua Renard
Andrew Windmann

14. Relevant Projects

Firm Name	**Waggoner Engineering, Inc.**			
Project Name	I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR	Past Performance Evaluation Category(ies)*		Road, Traffic
		Firm Responsibility	Subconsultant	
Project Number	H.004100	Owner's Name	LADOTD	
Project Location	East Baton Rouge & West Baton Rouge Parishes	Owners Project Manager	Nick Olivier, PE	
Owners Address, Phone, Email	PO Box 94245, Baton Rouge, LA 70806 | 225.379.1133 | Nicholas.Olivier@la.gov			
Services Commenced by this Firm (mm/yy)	10/20	Total Consultant Contract Cost ($1,000's)		$29,583
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$4,170

Project Description:

Waggoner (formerly Sigma) is the lead **roadway design** team member for this transformational transportation improvement for the Capital Region. It is being delivered in an accelerated time frame by an alternative delivery CMAR process. Waggoner's primary responsibility includes geometrics and **road design** for the frontage roads, ramps, and local roadway upgrades. Waggoner is also responsible for the **drainage design** for the entire project, which includes subsurface and open ditch systems.

The road design components include typical sections, plan profiles, drainage plan profiles, geometric layouts, geometric details, graphical grades, cross sections, complete streets pedestrian and bicycle facilities, **pay item and quantity computations**, and non-standard special provisions. Waggoner prepared all **design reports** for the project which included interstate, ramp, urban arterial, urban collector, local roads, and roundabout classifications. All associated **design waivers** and **design exception documentation** was also prepared by Waggoner. All plan development is being performed in accordance with DOTD **electronic delivery standards**.

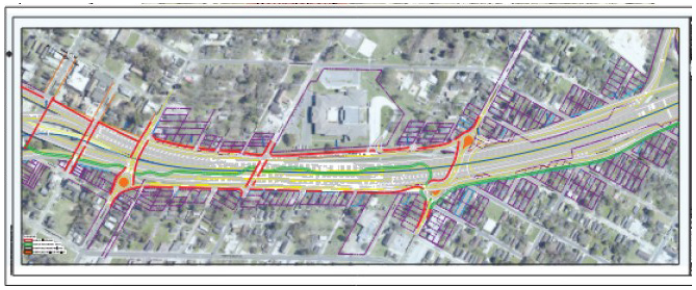
Traffic engineering responsibilities include providing geometrics and alternatives for the IMR, complex urban and freeway geometrics, construction phasing, and **suggested sequence of construction/MOT**.

Waggoner also served as a subconsultant for the Environmental Assessment NEPA process.

Waggoner was responsible for the line and grade study geometrics, interchange alternatives, community connections meetings, public meetings and workshops, researching and compiling as-built plans, constructability reviews, opinion of probable costs, and ROW limits.

Waggoner also prepared SUE and **utility relocation plans** to consolidate utilities into a major duct bank. The duct bank minimizes the need for multiple relocations during project phasing and is a significant cost savings. Waggoner participated in utility coordination with DOTD, East Baton Rouge Parish, and several utility companies.

Construction support includes shop drawings reviews, review and responses to RFIs, and review of contractor proposals made throughout the CMAR process.



Project Relevance:

- √ Project Management
- √ Road Design
- √ Drainage Evaluation
- √ Utility Coordination
- √ Comment & Response Logs
- √ Electronic Plan Development
- √ Preliminary & Final Road Plans
- √ Right-of-Way Map
- √ Construction Support

Team Members Involved:

Robert Lear
Miles Williams
Bryan Harmon
Alex Farr
Joshua Renard
Kelsie Bankston
Charlotte Gremillion
Jace Ricard

14. Relevant Projects

Firm Name	**Waggoner Engineering, Inc.**			
Project Name	I-49 South: Ambassador Caffery & US 190 Interchange	Past Performance Evaluation Category(ies)*		Road, Bridge, Traffic, Other (Project Management)
		Firm Responsibility	Subcontractor	
Project Number	I H.002868	Owner's Name	LADOTD	
Project Location	Lafayette Parish	Owners Project Manager	Ryan Morvant, PE	
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 708021225.379.1067 I Ryan.Morvant@la.gov			
Services Commenced by this Firm (mm/yy)	1/13	Total Consultant Contract Cost ($1,000's)	Unknown	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)	$1,294.8	

Project Description:

The 1-49 Ambassador Caffery project upgrades an existing at-grade intersection on US 90 with a grade separated X-Pattern interchange on Future 1-49. It includes two-lane one-way frontage roads, U-turns, MSE Walls, subsurface and open drainage systems, and signalized ramp intersections. The project also was designed to accommodate future flyover directional ramps to Ambassador Caffery Pkwy and continuation of the interstate and frontage roads southward.

Waggoner is a major subconsultant for this project and was responsible for all roadway geometrics for the interstate, frontage roads, urban arterials, ramp connections, intersections, and transitions to existing roadways.

Waggoner also prepared all existing and design drainage calculations and drainage plan profiles.

All bridge design for the 1-49 bridges over Ambassador Caffery were designed by Waggoner. We coordinated with Huval & Associates who designed the bridges over the BNSF Railroad at the north end of the project. Additional design responsibilities included traffic signal design, utility conflict matrix development, and construction support.

Waggoner is currently providing construction support, including shop drawing reviews, RFI's, change orders, and on-call services as needed.

Project Relevance:

- √ Project Management& Support
- √ Quality Control & Peer Reviews
- √ Traffic Engineering & Design
- √ Roadway & Hydraulics
- √ Bridge Design
- √ Plan Development & Letting Support
- √ Construction Support

Team Members Involved:

Robert Lear
Miles Williams
Alex Farr
Bryan Harmon
Joshua Renard
Joshua Olivier
Kelsie Bankston
Andrew Windmann

14. Relevant Projects

Firm Name	**Waggoner Engineering, Inc.**			
Project Name	Pecue Lane/1-10 Interchange - Phase III	Past Performance Evaluation Category(ies)*		Bridge
		Firm Responsibility	Subconsultant	
Project Number	H.003047	Owner's Name	East Baton Rouge Parish	
Project Location	Baton Rouge, LA	Owners Project Manager	Tom Stephens, PE	
Owners Address, Phone, Email	1100 Laurel St, Baton Rouge | LA 70802 |225.389.3186 | tstephens@brla.gov			
Services Commenced by this Firm (mm/yy)	2016	Total Consultant Contract Cost ($1,000's)		$750, 000
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$230,000

Project Description:

East Baton Rouge Parish, with assistance from the US Department of Transportation and Development (USDOT) and the Federal Highway Administration (FHWA) is developing preliminary and final engineering plans for the construction of a diverging diamond interchange with multiple through and turn lanes on Pecue Lane, an entrance ramp and exit ramp on eastbound 1-10, an entrance ramp and exit ramp on westbound 1-10, replacing the current two lane overpass bridge, replacing the Pecue Lane/Wards Creek Bridge.

Waggoner is contracted to Shread-Kuyrkendall & Associates, Inc. to provide design services to the East Baton Rouge Parish Department of Transportation and Drainage. Specifically, Waggoner's scope includes the evaluation and design of parallel bridges along Pecue Lane over Wards Creek, and the evaluation and widening of the 1-10 bridges over Wards Creek to accommodate the on/off ramps. Unique geometric needs, along with considerations for a new multi-use pathway beneath the first span of the new bridges required special attention to detail and elevations during final plan development.

As-designed LRFR bridge ratings were provided for all bridges involved in this project.

Waggoner is currently providing ongoing construction related engineering services (CRES) on the bridge-related contractor submittals. Services include the review of structural fabrication drawings for components designed by Waggoner, review of contract Requests for Information (RFIs), and review of contractor plan modifications from changes in field condition.

Project Relevance:

- √ Bridge Assessment
- √ Bridge Design/ Rehabilitation
- √ Close-out Management

Team Members Involved:

Robert Lear
Andrew Windmann
Josh Gonya
Joshua Renard
Joshua Olivier
Brandon Bollich

14. Relevant Projects

Firm Name	**Waggoner Engineering, Inc.**			
Project Name	I-10: LA 30 to LA 22	Past Performance Evaluation Category(ies)*		Bridge, Road, SUE, Survey
		Firm Responsibility	Prime	
Project Number	H.009276	Owner's Name	LADOTD	
Project Location	Ascension Parish	Owners Project Manager	Peggy Jo Paine, PE	
Owners Address, Phone, Email	P.O. Box 94245, Baton Rouge, LA 70806 | 225.379.1065 | peggy.paine@la.gov			
Services Commenced by this Firm (mm/yy)	06/12	Total Consultant Contract Cost ($1,000's)		$2,258.8
Services Completed by this Firm (mm/yy)	12/18	Cost of Consultant Services Provided by this Firm ($1,000's)		$1,044.1

Project Description:

Waggoner (formerly Sigma) was the prime consultant for the widening of I-10 between LA 30 and LA 22 in Ascension Parish. The scope of work includes topographic surveying, SUE services, geotechnical investigations, roadway design and bridge design. Waggoner worked closely with our field surveying subconsultant to create the base topographic mapping and field roll necessary for plan production. Waggoner was responsible for all field roll drafting, digital terrain modeling, and utility mapping for the project.

The road design includes adding an additional travel lane in both directions by widening to the inside. Existing cross slopes will be maintained to provide a smooth driving surface. A wooded depressed median is located through a majority of the corridor and will remain in place. The widening is designed to maintain two lanes of traffic throughout the construction zone.

The bridge design includes widening existing structures using the latest LADOTD Bridge Design Manual (LRFD), replacement of existing approach slabs, and review/ replacement of existing underpass lighting. Under a supplemental agreement, Waggoner designed the replacement of the existing LA 941 bridge overpass. The design of the new LA 941 structure utilized the newly developed "LG" prestressed concrete.

Project Relevance:

- √ **Surveying**
  - Control Surveying
  - Topographic Surveying
- √ **Final Plans**
  - Typical Sections
  - Plan Profiles
  - Bridge Design
    - Slab Spans

Team Members Involved:

Greg Sepeda
Miles Williams
Robert Lear
Josh Renard
Bryan Harmon
Lance Amedee
Donnie Thymes
Derek Wheat
Josh Oliver

Section 15

Additional Information

Waggoner Engineering, Inc.
Lead Design Firm

15. Additional Information

THE WAGGONER TEAM

Nothing matches having a consultant with LADOTD experience at your fingertips. Waggoner has partnered with Lazenby & Associates, Inc., APS Engineering and Testing, LLC, and Vectura Consulting Services, LLC, to provide Bossier Parish Police Jury (BPPJ) with a team that has an excellent track record of successful project delivery. All members of the Waggoner team have previously worked together on LADOTD projects and are committed to providing the dedication and quality services required for this project.

The key personnel assigned to this project are the same individuals who have gained critical experience on similar projects. This will ensure that BPPJ receives the highest caliber services and expertise necessary for success.

Communication will be a primary key to success. We intend to discuss BPPJ's expectations and how the Waggoner team intends to meet and exceed those expectations during the project negotiation, scoping and schedule development process. Decisions will be documented and carried forward throughout the entire life of the project.

The Waggoner team project manager, Robbie Lear, will actively work the project schedule, monitor the budget, and forwardly orchestrate the design team to meet the project goals.

The most important key to project delivery success is quality control. Waggoner has a rigorous quality control process that will be incorporated throughout the life of the contract. Every submittal will be reviewed for both technical accuracy and relevant content.

PROJECT BACKGROUND AND UNDERSTANDING

Waggoner understands the purpose and need of the project: to improve area-wide vehicular mobility and safety by introducing a new east-west thoroughfare within the central, unincorporated portion of Bossier Parish with the intent of alleviating overall congestion by attracting diverted traffic from linked facilities in the roadway network. The new corridor will be forward-thinking to accommodate the rapidly growing, and future planned, residential areas of Bossier Parish to the employment centers of Shreveport and Bossier City.

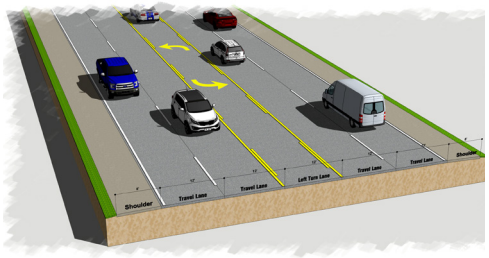


Figure 1: Phases 1-3: 5-Lane Section

With the expansion of Barksdale Air Force Base (BAFB) and its infrastructure, the need for support to the resulting increased families and businesses in the area. This includes improved access for people and goods through the area, improved access to hospitals and medical facilities, providing better connectivity across the entire study area, and relieving future congestion problems in the area network.

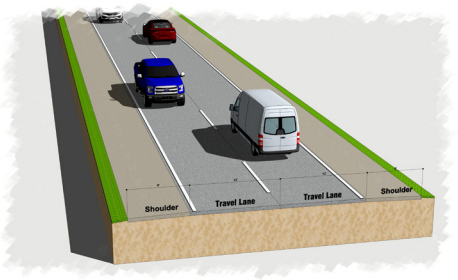


Figure 2: Phase 4: 2-Lane Section

The Northwest Louisiana Council of Governments (NLCOG), along with BPPJ and LADOTD, propose to provide a new eight-mile, five-lane Urban Collector roadway, extending from LA 3 (Benton Rd.) at the western end to one mile east of Swan Lake Rd (Figure 1), designated as Phases 1 through 3 of the proposed project. From this point eastward, the intent is to maintain the Urban Collector designation while providing a two-lane roadway (Figure 2) extending just east of the intersection of Bellevue Rd. and Winfield Rd. The last segment, designated as Phase 4, proposes to acquire the required R/W for the full five-lane build out during this project with the intent to widen the two-lane section to the full build section if/when warranted by future traffic demands. Knowing these future intentions during design will allow our team to plan for the future widening to ensure that decisions made in the present, will not prohibit, or negatively impact, the future widening. The limits of all four phases along the Selected Alignment can be seen in Figure 3 below.

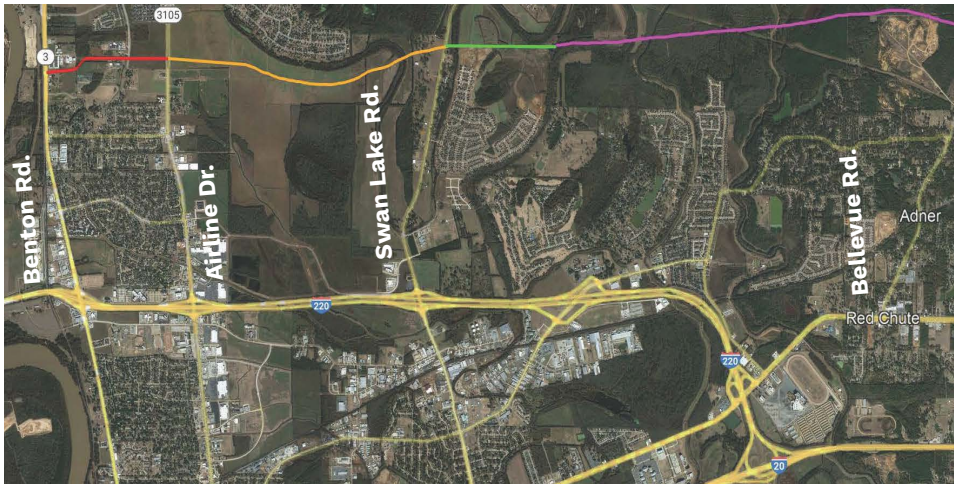


Figure 3. Selected Alignment and Project Phases

Residential Relocations

The EA identified one required relocation near the western terminus with Benton Rd. for the selected alignment, along with 2 residences located within 50 feet of the construction limits. With significant development occurring since the EA was published, our team will reevaluate the selected alignment for any additional properties that may be affected.

Gas Pipeline Coordination

The selected alignment proposes 7 intersections with an existing gas distribution pipeline. Early utility location and coordination will be essential in planning out all pertinent relocations and/or avoidances.

Floodplain Impacts

Any introduction of a new thoroughfare through this FAA would have impacts to the floodplain created by the proximity to the various bayous, chutes, and creeks. Our preliminary design will analyze the existing drainage pasterns and take measures to minimize impacts to the area and surrounding developments.

METHODOLOGY

Project Management

The LADOTD Project Delivery Manual (PDM) will serve as the backbone for our methodology. The Waggoner team will implement the systematic plan and principles identified in the PDM and applicable discipline manuals for all projects under this contract.

Scope and Task Development: Immediately after award of contract, Waggoner will work with the BPPJ PM to develop the scope and items necessary to deliver the project. This includes defining the project's purpose and need. We recommend an initial scoping meeting with BPPJ where we can discuss the critical project issues mentioned in the project background section above. This will allow BPPJ to provide comments and make decisions that will help finalize the scope for design. Once the scope is settled, we will work with the project manager to develop the engineering fee estimate, and conceptual delivery schedule. This early coordination ensures that BPPJ and Waggoner are on the same page regarding the project goals, deliverables, and expectations.

Kick-Off Meeting/Pre-Design Planning Conference and Work Planning: Once a Notice to Proceed is issued, Waggoner will schedule and facilitate a project kickoff meeting with BPPJ, preferably in person. The appropriate BPPJ and Waggoner team members will walk through the project scope, determine the dates for milestone deliverables and estimate BPPJ review periods at each milestone. The project design criteria, NEPA mitigations, and safety concerns will also be discussed and documented.

Any BPPJ provided services/documents, whether already identified in the advertisement or as additionally identified by Waggoner, will be requested at this meeting. All project points of contact with contact information will be collected and minutes of the meeting distributed to all pertinent personnel within three business days.

Project Tracking and Management: Robert Lear, PE, LSI, with over 29 years of experience in successfully managing and delivering transportation projects in Louisiana, will be the project manager responsible for all administrative and management duties.

Robert will track all project activities and ensure the project stays on schedule, and on task. Any alterations to the project schedule will be highlighted in monthly project schedule updates (MS Project) and in progress reports submitted with monthly invoices. Any notable changes will be communicated with the BPPJ PM immediately upon realization of said changes. To ensure the project communication remains consistent and any concerns from the client are fully conveyed and addressed, Robert will schedule and facilitate periodic coordination meetings with the BPPJ PM and project team.

Meeting minutes will subsequently be provided for any such meetings to properly document these discussions and any changes to expectations, scope, or unexpected issues that may have been discovered.

Topographic Survey and Drainage Maps

Lazenby & Associates, will perform all survey services on this project, including establishing control, collecting field data, processing survey data, and creating digital files. All existing utilities in the survey area will be identified, marked by third party, and captured in the survey. All coordination with obtaining permission to access from property owners will be coordinated through BPPJ prior to initiating fieldwork.

As this project is located in a designated 100-year floodplain (Zone AE), Lazenby will develop drainage maps for the project area. Lazenby has a long-established presence in North Louisiana, including performing work on numerous corridor-scale projects for LADOTD in the NLCOG area. For more in-depth information pertaining to these services, please refer to Section 15 on Lazenby's form.

Right-of-Way Services

All ROW services required on this project will be handled by Lazenby, and will satisfy all LADOTD Location and Survey requirements. Lazenby will perform necessary research and additional field survey to establish existing property lines. BPPJ will supply title reports, title takeoffs, and title updates as needed to complete the property survey.

Base and Final ROW Maps will be created to overlay the project geometry

with the existing property lines.

The final maps will establish the number of impacted parcels, and the quantity of area impacted for real estate appraisers representing the parish to use in providing fair-market value to the affected property owners. Refer to Lazenby's standard form (attached to this form) for more details associated with anticipated right-of-way services.

Road & Drainage Design

The road and drainage design will be performed by Waggoner. The LADOTD Minimum Design Guidelines will be used to prepare Design Reports for each functional class of roadway. The LADOTD Road Design Manual, AASHTO Green Book 2018, Roadside Design Guide, LADOTD Hydraulics Manual and accepted LADOTD reference material will be used to guide the road design process. LADOTD's HydroWin software will be the primary tool for hydraulic design on the project.

The preliminary plan phase will focus on establishing the horizontal and vertical geometrics, typical sections, drainage design, cross sections, and conceptual sequence of construction components. The final plans phase will provide full details and quantity computations for the project.

Bridge/Structural Design Services

The project calls for five new stream crossings along the selected alignment, initially sized for two cast-in-place slab bridges and three precast prestressed LG girder bridges. The first two crossings of Willow Chute are planned to accommodate the five-lane full-build section. The remaining three bridges, crossing Willow Chute, Flat River Drainage Canal, and Red Chute, will be designed and detailed to support a two-lane roadway section. Considerations for the future four-lane build out will be taken into account during the Hydraulic Analysis will satisfy future widening requirements, and detailing of these bridges, such that the future widening will satisfy design requirements and bridge details will consider the impact to future widening design and detailing.

At the onset of the project, Waggoner will provide a thorough design criteria for all five bridges, outlining the intended metrics for which the bridges will be designed and detailed. As part of the 60% Preliminary Plan submittal, the initial Type, Size, and Location (TS&L) of each bridge will be featured in the bridge plans of the deliverable. The presented bridge will have elevations established through the bridge hydraulic modeling, such that the Base Flood Elevation (BFE) is not increased.

Waggoner will provide any necessary structural analysis, design, and detailing that may be required to facilitate construction of the bridges on the proposed alignment, including any bridge skew or vertical geometry. Best practices will be considered to size the bridge for efficiency such that construction and life-cycle costs are considered.

A final calculation document will be bound, including all calculations associated with the five bridge sites and their structural components. This will include the final design criteria, along with the final engineer's estimate for construction cost. At the outset of the bridge tasks, we will prepare an LRFR as-designed bridge rating, and corresponding rating files and reports, for each new bridge structure. Upon final construction acceptance and initial bridge inspection, we will verify the As-built rating, by identifying and capturing any changes from the design and updating the rating model, and rating reports, with the as-built details. All work will be in accordance with the appropriate design code(s) and LADOTD design manuals, including the latest editions of AASHTO LRFD Bridge Design Specifications, the Manual for Bridge Evaluation, and the LADOTD Bridge Design and Evaluation Manual.

Bridge Hydraulics and Scour Design

All bridge hydraulics and scour analyses will be conducted in accordance with Bossier Parish flood ordinances, as well as LADOTD, FHWA, and FEMA design policies. Fifty three percent of the project area is located in the 100-year floodplain, designed Zone AE, with an additional six percent of the project area traversing established floodways. Our team will establish bridge elevations that provide adequate clearances to achieve a "No-Rise" Certification. The unrestricted condition and proposed bridge alternative will be modeled in HEC to generate flow rates, establish water surface elevations, and compute estimated scour due to the introduction of bridge foundations into the channel. Bridge foundations will be appropriately sized to account for any estimated pier and abutment scour. A comprehensive bridge hydraulics report, outlining our procedures, model inputs and outputs, and recommendations will be developed and sealed for each bridge site and submitted to the Bossier Parish Floodplain Administrator for final approval.

Geotechnical Services

All geotechnical investigation, exploration, testing, and design will be performed by APS Engineering and Testing, LLC. APS specializes in these preconstruction services and in performance monitoring and construction quality assurance inspection and testing. The firm brings a wealth of experience in the transportation and infrastructure area with their long-standing relationship with Louisiana government agencies and their hyper-familiarity with Louisiana soils.

Refer to APS's Standard Submittal Form for more discussion on these services.

Preliminary & Final Plan Preparation

The preliminary and final plan development process will mostly follow the Road Design Tasks for Completion Milestones chart shown as Figure 1-03 in the LADOTD Road Design Manual. For the sake of project timeliness, it is

recommended that milestone submittals be made at the 60%, 90% and 100% Preliminary Plan stages and at the 90% and stamped/signed 100%

Final Plan stages. These submittals will include plans and associated calculations as defined in the advertisement. Bridge and roadway design will work in conjunction to ensure that the approach roadway and proposed bridge section are compatible.

All required documentation such as review comments and responses, QA/QC certifications, Constructability Review Forms and calculations will be submitted with each appropriate delivery milestone.

SUE and Utility Relocations

Subsurface Utility Engineering (SUE) services are expected on this project. Although this task will be provided by LADOTD, Waggoner has extensive experience with SUE Services for LADOTD. We have 2 current SUE contracts with LADOTD and can effectively communicate with any consultants and identify critical conflicts.

Traffic Design Services

Vectura will lead all traffic design efforts on this project. While traffic engineering services are not explicitly prescribed in the advertisement, these services are necessary to complete this project. The anticipated services that our team will provide are further discussed in Vectura's Standard Submittal Form.

Opinion of Probable Construction Costs, Pay Items & Quantities

The preparation of opinions of probable construction costs (OPCC) will be prepared, beginning at the 90% Preliminary Plan milestone and updates with every subsequent submittal.

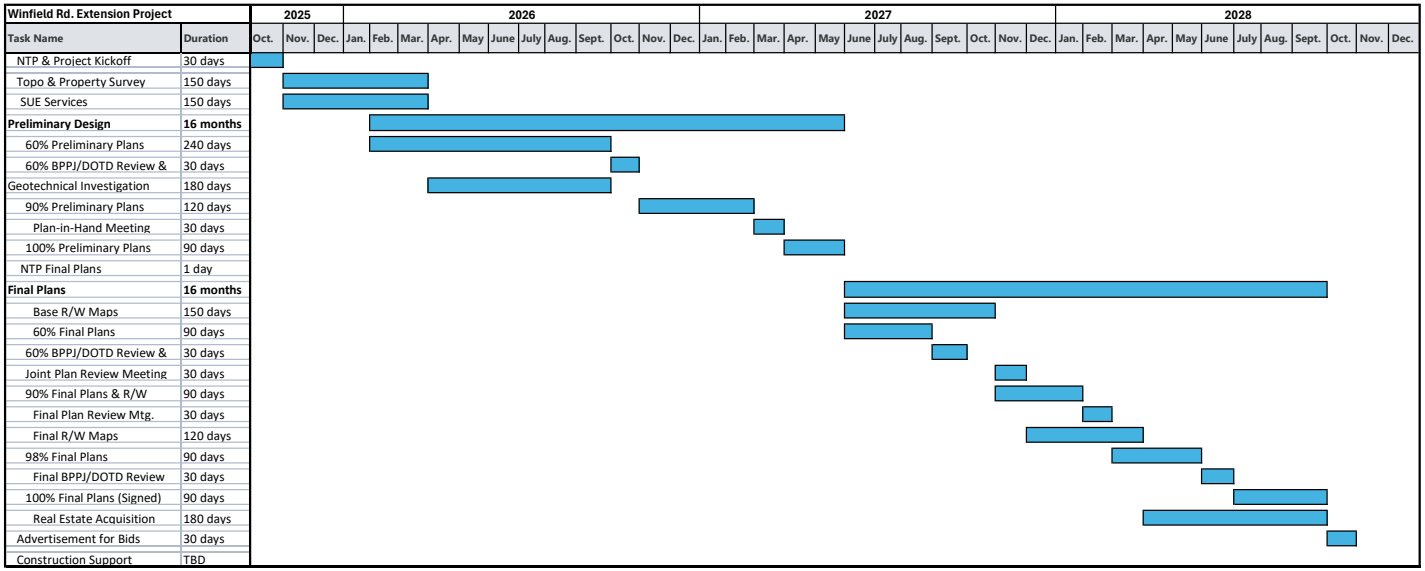
The Waggoner team design professionals have extensive experience in the LADOTD Purple Book, Pay Item list, Special Provisions, and developing specifications for Non-Standard items. We have experience with and understand the requirements for breaking down quantities by construction funding sources and by project phases.

Construction Related Engineering Services (by future supplement)

Waggoner and APS will remain involved with the project into the construction stage. This includes working with the BPPJ Project Manager and the CE&I consultants to address RFI's, assisting with solutions to unforeseen field conditions, reviewing project submittals from the contractor, and preparing plan changes when necessary. We will review each of these submittals to ensure conformity with the contract plans and specifications. APS will provide load testing verifications and Construction Monitoring for any drilled shafts or piles called for in the plans.

Project Schedule

Waggoner has worked on numerous LADOTD projects and understands the delivery and production processes for this type of project. This allows our team to "hit the ground running" and accelerates the project initiation phase, which is a large part of the work effort. We have prepared a schedule of the major milestones and deliverables anticipated in this contract.



Section 16

Contracts Meeting Criteria

Waggoner Engineering, Inc.
Lead Design Firm

16. Workload

Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
44-19010, H.010652	LA 73: US 61 (Airline) – Essen Lane	$2,349
44-19010, H.010116	LA 1088: Soult and Trinity Roundabouts	$27,765
unavail, H.004791	Belle Chase Bridge & Tunnel Replacement	N/A
44-18646, H.004100	I-10: LA 415 to Essen Lane on I-10 and I-12	$1,354,387
44-24084, H.009300	CMAR Contract for Hooper Road Widening (LA 3034 - LA 37)	$346,158
4400004666, H.002868	Ambassador Caffery & US 90 Interchange Construction Support	N/A
4400029912 (formerly 4400019338)	Rural Bridge Replacement Initiative Phase II (South) (16 Project #s)	$398,649
4400029918 (formerly 4400025041)	IIJA Off-System Bridge Program, District 62 (6 Project #'s)	$241,200
44-19379, H.013797	LA 30: EBR PL - I-10 (Environmental Assessment)	$86,020
44-29915, H.004526	LA 1: Leeville to Golden Meadow (Phase 2) Permitting	$162,316
4400029911, H.001711	Saline Bayou Relief & Mill Creek Bridges	$14,487
4400029911, H.014375	US 190W Roundabouts SUE Coordination	$37,210

Waggoner Engineering, Inc.
(formerly Sigma Consulting Group, Inc.)

Quality Assurance/Quality Control Plan for Bridge Design Projects

ENTITY CONTRACT FOR CONGESTION RELIEF
WINFIELD ROAD
Bossier Parish Police Jury

Parish Contract No. 2025-118
State Project No. H.003855

This document is a supplement to Waggoner's Quality Assurance/Quality Control Plan dated August 2020

June 2025

CONTENTS

I. Introduction

At Waggoner Engineering, Inc. (formerly Sigma Consulting Group Inc.), we emphasize good communication as the key component in achieving excellence. This communication begins with our firm's mission, and continues with goals, company procedures, and then periodic feedback for making changes.

The procedures are what guide our day to day quality efforts. They are organized into company procedures and project procedures. Our method for assuring quality over the long term is addressed in our mission, quality goal, and feedback.

This document establishes the minimum requirements for the Quality Control (QC) and Quality Assurance (QA) for all LADOTD bridge design projects, with specific references to this project where services are being performed for Bossier Parish Police Jury (BPPJ).

Waggoner is fully responsible for the QC/QA of our work, and the work of all subconsultants. All subconsultants are to adhere to these guidelines also. **Bossier Parish Police Jury nor LADOTD is not responsible for performing QC/QA of Waggoner's or their subconsultants' work.**

II. References

- Quality Control/Quality Assurance Plan. 2020. Waggoner Engineering, Inc.
- LADOTD Bridge Design and Evaluation Manual, Part I – Policies and Procedures, Chapter 3: Policy for QC/QA
- Policy on Quality Control and Quality Assurance. 2012. Louisiana Department of Transportation and Development, Bridge Design Section
- Guidance on Quality Control and Quality Assurance (QC/QA) in Bridge Design. 2011. Federal Highway Administration.

III. Definitions

Quality Control (QC) - Procedures of checking the accuracy of the calculations and consistency of the drawings, detecting and correcting design omissions and errors before the design plans are finalized, and verifying the specifications for the load-carrying members are adequate for the service and operation loads.

Quality Assurance (QA) - Procedures of reviewing the work to ensure the quality controls are in place and effective in preventing mistakes, and consistency in the development of bridge design plans and specifications.

Designer - An individual directly responsible for the development of design calculations, drawings, specifications and contract documents and review of shop drawings related to a specific bridge design with a level of technical skills and experience commensurate with the complexity of the subject structure or structures being designed. The designer must be licensed by the State of Louisiana as an engineer intern or a professional engineer.

Detailer - The detailer is the individual directly responsible for the creation of CAD drawings.

Checker - An individual responsible for performing a full technical review of the structural design calculations, drawings, specifications and contract documents. The checker must be licensed by the State of Louisiana as an engineer intern or a professional engineer. If the designer is an engineer intern, then the checker must be a professional engineer.

Reviewer - An individual responsible for performing QA procedures for assuring that QC procedures have been performed. The reviewer must be licensed by the State of Louisiana as a professional engineer and have substantial experience in the design of similar structures.

Engineer of Record - An individual responsible for all bridge structural aspects of the design of the structure including the design of all of the bridge's systems and components. 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 development. The Engineer of Record normally seals and signs the final contract plans and specifications.

Role	Team Member	Responsible For
Bridge Lead	Andrew Windmann, PE	Determining appropriate staff to assign task orders. Overall Bridge Design scope delivery.
QA/Peer Review	Andrew Windmann, PE	Ensures established QC policies for Waggoner and its corresponding sub consultants are followed and properly documented. Reviews calculators and plans for conformance with established engineering practices and design codes and verifies agreement with project specifications. Reviews project for biddability and constructability.
Designers/EORS	Joshua Gonya, PE	Bridge Designs, Evaluations, and Load Ratings
	Joshua Olivier, PE	Bridge Designs, Evaluations, and Load Ratings
	Leah Bourg, EI	Bridge Designs
	Brandon Bollich, EI	Bridge Evaluations and Load Ratings
	Robbie Lear, PE, LSI	Bridge Designs, Evaluations, and Load Ratings
Checkers	All members listed above	Provides in-depth check of designer's calculations and plans. This can be independent or follow up to designer, depending on the project type. This person would not have performed the initial design for the particular design being checked.

IV. Project Procedure

A. Development of Project Design Criteria

Design criteria (bridge) must be developed and submitted to BPJJ and LADOTD for review and approval. Though the design criteria may change throughout the project, a current list of the criteria shall be maintained at all times. Any design assumptions made, or design exemptions obtained shall be listed in the design criteria and referenced in the calculations and drawings as appropriate. A design criteria checklist is included in the Appendix.

B. Design Process

During the design process, the designer must follow the design criteria established for the project. A bridge type, size and location (TS&L) study 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 designer has the responsibility to ensure that his calculations or drawings have been checked and signed by a checker.
- All project calculations will be filed as directed by the Project Manager. Except for very small projects, the calculations should be maintained in a 3-ring binder/folder with a Table of Contents and page numbers.
- All calculations will be prepared neatly. These calculations will always be checked by an independent checker and signed by both the designer and the checker. Calculations performed on CAD, such as quantities, will be documented on printouts or drawings (preferably half-size), and checked independently. If such documentation is not readily available from the software, calculations shall be manually documented or performed using other methods.
- The calculations or drawings should be readable without the designer explaining the content. It may be necessary for the designer to explain the philosophy behind the design to the checker.
- All assumptions used in the calculations shall be listed, verified and approved by the Project Manager. Where code dictates a requirement, the code, code date, section number and applicable table will be listed. Where information is obtained from other calculations, disciplines or reference material, the source shall be identified.
- During development of design calculations, the designer should keep in mind that proper sketches and details should be presented as others may use these calculations in developing construction drawings.
- Computer programs (both commercial and in-house) are a great time-saver to the design process. However, it is the designer's responsibility to be familiar with the program, and its design assumptions and internal design routines and methods to the extent that he could duplicate a given result.
- Compute and document input for the computer programs, as you would design calculations. These should be attached to the computer printout when passed to checking. It is not necessary to copy (for checking) lengthy computer printouts.
- The checking of calculations shall be on a copy of the original and shall be retained with the original. After all corrections have been made, the checker shall sign the original. The checker shall sign every page of the calculations to ensure that pages are not added to the end of what he checked. No erasing is permitted after the checker has signed the original calculations.
- All drawings prepared in CAD will be plotted by the technician and checked for correctness and accuracy (by the technician) prior to delivering the drawing to the designer/engineer. It is the CAD technician's responsibility to ensure that the drawing is drawn correctly. The drawing designated as the check print should be in the format of the final deliverable.
- As a general rule, all engineers and technicians should review the plans, specifications and calculations during the development process not only for accuracy, but also that the elements fit together. This is especially true with inter-discipline projects. Checks should also be made on how revisions to one element of a project might affect other portions of the project.
- Each submittal should include a QC/QA certification that the process is being followed and the plan documents and information presented is accurate and meets the requirements of the submittal.

C. Checking Process

The checker may begin the checking process at the completion of the entire design/detail process or may check components of the designer/ detailer's work as it is completed. Likewise, the checker may provide feedback at the completion of the entire checking process or as each component of check is completed.

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. 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 design checker should also ensure that the drawings adequately and accurately present the design information.

During the detail check process, the detail checker must ensure the drawings are in accordance with the design information and CAD standards. All dimensions and quantity calculations must be verified. The following stamp should be applied to every Check Print drawing.

No: _____ Date: _____

CHECK PRINT

Dwg. Checked against calcs. And calc check confirmed

by: _____ Date: _____

Checked: _____ Date: _____

Backchecked: _____ Date: _____

Corrected: _____ Date: _____

Verified: _____ Date: _____

Any discrepancies that arise should be resolved between the designer/detailer and the checker, and the calculations and plan details should be corrected accordingly. If the designer/detailer and the checker are unable to resolve their discrepancies, the issue should be brought to the attention of the supervisor or team leader.

The checker shall be free to follow his own procedure for checking; however, the following must be adhered to regardless of his/her other methods.

- The checking of calculations shall be on a copy of the original and shall be retained with the original. After all corrections have been made, the checker shall sign the original. The checker shall sign every page of the calculations to ensure that pages are not added to the end of what he checked. No erasing is permitted after the checker has signed the original calculations.
- Checker is to show all additions or changes (noted in red) in sufficient detail for a draftman's complete understanding. Avoid verbal instructions. Checker should initial and date each drawing as it is checked.
- If reasons for errors are not clearly apparent, consult draftsman before making change.
- Various checklists (both department and client) exist and should be used where applicable.

- To minimize the number of marked-up drawings being circulated, only the stick file or a clearly designated “Check Print” set should be used for corrections.
- The checker of both the calculations and the drawings should compare the two. They must match.
- After drawings have been checked, notify disciplines concerned, of additional requirements, omissions, or changes.
- After checking is completed the check print should be returned to the original designer for his/her back-check and pick-ups. The original designer shall initial and date each sheet as back-checked.
- Any markups not completely addressed shall be indicated and discussed with Checker before the Back-Check print is returned.
- After Back-Check pickups are made, the drawings should be returned to the checker for final review. The CAD technician shall initial and date each sheet as corrected. After a final review, the checker shall initial and date each sheet as verified.
- All changes or approvals to checked design package shall be color coded as described in the Waggoner drafting standards. Below is a list of colors and intent for use:

YELLOW	indicates checked and complete
RED	indicates addition
GREEN	indicates “remove the item in green”
BLUE	indicates checkers comments are picked-up and complete
BLACK	to be used to write specific instructions or comments
CIRCLED AREA	indicates “not satisfactory” with a pencil comment explaining why, be specific.

The drawings should be locked when the checking process begins and then locked again when complete. This keeps unauthorized changes from occurring and ensures that the entire project team is using accurate and up-to-date information.

After the designer, design checker, detailer, and detail checker are satisfied with the state of the design calculations, drawings, special provisions, and cost estimate as appropriate, the design and detail check shall be considered complete. This shall be no later than the 95% Final Plans stage.

D. Quality Assurance/Review Process

Upon completion of the design and detail check, the designer is responsible for preparing a QA information package. A QA information package checklist is included in the Appendix. This QA package is given to a reviewer; the reviewer is the engineer responsible for ensuring that the QC process was followed and is complete.

During 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. The QA process shall be completed no later than the 98% final plans stage. At this point, the QC/QA certification (included in Appendix) shall be signed by the designer, design checker, detailer, detail checker, and reviewer.

E. Responsibilities of the EOR

- 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.
- Assemble design calculations from all designers, finalize the calculation book, and seal the cover sheet of the calculation book.
- 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 note sheets.
- 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.

F. Responsibilities of the BPPJ Representative/LADOTD Bridge Task Manager:

The LADOTD bridge task manager and/or BPPJ representative will participate in the following:

- Initiate a design kick-off meeting as soon as the project is awarded to discuss project expectations, design criteria, submittal schedule, implementation of QC/QA plan document, as well as to become familiar with the consultant's design team members who are identified as the designers, design checkers, and reviewers.
- Review and approve design criteria and TS&L and ensure the design criteria is updated as the project progresses.
- Review consultant's submittals – BPPJ Representatives and/or **LADOTD Bridge Task Managers shall not perform QC/QA of consultants' work.** However, they will selectively check the plans for constructability, consistency, and clarity.

V. Plan Development

The following procedures help with our quality in the production of drawings and specifications:

- Use department-generated CADD standards and CADD drafting manual, as required.
- Each drawing has an automatic date stamp, along with a correct title block.
- Each drawing should always have a status stamp (Preliminary, For Review, For Approval, etc.) that also identifies the Engineer-of-Record.
- Dimensions and data should be shown only once, to reduce possible discrepancies.
- Cross referencing should be as simple and as clear as possible.
- Coordinate the drawings and specifications with each other.
- Use LADOTD standard specifications and standard plans when appropriate.
- When specifying products, use the LADOTD accepted Qualified Products List when possible.
- If the Qualified Products List does not contain the desired product, document the decision process for approving a product along with

any relevant codes.

- Document for the files: relevant communications, alternatives, and reasoning for picking an alternative.

Appendix

- Design Criteria Checklist
- QA Information Package Checklist
- Consultant Submittal QC/QA Certification
- QC/QA Certification (Final)

Appendix
Design Criteria Checklist

Design criteria for each project shall include, but not limited to, the following sections:

Cover sheet
The following information must be included on the cover sheet:

- BPPJ and LADOTD project numbers
- Project name
- Revision date
- The Supervisor or Team Leader's signature and date

Governing Design and Construction Specifications and Other References
A list of governing design and construction specifications and other references used for the project shall be included in this section. The edition number, interim revisions, and/or publication date must be specified for each reference.

Design Assumptions and Design Exceptions
All design assumptions and design exceptions received must be included in this section along with supporting documents.

General Information
The general information as listed below should be included in this section:

- Bridge information (no. of bridges, bridge clear width, length,#of lanes, lane width, shoulder width, etc.)
- Road information (roadway classifications, design speed, traffic data, etc.)
- Vertical datum
- Vertical and horizontal clearances
- Hydraulic design information (design water elevations, scour depth and scour elevation, etc.)
- Other relevant information

Hydraulic Design Criteria
All hydraulic design criteria (design year, design water elevations, scour depth and scour elevation, etc.) shall be included in this section and the information shall be provided by the Hydraulic Engineer.

Design Factors
The ductility factor, redundancy factor, and operational importance factor shall be listed in this section.

Design Loads
All design loads (dead load, live load, wind load, thermal loads, vessel collision loads, seismic load, wave loads, etc.) used for the project shall be included in this section.

Limit States
All applicable limit states for this project shall be listed in this section.

Bridge Barrier

The design criteria, types, and test levels for bridge barriers shall be listed in this section. Standard plans and special details should be listed if they are utilized.

Guardrail
The design criteria, types, and test levels for guardrails shall be listed in this section. Standard plans and special details should be listed if they are utilized.

Approach Slab
Design criteria for approach slab shall be included in this section. Standard plans and special details should be listed if they are utilized.

Deck and Deck Drainage
All design criteria for deck and deck drainage design shall be included in this section. Standard plans and special details should be listed if they are utilized.

Bearing
All bearing types and design criteria for each bearing type shall be included in this section. Standard plans and special details should be listed if they are utilized.

Joint
All joint types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.

Superstructure
All superstructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.

Substructure
All substructure types and design criteria for each type shall be included in this section. Standard plans and special details should be listed if they are utilized.

Piles and Drilled Shafts
All pile types, sizes, and structural design criteria shall be included in this section. Standard plans and special details should be listed if they are utilized.

Geotechnical Design
All geotechnical design criteria shall be included in this section. Standard plans and special details should be listed if they are utilized.

Mechanical Design
All mechanical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.

Electrical Design
All electrical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.

As-Designed Bridge Rating Criteria
All as-designed bridge rating criteria shall be included in this section.

Software
All software used for design and check shall be included in this section.

Appendix
QA Information Package
Checklist

Project No:
Project Description:

___Calculation Book

___Plans

___Special Provisions

___Cost Estimates

___Other Documents _____

Appendix
Consultant Submittal QA/QC Certification

Project No:
Project Description:

I, the undersigned Supervisor or Team Leader for this project, certify that the information included in this submittal has been prepared in accordance with the QA/QC plan documents and the information presented is accurate and meets the requirements of this submittal.

_____
Submittal Description

_____ _____ _____
Supervisor or Team Leader Name Signature Date

Appendix
QC/QA Certification

Project No.:
Project Description:

We, the undersigned designers, detailers, checkers and reviewers for this project, have reviewed and accepted the calculations, plans, quantities, special provisions, and cost estimate prepared for the project. We certify that the work for which we are responsible has been completed in accordance with the LADOTD Bridge Design Section policy on QC/QA.

Team Members	Name	Responsible Plan Sheets	Responsible Special Provisions	Signature
Designers				
Design Checkers				
Detailers				
Detail Checkers				
Reviewers				
Geotechnical Engineer				
Hydraulic Engineer				

Lazenby & Associates, Inc.
(Subconsultant)

BPPJ Standard Submittal Form

BPPJ Standard Submittal Form

(Revised December 12, 2024)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

Firm should fill in the BPPJ Standard Submittal Form provided without altering the text provided in the form. Firm should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

1. Contract Title as shown in the advertisement	Entity Contract For Congestion Relief Winfield Road Bossier Parish
2. Contract Number(s) if shown in the advertisement	Parish Contract No. 2025-118 Federal AID Project No. H003855
3. State Project Number(s), if shown in the advertisement	State Project No. H.003855
4. Firm Name (as registered with the Louisiana Secretary of State where such registration is required by law)	**Lazenby & Associates, Inc.**
5. Firm License Number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS or American Institute of Certified Planners (AICP or other professional regulatory board, as applicable) if registration is required under Louisiana law)	LAPELS Registration No. 416 Engineering LAPELS Registration No. 68 Land Surveying DUNNS Unique Entity ID: NJWWBHQXB6WS
6. Mailing Address	2000 North 7th Street West Monroe, LA 71291
7. Name, title, phone number, and email address of firm's Contract Point of Contact	Paul D. Fryer, PE, PLS, Senior Vice President pfryer@lazenbyengr.com, 318.387.2710
8. Name, title, phone number, and email address of the official with signing authority for this proposal	Jerry G. Lazenby, P.E., P.L.S., President jlazenby@lazenbyengr.com, 318.387.2710

1. This is to certify that all information contained herein is accurate and true, and that I presently have sufficient staff to perform these services within the designated time frame.

   In accordance with LA R.S. 39:1602.1, 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.

   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.

Signature (shall be the same person as #8):

Date: June 25, 2025

2. 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.

Firm(s)	Firm Percent
See prime's DPPJ Form Question 10	

11. Organiztional Chart

All personnel, including subconsultants are shown in the Prime Firm's Organizational Chart .

12. Minimum Personnel Requirements (MPRs)

Requirement (as stated in advertisement)	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)	License/ certification expiration date
See Prime's BPPJ Standard Submittal Form				

13. Short Resumes

Firm Employed By: Lazenby & Associates, Inc.					
Name	**James S. Ellingburg, P.E.**			Years of Relevant Experience with this Employer	16
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS / 2008 / Civil Engineering		
Active Registration Number/State/Expiration Date			PE 0037236 / Louisiana / 09/30/2026		
Year Registered	2012	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Survey & ROW			

James has over 16 years of experience in developing roadway plans on both LDOTD and local roadway projects. James is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. James has assisted in hydraulic analysis and design, as well as roadway design and preparation of roadway plans, on a variety of roadway projects. He has also assisted with the processing of topographic survey data on multiple projects.

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).
05/08 – 06/15	**State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish -** James initially served as an engineering technician, checking the topographic survey in the field for accuracy. James then served as a project staff engineer, assisting the project engineer with development of existing drainage maps, drainage design maps, utility adjustments, and developing roadway plans. James also assisted with roundabout designs, and sequence of construction in both Preliminary and Final plan development. This project consisted of widening a 3.2-mile portion of LA 616 from a two-lane section to a five-lane urban roadway, and included four multi-lane roundabouts that required extensive geometric design and graphical grade development in order to meet AASHTO and LDOTD standards and requirements for safety. Once the project was let for construction, James provided construction support on an as-needed basis by answering field questions from the contractor or LDOTD.
12/10 – 10/12	**State Project No. H.003854: Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish -** James served as a project staff engineer, working on development of existing drainage maps, design drainage maps, roadway drainage plans, and assisting with roadway and bridge design and plan development for both Preliminary and Final plans. This project consisted of reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2 mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway. There are three bridge sites on the project.
11/11 – 01/12	**State Project No. H.004684: El Camino East/West Corridor, Route LA 6, Natchitoches Parish -** James served as a project staff engineer, developing existing drainage maps for a LDOTD Topographic Survey.
09/17 – Present	**State Project Nos. H.004774 & H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish -** James served as a project staff engineer, assisting with generating topographic survey deliverables, developing existing drainage maps for the topographic survey portion of the project. During the design and plan preparation portion of the project, James has performed drainage design, developed design drainage maps, and assisted with design of five multi-lane roundabouts, developing graphical grades and assisting with geometric design and sequence of construction. This urban project includes five multilane roundabouts and interstate ramp modifications that required extensive geometrics and graphical grades in order to meet AASHTO and LDOTD standards and requirements for safety. The final plans are currently 98% complete.

James Ellingburg resume continued

01/17 - Present	**Ouachita Parish Police Jury Road Program** - James is an integral team member of the Ouachita Parish Police Jury Road Program. His duties consist of evaluating parish roadways and developing pavement preservation construction plans, including processing the topographic surveys, to preserve and extend the life of Ouachita Parish roadways, some of which are designed and constructed under the LDOTD Urban Systems program. James has also served as project engineer during construction, ensuring that the projects are built in accordance with the plans and specifications. Some of the Ouachita Parish Urban System projects that James has provided professional services, including serving as the project engineer during construction, include the following: • State Project No. H.011747 – Edwards Road (Reconstruction) • State Project No. H.013796 – Tanglewood Drive (Reconstruction) • State Project No. H.013802 – Garrett Road (Mill, Patch and Overlay) • State Project No. H.013803 – Richwood Road No. 2 (Mill, Patch and Overlay) • State Project No. H.013804 – Wall Williams Road (Mill, Patch and Overlay and includes a segment of Reconstruction) • State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction)
11/22 – Present	**State Project No. H.007289: Kansas Ln Ext (Old Sterl.-US165) Phase 1, Ouachita Parish** - James is serving as the project engineer during construction of this project, ensuring that the project is built in accordance with the plans and specifications, coordinating testing to ensure compliance with LDOTD Material Sampling Manual, and coordinating construction activities with utility companies and railroad personnel to keep the project on schedule.

13. Short Resumes

Lazenby & Associates, Inc.					
Name	**Paul D. Fryer, PE, PLS**			Years of Relevant Experience with this Employer	38
Title	Senior Vice President			Years of Relevant Experience with Other(s) Employers	2
Degree(s)/Years/Specialization			BS / 1984 / Civil Engineering		
Active Registration Number/State/Expiration Date			PLS 0004806/ Louisiana / 09/30/2025 PE 0023426 / Louisiana / 09/30/2025		
Year Registered	1987 1997	Discipline	Professional Engineer (Civil and Environmental) Professional Land Surveyor		
Contract Role(s)/Brief Description of Responsibilities		Survey & ROW			

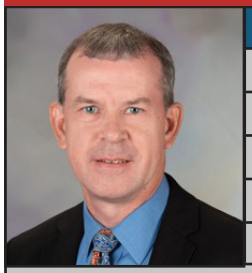
Paul has over 38 years of experience in planning, surveying, designing, inspecting, and construction administration of transportation facilities. Paul is familiar with LDOTD and AASHTO design standards for roadway design and plans development. Paul has performed professional engineering and land surveying services on a variety of projects involving line and grade studies, major investment studies, location and Stage "0" studies as well as topographic surveys, property surveys, development of ROW maps. Paul also has extensive experience in developing preliminary and final roadway plans on a variety of LDOTD projects, and has served in a QA-QC role on many different projects throughout his career.

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).
04/95 – 03/00	**State Project No. 043-01-0017: Dugdemona River and Relief Bridges, Jackson Parish -** Paul prepared preliminary and final roadway plans. This project consisted of the construction of two voided slab span bridges (main bridge and relief structure) and roadway approaches on new alignment.
11/95 – 06/00	**State Project No. 172-01-0011: Bayou DeGlaise Bridge, Morehouse Parish -** Paul prepared preliminary and final roadway and final roadway plans. This project consisted of the construction of a slab span bridge and roadway approaches on new alignment.
01/97 – 10/99	**State Project No. 026-05-0017: LA 15 (Sicily Island – Jct. LA 913), Catahoula Parish -** Paul was responsible for preparation of preliminary and final roadway and bridge plans. This project consisted of widening a 4.5-mile segment of LA 15 to four lanes as part of the LA TIMED Program.
01/04 – 05/07	**State Project No. 700-30-0061: US 167, Lillie to Arkansas State Line, Union Parish -** Paul served as project manager, roadway designer, and surveyor responsible for development of final roadway plans, and right-of-way maps. This project consisted of the conversion of a 7.2-mile section of a rural two-lane arterial route to a four-lane divided arterial route under the LA TIMED Program.
10/07 – 04/16	**State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish -** Paul served as project manager, was responsible for QA-QC of the plans, and was surveyor in charge of right-of-way maps. This project consisted of widening a 3.2-mile portion of LA 616 from a two-lane section to a five-lane urban roadway, and included four multi-lane roundabouts.
07/10 – 05/18	**State Project No. H.003854: Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish -** Paul served as project manager, was responsible for QA/QC of the plans, and was the surveyor in charge of right-of-way maps. This project consisted of reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2-mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway. There are three bridge sites on this project.

Paul Fryer resume continued

02/18 - Present	**State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish -** Paul serves as project manager, is responsible for QA/QC of the roadway plans, and prepared right-of-way maps for the widening of a section of Garrett Road crossing I-20 and connecting to Kansas Lane north of Millhaven Road and the KCS Railroad track to a four-lane arterial route. This project includes the design of five-multi lane roundabouts as well as interstate highway ramp improvements and frontage road realignments and improvements. Final plans for this project are currently 98% complete.
05/08 – 05/12	**State Project No. H.004780.5 – Kansas Lane Connector (Route US 80 to Route US 165) City of Monroe Urban systems, Ouachita Parish -** Paul served as project manager and surveyor responsible for conducting property surveys, and developing right-of-way maps as a sub-consultant to Denmon Engineering Co., Inc. This project involves construction of a four-lane urban arterial route around the University of Louisiana at Monroe connecting US 80 on the south end and US 165 on the northern end.
11/10 – 05/13	**Project Surveyor for Contract No. 4400000685: Retainer Contract for Professional Surveying Services - Statewide** - This retainer contract authorized 23 task orders for topographic surveys, property surveys and ROW maps over a three-year period.
03/08 – 04/11	**Project Surveyor on Contract No. 4400000638: Retainer Contract for Professional Surveying Services – Statewide -** This retainer contract authorized 15 task orders for topographic surveys, property surveys and ROW maps over a three-year period.
11/11 – 01/15	**Project Surveyor on Contract No. 4400001328: Retainer Contract For Professional Surveying Services – Statewide -** This retainer contract authorized 25 task orders for topographic surveys, property surveys and ROW maps over a three-year period.
03/18 – 03/23	**Project Surveyor on Contract No. 4400012667: Retainer Contract For Professional Surveying Services – Statewide** - This retainer contract authorized 25 task orders for topographic surveys, property surveys and ROW maps over a five-year period.
08/22 – present	**US 165 Turn Lanes at Scott Drive, Ouachita Parish** - Paul provided a QA/QC review of the roadway plans and contract documents for this project, which consisted of adding a left and right turn lane on US 165 and traffic signal modifications at Scott Drive in Sterlington, Louisiana. This project was funded by LDOTD through Ouachita Parish School Board.
08/23 – present	State Contract No. 4400025025, District 05: IIJA Off-System Bridge Replacement Program - Mr. Fryer is providing QA-QC reviews of the various plan submittals for ten (10) off-system bridge projects in LDOTD District 05 under this contract. Mr. Fryer is responsible for performing the property surveys and preparing the Right-of-Way Maps for this contract. The projects included in this contract are as follows: • State Project No. H.015337 – Mineral Springs Road Over Clark Creek, Ouachita Parish • State Project No. H.015453 – Hale Road Over Alligator Bayou, West Carroll Parish • State Project No. H.015454 – Keppler Creek Road Over Sugar Creek, Jackson Parish • State Project No. H.015455 – Spring Creek Road Over Wafer Creek, Lincoln Parish • State Project No. H.015456 – Hodge Road Over Cypress Bayou, Madison Parish • State Project No. H.015459 – Lapine Road Over Rogers Creek, Ouachita Parish • State Project No. H.015460 – Little Road Over Creek, Rapides Parish • State Project No. H.015461 – Fire Tower Road Over Rock Creek, Union Parish • State Project No. H.015462 – Pilgrims Rest Church Road Over Steep Bank Creek, Union Parish • State Project No. H.015463 – White Oak Landing Over Edmonds Creek, Union Parish Most of these projects have reached the final preliminary plan stage and are awaiting environmental clearance.

13. Short Resumes



Lazenby & Associates, Inc.					
Name	**Randy C. Hammons, PE**			Years of Relevant Experience with this Employer	23
Title	Senior Vice-President			Years of Relevant Experience with Other(s) Employers	8
Degree(s)/Years/Specialization			BS / 1993 / Civil Engineering		
Active Registration Number/State/Expiration Date			PE 0029504 / Louisiana / 09/30/2025		
Year Registered	2001	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Topographic Survey			

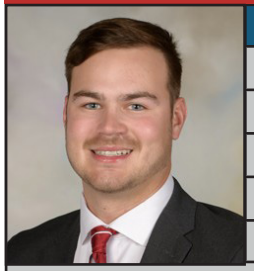
Randy has more than 25 years of experience in planning and designing highways and bridges on transportation projects in Louisiana, Arkansas, Mississippi, and Tennessee. Randy has approximately 16 years of experience supervising and processing topographic survey data, including establishing survey control, calculating existing alignments, creating digital terrain models (DTM's), and developing existing drainage maps for LDOTD projects.

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).
01/17 – 01/20	Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400009384: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract contained six task orders to perform topographic surveys for various projects at a cost of $989,478 over a 3-year time frame. Some of the task orders for Topographic Surveys were as follows: • **State Project No. H.003370.5 – I-220/I-20 Interchange and BAFB Access, Route I-220 & I-20 in Bossier Parish (04/2018 – 10/2018).** Topographic survey of the proposed I-220/I-20 Interchange and BAFB Access roadway in Bossier Parish using GPS receivers, robotic total stations, SX-10 terrestrial scanner, and mobile lidar. • **State Project No. H.007300.5 & H004774.5 – Kansas Lane – Garrett Road Connector and I-20 Interchange in Ouachita Parish (3/2018 – 9/2018)** Topographic Survey of the proposed Kansas Lane - Garrett Road Connector and I-20 Interchange using GPS receivers, robotic total stations and a SX-10 terrestrial scanner. • **State Project No. H.012036.5 – US 80: Boeuf River Bridge in Richland Parish (03/2019 – 6/2019).** Topographic survey for a bridge replacement project at the US 80 crossing of the Boeuf River using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.
01/20 – Present	Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400017710: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract has contained one task order to perform topographic surveys at a cost of $393,871 over a 5-year time frame. The task order for Topographic Surveys is as follows: **State Project No. H.015052.5 – I-20 Widening & Improvements (Vancil to LA 34), Route I-20 in Ouachita Parish (05/2022-01/2023).** Topographic survey of a proposed 3.94 mi interstate widening from Vancil Road to LA 34 along I-20 in West Monroe using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar was used to locate 20,815 LF of I-20 mainline.

Randy C. Hammons resume continued

10/19 – 03/23	Project Engineer processing topographic survey field data and developing topographic survey maps and images for State Contract No. 4400015236: Retainer Contract for Professional Surveying Services – Statewide. This retainer contract has contained fifteen task orders to perform topographic surveys for various projects at a cost of $1,825,144 over a 5-year time frame. Some of the task orders for Topographic Surveys were as follows: **State Project No. H.012030 – US 371: KCS RR Overpass HBI, Route LA 159 and US 371 in Webster Parish (10/2020-04/2021).** Topographic survey of two bridge replacements over KCS RR using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. **State Project No. H.012032.5 – LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021)**. Topographic survey of two bridge replacement sites using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. **State Project No. H.013832.5 – LA 6: Grand Ecore Bridge Deck Repair, Route LA 6 in Natchitoches Parish (04/2021-06/2021)**. Topographic survey of the existing deck, barrier rails & river pier top of cap elevations for the Grand Ecore Bridge across the Red River using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate complete bridge deck & barrier rails. **State Project No. H.014554.5 – LA 3025: Coulee Mine Scour Repair, Route LA 3025 in Lafayette Parish (04/2021-07/2021).** Topographic survey of a bridge located near the intersection of LA 3025 & West Bayou Parkway using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridge, roadway and intersection. **State Project No. H.012541.5 – LA 594: Overpass I-20, Route LA 594 in Ouachita Parish (01/2022-06/2022).** Topographic survey of a bridge replacement near the intersection of I-20 and LA 594 (Texas Ave) using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar used to locate 4,200 LF of I-20 mainline and two bridge decks over interstate. **State Project No. H.014646.5 – I-20: US 165 – E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022).** Topographic survey of a proposed 2.49 mi interstate widening near the intersection of Garrett Road and I-20 using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar was used to locate 7,130 LF of I-20 mainline.
11/24 – Present	**State Project No. H.014054: I-69 Frtg. Rd. Conn (Ellerbe Rd to LA 1), Caddo Parish** – Mr. Hammons is the Project Engineer responsible for processing the topographic survey field data for this project.

13. Short Resumes



Lazenby & Associates, Inc.					
Name	**Blaine T. Holloway, EI**			Years of Relevant Experience with this Employer	2
Title	Engineer Intern			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			B.S. / 2023 / Civil Engineering		
Active Registration Number/State/Expiration Date			E.I. 0035474 / Louisiana / 09/30/2025		
Year Registered	2023	Discipline	Civil Engineering (E.I.)		
Contract Role(s)/Brief Description of Responsibilities			Topographic Survey, Exist. Drainage Maps		

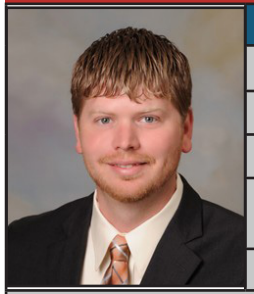
Blaine has two years of experience in performing drainage design, hydraulic analysis, roadway design, and preparation of roadway and bridge plans on a variety of LDOTD and local roadway projects. Blaine is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Blaine also assists in processing topographic survey, creating survey centerline alignments (ALG's) using horizontal regression analysis, and developing digital terrain models (DTM's).

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).
06/22 – 09/22	**State Project No. H.015052: I-20: I-20 Widening/Overlay (Vancil Rd to LA 34) Ouachita Parish** - This project consisted of performing a complete topographic survey along I-20 from the Well Road Interchange to the LA 34 (Stella Mill St) Interchange in Ouachita Parish. It also included portions of Well Road, Downing Pines Road, Thomas Road, and LA 34 (Stella Mill St) for a total cumulative length of 25,625 ft (4.85 miles). Data was collected using GPS receivers, robotic total stations, SX-10 terrestrial scanners, and a terrestrial mobile LIDAR scanner. Mr. Holloway assisted in post processing the survey data and creating the existing drainage map.
06/23 – 11/23	City of Monroe, City Street Improvements - Mr. Holloway has assisted with a variety of pavement preservation designs for the City of Monroe. His duties consist of developing pavement preservation roadway plans, including hydraulic design, quantity calculations, and construction cost estimates. Some of the City of Monroe projects on which Mr. Holloway has assisted include the following: • Task Order No. 21-17-001 – Parkview Drive Improvements (Mill, Patch and Overlay) • Task Order No. 21-17-003 – North 6th Street Improvements (Mill, Patch and Overlay)
01/24 – 04/24	**State Contract No. 4400017710, Task Order No. 2, State Project No. H.015640.5, LA 150 & LA 818: Roundabout Topographic Survey** - Blaine assisted in post-processing topographic survey data, which included developing a digital terrain model (DTM) of the existing site, creating a surveyed centerline alignment via horizontal regression, and conducting a LA One Call and coordinating with utility companies to get their existing facilities incorporated into the topographic survey. Blaine also assisted in compiling the LDOTD submittal requirements for this survey.
06/22 – Present	**State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish** - Blaine has assisted with quantity calculations during final plan development, as well as assisting with preparation of a construction cost estimate. This urban project includes five multi lane roundabouts and interstate ramp modifications. The final plans are currently 98% complete.

Blaine T. Holloway resume continued

10/23 – Present	**State Contract No. 4400025025, District 05: IIJA Off-System Bridge Replacement Program.** Blaine assisted in the development of preliminary roadway and bridge plans and hydraulic analyses/reports for ten (10) state projects under this contract. Some of Blaine's duties included conducting hydraulic analyses utilizing HEC-RAS 1D modeling, preparing hydraulic reports in accordance with LDOTD's Hydraulics Manual, assisting in the development of roadway and bridge plans, calculating of quantities, and developing construction cost estimates. Blaine also assisted in the development of topographic surveys for several of the projects under this contract. His duties for this portion of the project included post processing of survey data, development of digital terrain models (DTM) of the existing sites, creating surveyed centerline alignments via horizontal regression, and utility coordination. The State Projects on which Blaine has assisted include the following: • State Project No. H.015337 – Mineral Springs Road Over Clark Creek • State Project No. H.015453 – Hale Road Over Alligator Bayou • State Project No. H.015454 – Keppler Creek Road Over Sugar Creek • State Project No. H.015455 – Spring Creek Road Over Wafer Creek • State Project No. H.015456 – Hodge Road Over Cypress Bayou • State Project No. H.015459 – Lapine Road Over Rogers Creek • State Project No. H.015460 – Little Road Over Creek • State Project No. H.015461 – Fire Tower Road Over Rock Creek • State Project No. H.015462 – Pilgrims Rest Church Road Over Steep Bank Creek • State Project No. H.015463 – White Oak Landing Over Edmonds Creek These projects are nearing the final plan stage, where Blaine will continue to assist in developing the preparation of final roadway and bridge plans.
10/24 – Present	**State Project No. H.0098735: LA 64: Roundabout @ LA 1019 -** Blaine is assisting with the development of preliminary roadway plans for a proposed roundabout on LA 64 in Livingston Parish. This project began as an in-house project at DOTD, where it reached the 30% preliminary plan stage, but was ultimately issued as a task order to DOTD Contract 4400026026 (IDIQ Contract for Roadway Design Safety). Blaine provided QA/QC of the alignment information shown on the layout and reference point sheets. He is currently assisting with the development of a 3D model of the project and is assisting with subsurface drainage design. Preliminary plans are approximately 45% complete.
7/24 - Present	**State Project No. H.012047: LA 8: Big Creek Bridge** - This project consists of the replacement of a 760' precast slab span bridge in Grant Parish. Mr. Holloway is assisting in the development of roadway plans, including developing a 3D model of the proposed roadway approaches. His duties also included performing a hydraulic bridge analysis utilizing HEC-RAS 1D modeling and preparing a hydraulic report in accordance with the LDOTD Hydraulics Manual. Mr. Holloway also assisted in the development of a supplemental topographic survey for this project which included combining additional survey data with the existing survey provided by LDOTD District 08, preparing existing drainage maps and conducting a utility update. The preliminary plans are currently 60% complete. This project is a portion of Contract No. 4400021877 which consists of the replacement of 11 bridges across District 08. Mr. Holloway will continue to assist in the roadway/bridge plan preparation, hydraulic analyses/reporting, and topographic survey for these sites.

13. Short Resumes



Lazenby & Associates, Inc.					
Name	**Ronald J. Riggin, II, PE, PLS**			Years of Relevant Experience with this Employer	12
Title	Project Surveyor			Years of Relevant Experience with Other(s) Employers	6
Degree(s)/Years/Specialization			B.S. / 2006 / Civil Engineering		
Active Registration Number/State/Expiration Date			P.L.S. 0005119/ Louisiana / 03/31/2027 P.E. 0036016 / Louisiana / 03/31/2027		
Year Registered	2014, 2011	Discipline	Professional Land Surveyor, Professional Engineer (Civil)		
Contract Role(s)/Brief Description of Responsibilities		Boundary Survey			

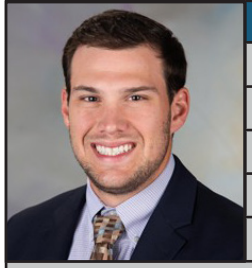
Ronald is familiar with the requirements of the LDOTD Location and Survey Section for conducting topographic surveys, property surveys and hydrographic surveys. Ronald is responsible for quality control of all survey data obtained by survey crews in conducting topographic surveys, property surveys, and hydrographic surveys. Ronald has over five years of experience in conducting and performing topographic surveys, property surveys, and developing right-of-way maps.

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).
07/14 – 06/16	**Retainer Contract No. 4400003471 – Retainer Contract for Professional Surveying Services – Statewide** - Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 14 Task Orders for an accumulated value of $436,473.00 for LDOTD State Projects at various locations in northern Louisiana.
10/14 – 06/17	**Retainer Contract No. 4400004541 – Retainer Contract for Professional Surveying Services – Statewide** - Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 8 Task Orders for an accumulated value of $811,513.00 for LDOTD State Projects at various locations in Louisiana.
04/13 – 06/16	**Project Surveyor for Contract No. 4400002862, S.P. # H.008768 – Hydrographic Survey Monitoring of Existing Bridges – Statewide (North Region)** - Performed hydrographic surveys on 14 Task Orders for monitoring scour at major bridge sites in north Louisiana. Duties included supervision of survey crews, analysis of survey data, and the development of required hydrographic survey reports at the various bridge locations.
04/14 – Present	**Professional Surveyor of Record** for developing topographic surveys and Property Surveys for private clients on residential developments and commercial developments in Ouachita Parish and northern Louisiana. Professional Engineer of Record for the overall design of residential and commercial developments.
03/15 – 08/17	**State Project No. H.011742: Ole Highway 15 Improvements, Ouachita Parish** - Mr. Riggin performed a topographic survey of a 2.2-mile section of Ole Hwy 15 from US 80 to LA 616 and then was the project engineer responsible for roadway design. This project consisted of pavement reconstruction under the DOTD Urban Systems program. (Note that we typically perform a full topo survey, within existing right-of-way, on pavement preservation projects on Ouachita Parish roadways. This is not typically done for LDOTD on-system pavement preservation projects.)
05/16 – 02/18	**Project Surveyor on the Steep Bayou Sewer Main project of the West Ouachita Sewerage District No. 5 -** Mr. Riggin performed a topographic survey of the alignment for a sewer main trunk line from I-20 to New Natchitoches Road along Steep Bayou in Ouachita Parish. He also conducted a boundary survey of the right-of-way parcels along this route and developed the necessary ROW maps and legal descriptions.

Ronald J. Riggin, II resume continued

09/18 – 01/23	**Retainer Contract No. 4400012668 – Retainer Contract for Professional Surveying Services – Statewide (North Region)** - Performed hydrographic surveys on major bridge structures in northern Louisiana for monitoring channel scour. Duties included supervision of field crews, analysis of survey data and development of required hydrographic survey reports at the various bridge locations for submission to the LDOTD.
12/18 – 02/19	**State Project No. H.013802: Garrett Road, Ouachita Parish** - Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 0.4-mile segment of roadway from LA 15 to Austin Street under the DOTD Urban Systems program.
01/19 – 04/19	**State Project No. H.013804: Wall Williams Road, Ouachita Parish** - Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of segments of mill, patch, and overlay and segments of reconstruction of a 1.6-mile segment of roadway from Good Hope Road to LA 143 under the DOTD Urban Systems program.
04/19 – 07/19	**State Project No. H.014348: Lee Avenue, City of Monroe, Ouachita Parish** - Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 1.2-mile segment of roadway from Jackson Street to Standifer Avenue under the DOTD Urban Systems program.
07/19 – 09/19	**State Project No. H.013796: Tanglewood Drive, Ouachita Parish** - Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of roadway reconstruction a 0.3-mile segment of roadway from LA 15 to Dellwood Drive under the DOTD Urban Systems program.
02/20 – 04/20	**State Project No. H.014347: South Grand Street, City of Monroe, Ouachita Parish** - Mr. Riggin was responsible for supervision and scheduling of field survey crews, analysis of survey data, and development of field roll for use in project design. This project consisted of a mill, patch, and overlay of a 1.8-mile segment of roadway from Orange Street to Standifer Avenue under the DOTD Urban Systems program.
11/20 – Present	**Retainer Contract No. 4400019714 – Retainer Contract for Professional Surveying Services – Statewide (North Region)** - Performing hydrographic surveys on major bridge structures in northern Louisiana for monitoring channel scour. Duties include supervision of field crews, analysis of survey data and development of required hydrographic survey reports at the various bridge locations for submission to the LDOTD.
01/17 – 01/20	**Retainer Contract No. 4400009384 – Retainer Contract for Professional Surveying Services – Statewide -** Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 14 Task Orders for an accumulated value of $989,478 for LDOTD State Projects at various locations in Louisiana.
10/19 – 02/24	**Retainer Contract No. 4400015326 – Retainer Contract for Professional Surveying Services – Statewide** - Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys at various locations in Louisiana. A total of 17 Task Orders were issued for an accumulated value of $1,858,496.
01/20 – Present	**Retainer Contract No. 4400017710 – Retainer Contract for Professional Surveying Services – Statewide** - Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys at various locations in Louisiana. To date, 2 Task Orders have been completed for a value of $492,689.
01/25 – Present	**State Project No. H.014232: Ruffin Drive Bridge over Drain to Youngs Bayou, Ouachita Parish** - Project Surveyor responsible for coordination and supervision of survey field crews performing property surveys and preparing right-of-way maps.

13. Short Resumes



Lazenby & Associates, Inc.					
Name	**Noah J. Sampognaro, PE**			Years of Relevant Experience with this Employer	4
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS / 2020 / Civil Engineering		
Active Registration Number/State/Expiration Date			PE 0049838 / Louisiana / 09/30/2025		
Year Registered	2025	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Topographic Survey, Exist. Drainage Maps			

Noah has four years of experience in performing drainage design, hydraulic analysis, roadway design, and preparation of roadway plans on a variety of LDOTD and local roadway projects. Noah passed his P.E. Civil Transportation exam in October 2022 and is currently enrolled in the University of Wyoming Cadastral Surveying Certificate Program. Noah is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Noah also assists in processing topographic survey and mobile LIDAR data, creating survey centerline alignments (ALG's) using horizontal regression analysis, developing digital terrain models (DTM's), and producing existing drainage maps for LDOTD topographic surveys.

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).
08/21 – 11/22	**North Frontage Road – Phase 2, Ouachita Parish** - Noah assisted in the development of roadway plans, including processing topographic survey data, performing drainage design calculations and developing existing and design drainage maps. Noah also assisted with quantity calculations and preparation of a construction cost estimate. This project, which was prepared for the City of Monroe I-20 Economic Development District, consists of a 0.6-mile frontage road on new alignment north of Interstate 20, east of Garrett Road, in Monroe, Louisiana. Noah also assisted in construction support activities, including, but not limited to, site visits to address contractor RFI's, assisting in processing pay estimates and change orders, and assisting with the final inspection and preparation of a punch list.
01/21 – 06/22	**State Contract No. 4400015236:** Retainer Contract for Professional Surveying Services – Statewide - This retainer contract consisted of fifteen task orders to perform topographic surveys for various projects across Louisiana. Noah assisted in post-processing topographic survey data which was collected with the use of GPS receivers, robotic total stations, and SX-10 terrestrial scanners, as well as using TOPO Dot software to extract data collected with a terrestrial mobile lidar scanner. His duties also included creating survey centerline alignments (ALG's) and associated reports using horizontal regression analysis, developing existing digital terrain models (DTMs), and producing existing drainage maps. Some of the task orders on which Noah has assisted include the following: State Project No. H.011706.5 – BNSF Several RR Xings (Baldwin) in St. Mary Parish (01/2021-08/2021) State Project No. H.012032.5 – LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021) State Project No. H.008220.5 – LA 406 @ F.E. Hebert Roundabout, Route LA 406 in Plaquemines Parish (03/2021-07/2021) State Project No. H.012541.5 – LA 594: Overpass I-20, Route 594 in Ouachita Parish (01/2022-06/2022) State Project No. H.014646.5 – I-20: US 165 – E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022)
01/21 – Present	**State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish** - Mr. Sampognaro has assisted with quantity calculations during final plan development, as well as assisting with preparation of a construction cost estimate. This urban project includes five multilane roundabouts and interstate ramp modifications. The final plans are currently 98% complete.

Noah J. Sampognaro, resume continued

01/22 – 1/23	**State Project No. H.015052: I-20: I-20 Widening/Overlay (Vancil Rd to LA 34), Ouachita Parish** - This project consisted of performing a complete topographic survey along I-20 from the Well Road Interchange to the LA 34 (Stella Mill St) Interchange in Ouachita Parish. It also included portions of Well Road, Downing Pines Road, Thomas Road, and LA 34 (Stella Mill St) for a total cumulative length of 25,625 ft (4.85 miles). Data was collected using GPS receivers, robotic total stations, SX-10 terrestrial scanners, and a terrestrial mobile LIDAR scanner. Mr. Sampognaro assisted in post processing the survey data, extracting mobile LIDAR data using TOPO Dot software, and creating the existing drainage map. He also assisted in quality control measures by comparing field data collected by the survey crew to LDOTD as-built drawings.
01/21 – Present	**Ouachita Parish Police Jury Road Program** - Mr. Sampognaro has assisted with the Ouachita Parish Police Jury Road Program. His duties consist of developing pavement preservation roadway plans, including processing topographic survey data, design of cross drain structures, superelevation correction calculations, and quantity calculations, to preserve and extend the life of Ouachita Parish roadways, some of which are constructed under the DOTD Urban Systems program. Some of the Ouachita Parish Urban Systems projects on which Mr. Sampognaro has assisted include the following: State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction) State Project No. H.014397 – Rowland Road (Mill, Patch and Overlay) State Project No. H.014398 – Caples Road (Mill, Patch and Overlay)
06/21 - Present	**City of Monroe, City Street Improvements** - Mr. Sampognaro has assisted with City of Monroe roadways designed under the LDOTD Urban Systems program. His duties consist of developing pavement preservation roadway plans, including processing topographic survey data, hydraulic design, quantity calculations, and construction cost estimates. Some of the City of Monroe Urban Systems projects on which Mr. Sampognaro has assisted include the following: State Project No. H.014347 – South Grand Street (Mill, Patch and Overlay) State Project No. H.014348 – Lee Avenue (Mill, Patch and Overlay) Mr. Sampognaro is currently assisting with construction support activities by field marking and verifying required areas of pavement patching.
08/22 – 12/24	**US 165 Turn Lanes at Scott Drive, Ouachita Parish** - Mr. Sampognaro assisted in the development of roadway plans and processing the topographic survey data, including creating the existing digital terrain model (DTM), existing drainage map, drainage design, and quantity calculations. This project, which was prepared for the Ouachita Parish School board, consisted of adding a left and right turn lane on US 165 and traffic signal modifications at Scott Drive in Sterlington Louisiana.

14. Relevant Projects

Firm Name	**Lazenby & Associates, Inc.**			
Project Name	Arkansas Road (West Monroe) (Caldwell Road) Route LA 616	Past Performance Evaluation Category(ies)*	Survey, ROW Maps	
		Firm Responsibility	Prime	
Project Number	700-37-0130	Owner's Name	Louisiana Department of Transportation and Development	
Project Location	Ouachita Parish	Owners Project Manager	Fred Borne, PE	
Owners Address, Phone, Email	P.O. Box 94245, Baton Rouge, LA 70804-9245 (Retired)			
Services Commenced by this Firm (mm/yy)	12/07	Total Consultant Contract Cost ($1,000's)	$1,611.06	
Services Completed by this Firm (mm/yy)	06/15	Cost of Consultant Services Provided by this Firm ($1,000's)	$1,611.06	

Project Description:

Lazenby & Associates, Inc. was the Prime Consultant to the LDOTD in providing professional engineering and land surveying services for the design of the Arkansas Road project. The project consists of widening a 3.2 mile section of LA 616 from two lanes to five lanes with roundabouts at four major intersections.

Professional engineering and land surveying services consists of Topographic Surveys, Property Surveys, Preliminary Plans, Final Plans and Right-of-Way Maps.

The professional services for the design of this project were performed within the State of Louisiana using Louisiana residents.

This project is complete.

Team Members Involved:

Paul D. Fryer, PE, PLS – He was responsible for project coordination, development of Right-of-way maps and supervision of preliminary and final plans.

James S. Ellingburg, PE – He was responsible for hydraulic analysis and development of drainage plans.

Randy C. Hammons, PE – He assisted with topographic survey and development of preliminary and final plans.

14. Relevant Projects

Firm Name	**Lazenby & Associates, Inc.**			
Project Name	Bossier North-South Corridor	Past Performance Evaluation Category(ies)*		Road, Survey
		Firm Responsibility	Prime	
Project Number	S.P.N. H.003854	Owner's Name	Bossier Parish Police Jury – Northwest Louisiana Council of Governments.	
Project Location	Bossier Parish	Owners Project Manager	Eric Hudson, PE, PLS	
Owners Address, Phone, Email	P.O. Box 70, Benton, LA 71006, 318.965.2329, ehudson@bossierparishla.gov			
Services Commenced by this Firm (mm/yy)	07/10	Total Consultant Contract Cost ($1,000's)	$1,624.9	
Services Completed by this Firm (mm/yy)	11/17	Cost of Consultant Services Provided by this Firm ($1,000's)	$1,339.1	

Project Description:

Lazenby & Associates, Inc. was the prime consultant on this project, which involved reconstruction, widening, and realignment of a 3.7-mile segment of Swan Lake Road north of I-220, and construction of a new 4.2-mile roadway on new alignment from Swan Lake Road north to Crouch Road. The southern portion of the project is a three-lane section with subsurface drainage, while the remainder of the project is a two-lane roadway with open ditch drainage. There are three bridge sites included in the project. An existing timber bridge was replaced with a 5 – 10' x 10' RCB, and an existing slab span bridge was widened. The project was ultimately split into two jobs. The north section was recently let and includes a new quad beam girder bridge.

Lazenby & Associates, Inc., performed topographic surveys and property surveys, and prepared preliminary plans, final plans, and right-of-way maps. Major design components were road design, bridge design, hydraulic analysis and design (including hydraulic modeling of bridges), geometric design, and sequence of construction. Lazenby also assisted in the environmental clearance process, preparing exhibits for and assisting with the public meetings and preparing permit drawings.

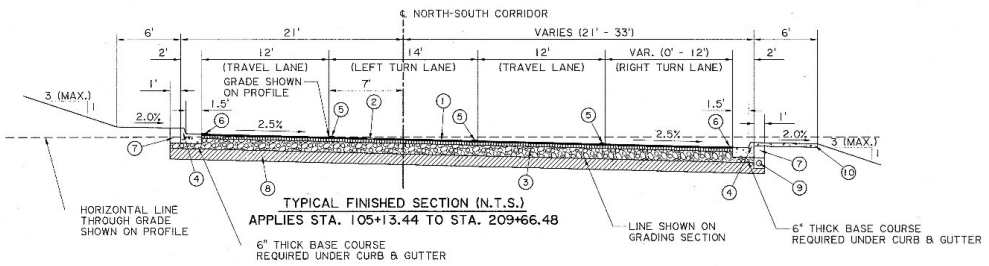
Team Members Involved:

Paul D. Fryer, PE, PLS

Ronald J. Riggin, PE, PLS

James S. Ellingburg, PE

Randy C. Hammons, PE



14. Relevant Projects

Firm Name	**Lazenby & Associates, Inc.**		
Project Name	Retainer Contract for Professional Surveying Services	Past Performance Evaluation Category(ies)*	Survey
		Firm Responsibility	Prime
Project Number	4400000685	Owner's Name	Louisiana Department of Transportation and Development
Project Location	District 04 & 05	Owners Project Manager	Eric Lanier, PLS
Owners Address, Phone, Email	P.O. Box 94245, Baton Rouge, LA 70804-9245 (Retired)		
Services Commenced by this Firm (mm/yy)	06/10	Total Consultant Contract Cost ($1,000's)	$875
Services Completed by this Firm (mm/yy)	06/13	Cost of Consultant Services Provided by this Firm ($1,000's)	$875

Project Description:

This project consists of 23 Task Orders to date to perform topographic surveys, property surveys and develop right-of-way maps for various LDOTD projects in northern Louisiana. Professional surveying services were performed on this contract from June, 2010 through June, 2013.

All work on this project was performed in Louisiana from our West Monroe, Louisiana office by Louisiana residents.

The following major task orders were performed on this project:

Task Order No.	Description	Location	Amount	Time Frame & Personnel
701-65-1535	LA 124 Realignment at Ouachita River, Property Surveys & ROW Maps	Catahoula Parish	$32,733	Sept. 2010 – June 2011 Kevin E. Crosby, PLS Paul D. Fryer, PLS
H.001129.5	LA 8 Realignment at Ouachita River: Property Surveys & ROW Maps	Catahoula Parish	$25,623	Sept., 2011 – Mar., 2012 Paul D. Freyer, PLS
H.003969	Existing three-lane to Contraband Bayou: Topographic Surveys	Calcasieu Parish	$11,960	Jan., 2011 – Jan., 2012 Paul D. Freyer, PLS

Team Members Involved:

Jerry G. Lazenby, PE, PLS - Officer-in-Charge of the overall project.

Randy C. Hammons, PE - Assisted in performing topographic surveys and developing electronic deliverables to submit to the LDOTD.

Paul D. Fryer, PE, PLS – Responsible for the development and delivery of Right-of-Way Maps to the LDOTD.

14. Relevant Projects

Firm Name	**Lazenby & Associates, Inc.**		
Project Name	Retainer Contract for Professional Surveying Services (District 04 & 05)	Past Performance Evaluation Category(ies)*	Survey
		Firm Responsibility	Prime
Project Number	4400001328	Owner's Name	Louisiana Department of Transportation and Development
Project Location	Statewide	Owners Project Manager	Eric Lanier, PLS
Owners Address, Phone, Email	P.O. Box 94245, Baton Rouge, LA 70804-9245 (Retired)		
Services Commenced by this Firm (mm/yy)	11/11	Total Consultant Contract Cost ($1,000's)	$868
Services Completed by this Firm (mm/yy)	11/14	Cost of Consultant Services Provided by this Firm ($1,000's)	$868

Project Description:

This project consisted of 22 Task Orders to perform topographic survey, property surveys, develop right-of-way maps and title services for various LDOTD projects in northern Louisiana totaling $868,399.00 over a three year period. Professional surveying services were performed on this contract from November, 2011 through November, 2014. The following is a summary of the major task orders performed under this surveying retainer contract:

Task Order No.	Description	Location	Amount	Time Frame & Personnel
H.000174.5	Bayou Lafourche Bridge, Property Survey, Right-of-Way Maps & Title Services	Richland & Ouachita Parishes	Lump Sum, $15,223	Sept. 17, 2012 – Nov. 5, 2012 Paul D. Fryer, PLS
H.001798.5	Parmers Creek Bridge, Topographic Survey	Webster Parish	Billable Rates, $74,573	April 30, 2012 – July 20, 2012 Kevin E. Crosby, PE, PLS Randy C. Hammons, PE
H.002059.5	Widen LA 384 & LA 385 at McNeese St Topographic Survey	Calcasieu Parish	Billable Rates, $103,015	June 4, 2012 – May 2, 2014 Kevin E. Crosby, PE, PLS Randy C. Hammons, PE
H.008225.5	LA 3033 Drain Bridge Right-of-way Map Revisions	Ouachita Parish	Lump Sum $846	July 25, 2012 – August 4, 2012 Paul D. Fryer, PE, PLS
H000780.5	Intersection Improvements US 84 & US 425 Property Survey, Right-of-Way Maps & Title Services	Concordia Parish	Lump Sum $10,579	October 8, 2012 –Dec. 12, 2012 Paul D. Fryer, PE, PLS

Team Members Involved:

Jerry G. Lazenby, PE, PLS - Officer-in-Charge of the overall project.

Randy C. Hammons, PE - Assisted in performing topographic surveys using GPS equipment and methods.

Paul D. Fryer, PE, PLS – Responsible for CADD technician supervision and in the development of right-of-way maps.

14. Relevant Projects

Firm Name	**Lazenby & Associates, Inc.**			
Project Name	Retainer Contract for Professional Surveying Services	Past Performance Evaluation Category(ies)*	Survey	
		Firm Responsibility	Prime	
Project Number	4400003471	Owner's Name	Louisiana Department of Transportation and Development	
Project Location	Statewide	Owners Project Manager	Joseph Arretteig, PE	
Owners Address, Phone, Email	P.O. Box 94245, Baton Rouge, LA 70804-9245, 225.379.1105 (Retired)			
Services Commenced by this Firm (mm/yy)	07/13	Total Consultant Contract Cost ($1,000's)	$ 1,000	
Services Completed by this Firm (mm/yy)	06/16	Cost of Consultant Services Provided by this Firm ($1,000's)	$ 1,000	

Project Description:

Lazenby & Associates, Inc. was the Prime Consultant on this project. This project consisted of 25 Task Orders to perform Topographic Surveys, Property Surveys and Right-of-Way Maps for various LaDOTD Projects in North Louisiana.

All work performed on this project was performed out of our West Monroe office using Louisiana residents.

This contract included 25 Task Orders.

Team Members Involved:

Paul D. Fryer, PE, PLS – Responsible for developing and delivering Right-of-Way Maps for various roadway and bridge projects to LaDOTD.

Ronald J. Riggin, II, PE, PLS - Project Manger in charge of Topographic surveys, property surveys and related field operations.

14. Relevant Projects

Firm Name	**Lazenby & Associates, Inc.**		
Project Name	Retainer Contract for Professional Surveying Services	Past Performance Evaluation Category(ies)*	Survey
		Firm Responsibility	Prime
Project Number	4400012667	Owner's Name	Louisiana Department of Transportation and Development
Project Location	Statewide	Owners Project Manager	Carl Hultgren, PLS, CH
Owners Address, Phone, Email	P.O. Box 94245, Baton Rouge, LA 70804-9245, 225.379.1723, Carl.Hultgren@la.gov		
Services Commenced by this Firm (mm/yy)	07/18	Total Consultant Contract Cost ($1,000's)	$367.6
Services Completed by this Firm (mm/yy)	03/23	Cost of Consultant Services Provided by this Firm ($1,000's)	$367.6

Project Description:

Lazenby & Associates, Inc. was the Prime Consultant on this project. This project consisted of 25 Task Orders to perform Topographic Surveys, Property Surveys and Right-of-Way Maps for various LaDOTD Projects in North Louisiana.

All work performed on this project was performed out of our West Monroe office using Louisiana residents.

This contract included 25 Task Orders.

Task Order No.	Description	Location	Amount	Time Frame & Personnel
H.012798.5	LA 594: Roundabout at Rowland Road property surveys & ROW maps	Ouachita Parish	$14,851	Aug., 2018 – June, 2019 Paul D. Fryer, PLS Ronald J. Riggin, PLS
H.007300.5/ H.004774.5	Kansas Lane – Garrett Road, Topographic Survey, Property Surveys & ROW Maps	Ouachita Parish	$99,292	Jan., 2019 – March, 2023 Paul D. Fryer, PLS Ronald J. Riggin, PLS
H.000169.6	Missouri Pacific Railroad Bridge @ Sicard Road Property Surveys & ROW Maps	Ouachita Parish	$4,230	Sept., 2019 – Sept., 2019 Paul D. Fryer, PLS Ronald J. Riggin, PLS

Team Members Involved:

Paul D. Fryer, PE, PLS – Responsible for developing and delivering Right-of-Way Maps for various roadway and bridge projects to LaDOTD.

Ronald J. Riggin, II, PE, PLS - Project Manger in charge of Topographic surveys, property surveys and related field operations.

15. Additional Information

Topographic Survey

1.0 Understanding of Project Scope:

The project involves conducting topographic surveys.
In the course of performing the necessary work, Lazenby & Associates, Inc., will utilize all standard design guidelines typical for conducting topographic surveys for the Louisiana Department of Transportation and Development, including, but not limited to, the following:

- LADOTD Location and Survey Manual (October 2023)
- Manual on Uniform Traffic Control Devices for Streets and Highways
- LADOTD Addendum to Retainer Contract for Surveying Services Description of Survey Data File Deliverables (Dated May 12, 2010)
- LADOTD Location and Survey Section Survey Feature Code Guide Book
- LADOTD Software and Deliverable Standards for Electronic Plans

2.0 - Project Approach and Methodology:

Lazenby & Associates, Inc., has successfully and satisfactorily conducted topographic surveys for many clients, including the Louisiana Department of Transportation and Development, for many years. We have a great working relationship with LADOTD and are very familiar with the Location and Survey Section's expectations. We strive to consistently meet and even exceed these expectations. The following steps describe, in detail, the Lazenby & Associates approach to performing topographic surveys for LADOTD.

2.1– Establish Project Control

The first step in establishing project control will be to set and occupy static GPS points. The GPS points will typically be 5/8" rebar, and will be occupied for a minimum of three sessions, each consisting of three to four hours occupation time. The raw data obtained will be processed using NGS CORS. Final State Plan Coordinates will be verified using NGS OPUS solutions. The horizontal datum will be based on NAD 83 (2011) EPOCH 2010.00.

A RTK traverse will then be established using the calculated static GPS points. The RTK network will typically consist of points that are spaced at approximately 800' to 1,200' intervals.

Conventional traverse will be used through heavily wooded sections that are not conducive with GPS survey methods.

Vertical control across all GPS points will be run using either three-wire forward/single wire back level loops or digital levels. The basis for elevation is established using one of the static GPS point elevations. The vertical datum is NAVD 88 (GEOID 18). Temporary Bench Marks will be established and included in the level loops. Vertical control for topo traverse points will be established using the same leveling process.

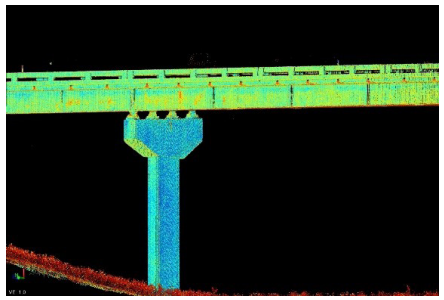
The final step in establishing project control is to prepare a Control Sketch showing all primary and secondary points. This document will be submitted to LADOTD for review and approval prior to collecting topographic survey data.

2.2 – Perform Field Work

After the Control Sketch has been accepted by LADOTD, collection of field data will commence. Field data will be collected using a 3D LiDAR scanner (terrestrial, mobile or aerial), GPS, and conventional surveying techniques. Bathymetric data can also be collected if the project requires it to be performed. The survey crews to be used are familiar with LADOTD survey feature codes and will properly code data as it is collected.

The Lazenby & Associates survey crew personnel have successfully completed the required ATSSA Flagger and Traffic Control Technician courses. At a minimum, the party chief of each survey crew has ATSSA Traffic Control Supervisor certification

2.3 – Processing of Survey Data



As field survey data is submitted to office personnel, electronic processing of this data begins. Conventional and GPS data is processed using Microstation and InRoads Survey (or its successor) software. Point cloud data from 3D LiDAR is first processed using Trimble Business Center and TopoDOT to extract the desired topographic features, which are then added to the electronic survey file and .DGN.

A survey line of the existing roadway is calculated using regression techniques to determine an alignment that best fits the topo data. Additional or secondary alignments (side roads, etc.) are established using these same techniques. Cogo points are assigned to all calculated alignments.

2.4 – Existing Drainage Maps

When required by task order, an existing drainage map of the project area will be prepared. The drainage map will be prepared in accordance with guidelines shown in the LADOTD Location and Survey Manual, dated October, 2023.

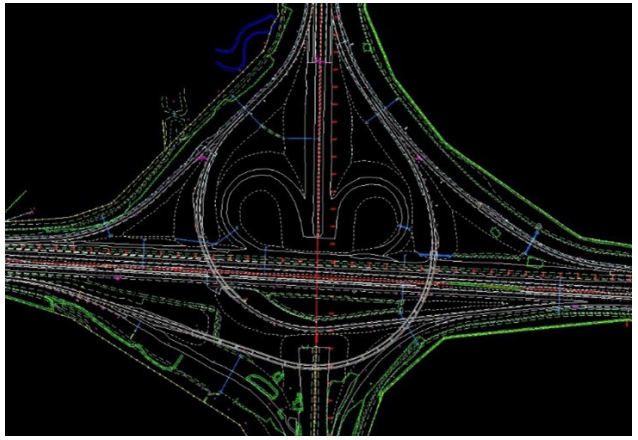
2.5 – Utilities

Existing utility owners will be identified using Louisiana One-Call. It is recognized that not all utilities are members of Louisiana One-Call. To this end, we will contact local municipalities as applicable to determine the presence of any additional utilities, as well as contacting water companies that operate within the project limits if no water company shows up on the One-Call ticket. Lazenby & Associates will also work closely with Utility Specialist as required to identify utility owners and contact information.

One challenge sometimes encountered with utility companies is getting the utility owners to mark their lines in the field so they can be surveyed. Lazenby & Associates will exercise due diligence in an attempt to make contact with each owner by phone and/or email to coordinate the marking of utilities so the marks can be surveyed. When utility owners refuse to mark their existing utilities, documentation of our requests will be included in the survey deliverables.

A list of utility owners and a contact person will be submitted with the survey deliverables.

2.6 – QA/QC



The Microstation .DGN deliverables will be processed through CADconform to ensure that they are in accordance with DOTD CAD standards. All feature codes are checked to ensure that all required attributes are complete and accurate.

The .DTM file will be carefully examined to ensure that there are no elevation errors due to incorrect measurements, rod heights, etc., point density is sufficient to provide correct triangulation, and that the existing surface model is accurate.

The existing drainage map will be reviewed by a Professional Engineer for accuracy, including correct pipe sizes, types and invert elevations, in addition to correct representation of drainage areas and ridge lines.

A checklist of final deliverables will be completed to ensure that all required information is submitted to the client.

Property Survey & Right-of-Way Maps

Project Approach and Methodology for Property Survey & Right-of-Way Maps

Lazenby & Associates, Inc. has successfully and satisfactorily conducted Boundary Surveys and delivered Right-of-Way Maps for many clients, including the Louisiana Department of Transportation and Development, for many years. We have a great working relationship with LaDOTD and are very familiar with the Location and Survey Section's expectations. We strive to consistently meet and exceed these expectations. The following steps describe, in detail, the Lazenby & Associates, Inc. approach to performing Boundary Surveys and Right-of-Way Maps for LaDOTD.

Sequence of Work: Property Surveys

Property Surveys consist of first performing the necessary field work to locate monuments followed by the office work to determine the boundary lines so ROW maps can be prepared for the project site. Property corner monuments are recovered by the field crew and surveyed in order to tie these monuments to the control network established during the topographic surveying phase of the project. Conventional and GPS RTK survey methods are used in the field to locate and determine coordinates for the recovered monuments. Coordinates of the property corner locations recovered are brought back to the office for additional calculations to determine boundary and servitude lines of affected properties. Boundary lines and plats are drawn for the project site and ROW maps are prepared. A list of current property owners is compiled.

The Lazenby & Associates survey crew personnel have successfully completed the required ATSSA Flagger and Traffic Control Technician courses. At a minimum, the party chief of each survey crew has ATSSA Traffic Control Supervisor certification.

Sequence of work: Boundary Surveys

Each project is located by Section, Township and Range. Information is compiled including GLO Maps, Previous Surveys and Aerial Maps. If full title work is provided by LaDOTD at the beginning of the Task Order, this information is used to generate the properties within an aerial map. If the title work is not provided, Lazenby & Associates, Inc will go to the Project Site Parish Courthouse and develop Title Take-Offs for each property. This avoids delays in the project and enables the Field Work to begin while the Title Research Reports are being developed.

The various parcels and Existing Right-of-Way are drafted into an Aerial Map at this time. The Project Manager is provided with a package for the Field Crew which includes the Title Work, Property Plots, Existing Right-of-Ways, and calculated coordinates of property monuments noted in the Title Work.

Upon completion of the Field Survey, the survey data is processed and the property lines are adjusted based on the field results. All data is gathered per LaDOTD procedures including all Maps, Plats, Images, Project Alignment Data, Title Work and Survey Data into a Microstation DGN File. This information is provided to LaDOTD utilizing ProjectWise.

16. WORKLOAD

State Project Number	Project Name	Remaining Unpaid Balance
4400010428, H.004774.5 (L&A, Inc. 17E051.00)	Kansas Lane-Garrett Road Connector & I-20 Improvements, Ouachita Parish (Road Design-Urban & Rural Design-Controlled Access) (98% Complete)	$21,523
4400026026 (L&A, Inc. 23E055.00) Task Order No. 1 S.P.N. H.009837.5 (L&A, Inc. 23E055.01) Task Order No. 2 S.P.N. H.015231.5 (L&A, Inc. 23E055.02	IDIQ Contract for Roadway Design Safety Statewide LA 64: Roundabout @ LA 1019 Routes: LA 1019, LA 64 Livingston Parish (46% Complete) US 80 Roundabout @ US 80, LA 15 & LA 546 Routes: US 80, LA 15 & LA 546 Ouachita Parish (19.8% Complete)	N/A $168,707 $261,592
4400026913 (L&A, Inc. 23E088.00) Task Order No. 1 S.P.N. H.015200.5 (L&A, Inc. 23E088.01) Task Order No. 2 S.P.N. H.016208.5 (L&A, Inc. 23E088.02) Task Order No. 4 S.P.N. H.016190.5 (L&A, Inc. 23E088.04) Task Order No. 5 S.P.N. H.016192.5 (L&A, Inc. 23E088.05) Task Order No. 6 S.P.N. H.016258.5 (L&A, Inc. 23E088.06) Task Order No. 7 S.P.N. H.016259.5 (L&A, Inc. 23E088.07)	IDIQ Contract for the Design of Safety Projects with Majority of Work in District 04, 05& 58, Statewide East Street & Parkview Drive Sidewalk (Monroe) Ouachita Parish (40% Complete) Shephard Street Sidewalk (Minden) Webster Parish LA 4 & US 167 Sidewalk (Jonesboro) US 425 & Arkansas Street (Sidewalk (Ferriday) Concordia Parish Local Road Striping & Signing (Monroe) Ouachita Parish Local Road Signal Improvements (Monroe) Ouachita Parish	N/A $113,099 $3,000 $11,500 $9,000 $6,000 $1,500

16. WORKLOAD (Continued)

4400025025 (L&A, Inc. 22E048.00)	Infrastructure Investing & Jobs Act (IIJA) Off-System Bridge Program – District 05 (13 Off-System Bride Structures) (69% Complete)	N/A
1. H.015463.5 (L&A, Inc. 22E048.13)	White Oak Landing Over Edmonds Creek Union Parish Off-System Bridge (88.26% Complete)	
2. H.015462.5 (L&A, Inc.22E048.12)	Pilgrim Rest Church Road Over Steep Bank Creek Union Parish Off-System Bridge (67.94% Complete)	$5,750
3. H.015461.5 (L&A, Inc. 22E048.11)	Firetower Road Over Rock Creek Union Parish Off-System Bridge (68.11% Complete)	$42,312
4. H.015454.5 (L&A, Inc. 22E048.04)	Keppler Creek Road Over Sugar Creek Jackson Parish Off-System Bridge (67.87% Complete)	$41,812
5. H.015455.5 (L&A, Inc. 22E048.05)	Spring Creek Road Over Wafer Creek Lincoln Parish Off-System Bridge (67.87% Complete)	
6. H.015457.5 (L&A, Inc. 22E048.07)	Olen Hughes Road Over Bayou Bonne Idee Morehouse Parish Off-System Bridge (69.23% Complete)	$42,112
7. H.015458.5 (L&A, Inc. 22E048.08)	Oscar Lum Road Over Williamson Creek Morehouse Parish Off-System Bridge (69.23% Complete)	$42,512
8. H.015337.5 (L&A, Inc. 22E048.01)	Mineral Springs Road Over Clark Creek Ouachita Parish Off-System Bridge (67.87% Complete)	$17,681
9. H.015459.5 (L&A, Inc. 22E048.09)	Lapine Road Over Rogers Creek Ouachita Parish Off-System Bridge (67.87% Complete)	
10. H015460.5 (L&A, Inc. 22E048.10)	Little Road Over Creek Richland Parish Off-System Bridge (58.07% Complete)	$14,763
11. H.015453.5 (L&A, Inc. 22E048.03)	Hale Road Over Alligator Bayou West Carroll Parish Off-System Bridge (64.28% Complete)	$42,812
12. H.015456.5 (L&A, Inc. 22E048.06)	Hodge Road Over Cypress Bayou Madison Parish Off-System Bridge (60.88% Complete)	$48,246
13. H.015452 (L&A, Inc. 22E048.02)	Henderson Loop Road Over Wildcat Bayou East Carroll Parish (Not Authorized)	$48,046
		$48,246
		$56,898
		N/A

16. WORKLOAD (Continued)

4400021887 (L&A, Inc. 21E071.00) H.012047 (L&A, Inc. 21E71.01) H.012542 (L&A, Inc. 21E071.02) H.012543 (L&A, Inc. 21E071.03) H.012544 (L&A, Inc. 21E071.04)	Contract for Replacement of Fifteen (15) Bridges, Multiple State Project Number, District 08 (21% Complete) US 167 Bridge Over Big Creek Winn Parish LA 114 Bridge Over Belle Deau Bayou LA 107 Bridge Over Bayou Jack Relief Avoyelles Parish LA 8 Bridge Over Big Creek Grant Parish LA 120 Bridge Over Creek LA 120 Bridge Over Bayou Scie Relief No. 1 LA 120 Bridge Over Bayou Scie Relief No. 2 LA 120 Bridge Over Bayou Scie LA 120 Bridge Over Bayou Scie Relief No. 3 LA 474 Bridge Over Midkiff Creek Sabine Parish	N/A $432,142 $242,939 $117,461 $478,670
4400019714 (L&A, Inc. 20S038.00)	IDIQ Contract for Hydrographic Surveying Services – Statewide with Majority of Work in Districts 04, 05, 08 & 58 (44.85% Complete) Active Task Orders At This Time (T.O. #10 – 42% Complete)	N/A $58,374
4400021972 (L&A, Inc. 21S063.00)	IDIQ Contract for Topographic Surveys, (None – NHS Surveys) (50.36% Complete)	N/A
4400027916 (L&A, Inc. 24S014.00	IDIQ Contract for Professional Boundary Surveying Services – Statewide with Majority of Work in Districts 04 & 05 (0.05% Complete), No Active Task Orders At This Time	N/A
4400027917 (L&A, Inc. 24S015.00) Task Order No. 1 S.P.N. H.004825.5 (L&A, Inc. 24S015.01)	IDIQ Contract for Professional Boundary Surveying Services – Statewide with Majority of Work in District 08 & 58, (30.49% Complete) LA 28: Widening: LA 3128 to LA 116 Rapides Parish (41% Complete)	N/A $168,321

APS Engineering & Testing
(Subconsultant)

BPPJ Standard Submittal Form

BPPJ Standard Submittal Form

(Revised December 12, 2024)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

Firm should fill in the BPPJ Standard Submittal Form provided without altering the text provided in the form. Firm should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

1. Contract Title as shown in the advertisement	Entity Contract For Congestion Relief Winfield Road Bossier Parish
2. Contract Number(s) if shown in the advertisement	Parish Contract No. 2025-118 State Project No. H.003855 Federal AID Project No. H003855
3. State Project Number(s), if shown in the advertisement	
4. Firm Name (as registered with the Louisiana Secretary of State where such registration is required by law)	**APS Engineering and Testing, LLC**
5. Firm License Number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS or American Institute of Certified Planners (AICP or other professional regulatory board, as applicable) if registration is required under Louisiana law)	**5198**
6. Mailing Address	5261 Highland Rd #320, BR, LA 70808
7. Name, title, phone number, and email address of firm's Contract Point of Contact	Sergio Aviles, P.E./ President/225.456.5714sergio@aps-testing.com
8. Name, title, phone number, and email address of the official with signing authority for this proposal	Sergio Aviles, P.E./ President/225.456.5714sergio@aps-testing.com

1. This is to certify that all information contained herein is accurate and true, and that I presently have sufficient staff to perform these services within the designated time frame.

   In accordance with LA R.S. 39:1602.1, 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.

   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.

Signature (shall be the same person as #8):

Date: June 25, 2025

2. 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.

Firm(s)	Firm Percent
See Prime Firm's Form	

11. Organiztional Chart

All personnel, including subconsultants are shown in the Prime Firm's Organizational Chart.

12. Minimum Personnel Requirements (MPRs)

Requirement (as stated in advertisement)	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)	License/ certification expiration date
Sergio Aviles, P.E.	Geotechnical	APS	CE/33571	March 2027

13. Short Resumes

APS Engineering and Testing, LLC			
Name	**Sergio Aviles, PE, MASCE**	Years of Relevant Experience with this Employer	12
Title	President	Years of Relevant Experience with Other(s) Employers	10
Degree(s)/Years/Specialization	BS Civil Engineering/ 2001/ Geotechnical		
Active Registration Number/State/Expiration Date	0033571/ LA / 03-31-2026		
Year Registered	2007	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Project Manager/Designer/Field Crew and Lab Management		

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).
06/20–Present	**Rural Bridge Replacement Initiative:** The scope includes geotechnical investigation and design for the replacement of 60 structures on the LA state highway system. Geotechnical investigation consists of drilling, laboratory testing, soil classification and site characterization. Engineering analysis includes slope stability analysis (when applicable) and pile capacity analysis for foundations to support new bridge structures. Mr. Aviles is the Supervisor-Engineer to the Geotechnical Investigations.
09/19–10/24	**Project No. H.0041005.5 and .6: I-10 LA415 to Essen Lane on I-10 and I-12:** The scope included drilling and sampling a total of 52 deep borings starting at the Washington Exit and ending at the LSU Lakes. APS drilled a total of eight over the water borings and 44 land borings. Along with this drilling and sampling, APS tested for strength and engineering characteristics of the soils with approximately 1000 Triaxial Compressions, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. APS is currently providing PDA instrumentation, testing, and CAPWAP analysis. Mr. Aviles is the Project Manager to the Design Team.
11/22–05/24	**Project No. H.001344 US 190: LA 437 to US 190 BUS:** APS was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for foundation recommendations. The scope also includes conducting testing on the subsurface, base and concrete placement at the site to enable an evaluation of an acceptable standard for the proposed structures. APS also provided PDA instrumentation, testing, and CAPWAP analysis. Mr. Aviles was the Project Manager for the Project Design Team.
01/22–05/24	**Project No. H.001352.6 and H.002273.5: Comite River Diversion Bridge at LA 67, LA 19, and LA 19 RR Bridge:** APS was selected with the winning team for the Design of the Diversion CMAR project. APS performed the Geotechnical Design for the project. The scope also included conducting testing on the subsurface, base and concrete placement at the site to enable an evaluation of an acceptable standard for the proposed roadway structures. APS performed a total of four PDAs during construction monitoring. Mr. Aviles was the Project Manager for the Project Design team.
09/21–05/24	**Port Hudson-Pride Road (LA-964 – LA-19)**- The scope included geotechnical investigation to enable an evaluation of an acceptable foundation for the proposed pavement rehabilitation and new bridge. A total of 26 borings were drilled and tested for Geotechnical recommendations. Mr. Aviles was the Manager to Design Team.
11/19–12/23	**Project No. H.010155: US 90 Railroad Overpass SE of LA 85**- APS was selected with the winning team for the Geotechnical Investigation and Design for the proposed new overpass. A total of six deep borings were drilled and tested for Geotechnical recommendations. Mr. Aviles was the Manager to Geotechnical Design Team.
12/21–09/22	**Ward Creek at Seigan Ln-** The scope services for this project included subsurface investigation to enable an evaluation of an acceptable foundation for the proposed Ward Creek Channel Improvements. APS drilled two deep borings and tested recovered soils for strength and engineering characteristics. Geotechnical reporting included slope stability analysis of the proposed channel, as well as general construction and erosion recommendations. Mr. Aviles was the Manager to the Geotechnical Team.

Sergio Aviles resume continued

03/21–11/22	N**icholson Drive Segment 2 (Bluebonnet Blvd-Ben Hur Rd.)**- The scope of services for this project included subsurface exploration of conditions at the site to enable an evaluation of an acceptable foundation for the proposed pavement and the new bridge. APS drilled two soil borings to 110 feet deep each at Elbow Bayou Crossing, three soil borings to 80 feet deep each at highest fill placement locations, one soil boring to 20 feet deep at traffic light intersection and 32 soil borings to six feet deep each for pavement at 700 feet intervals at selected boring locations. APS tested recovered soils for strength and engineering characteristics. The geotechnical report contained pavement and deep foundation recommendations, fill area settlement recommendations, and general construction recommendations. Mr. Aviles was the Manager to the Geotechnical Team.
01/21–04/22	**Bluebonnet Boulevard (Perkins Road-Picardy Avenue)**- The purpose of the project was widening of Bluebonnet Boulevard at selected locations, addition of pedestrian walkways, replacement of existing bridge over Dawson Creek and addition of green infrastructure. The scope of services included subsurface exploration of conditions at the site to enable an evaluation for the proposed pavement. APS drilled nine pavement borings to six feet deep from the top of existing subgrade material, two soil borings to a depth of 10 feet each for the green infrastructure, and two borings to a depth of 100 feet each for the bridge. The scope of services also included conducting laboratory tests on selected samples recovered from the soil borings. The geotechnical report contained rigid pavement recommendations, deep foundation recommendations, green infrastructure recommendations, as well as site preparation and general construction recommendations. Mr. Aviles was the Manager to the Geotechnical Team.
03/15-04/15	**Holly Drive Bridge Replacement- St. Tammany Parish:** The scope included geotechnical investigation for the replacement of a bridge structure in Covington, Louisiana. APS performed piles LRFD vertical resistance analyses for square PPC piles with sizes ranging 16-inch, 18-inch and 24-inches, roadway design, and culvert design. Mr. Aviles was the Principal Engineer for the Geotechnical Investigation.

13. Short Resumes

APS Engineering and Testing, LLC					
Name	**Sairam Eddanapudi, PE, ME**			Years of Relevant Experience with this Employer	12
Title	Chief Engineer			Years of Relevant Experience with Other(s) Employers	9
Degree(s)/Years/Specialization			ME/2002/Civil Engineering BE/1999/Civil Engineering		
Active Registration Number/State/Expiration Date			0035129/ LA / 03-31-2026		
Year Registered	2009	Discipline	Civil		
Contract Role(s)/Brief Description of Responsibilities		Design Engineer/Laboratory QA Manager			

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).
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Sairam Eddanapudi, resume continued

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13. Short Resumes

APS Engineering and Testing, LLC			
Name	**Surendra Pathak, PE, MS**	Years of Relevant Experience with this Employer	11
Title	Geotechnical Engineer	Years of Relevant Experience with Other(s) Employers	10
Degree(s)/Years/Specialization	MSCE/ 2013/ Civil Engineering BE/ 2007/ Civil Engineering		
Active Registration Number/State/Expiration Date	0043487/ LA/ 09-03-2025		
Year Registered	2019	Discipline	Civil
Contract Role(s)/Brief Description of Responsibilities	Design Engineer/QA-QC Field Testing/Laboratory QA		

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).
06/20–Present	**Rural Bridge Replacement Initiative:** The scope includes geotechnical investigation and design for the replacement of 60 structures on the LA state highway system. Geotechnical investigation consists of drilling, laboratory testing, soil classification and site characterization. Engineering analysis includes slope stability analysis (when applicable) and pile capacity analysis for foundations to support new bridge structures. Mr. Pathak is the Project Manager to the Geotechnical Investigations.
09/19–10/24	**Project No. H.0041005.5 and .6: I-10 LA415 to Essen Lane on I-10 and I-12:** The scope included drilling and sampling a total of 52 deep borings starting at the Washington Exit and ending at the LSU Lakes. APS drilled a total of eight over the water borings and 44 land borings. Along with this drilling and sampling, APS tested for strength and engineering characteristics of the soils with approximately 1000 Triaxial Compressions, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. APS is currently providing PDA instrumentation, testing, and CAPWAP analysis. Mr. Pathak is the Senior Engineer for the Project Design Team.
11/22–05/24	**Project No. H.001344 US 190: LA 437 to US 190 BUS**: APS was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for foundation recommendations. The scope also includes conducting testing on the subsurface, base and concrete placement at the site to enable an evaluation of an acceptable standard for the proposed structures. APS also provided PDA instrumentation, testing, and CAPWAP analysis. Mr. Pathak is the Senior Engineer for the Project Design Team.
01/22–05/24	**Project No. H.001352.6 and H.002273.5: Comite River Diversion Bridge at LA 67, LA 19, and LA 19 RR Bridge:** APS was selected with the winning team for the Design of the Diversion CMAR project. APS performed the Geotechnical Design for the project. The scope also included conducting testing on the subsurface, base and concrete placement at the site to enable an evaluation of an acceptable standard for the proposed roadway structures. APS performed a total of 4 PDAs during construction monitoring. Mr. Pathak was the Senior Engineer for the Project Design Team.
09/21–05/24	**Port Hudson-Pride Road (LA-964 – LA-19)**- The scope included geotechnical investigation to enable an evaluation of an acceptable foundation for the proposed pavement rehabilitation and new bridge. A total of 26 borings were drilled and tested for Geotechnical recommendations. Mr. Pathak was the Senior Engineer for the Project Design Team.
11/19–12/23	**Project No. H.010155: US 90 Railroad Overpass SE of LA 85-** APS was selected with the winning team for the Geotechnical Investigation and Design for the proposed new overpass. A total of six deep borings were drilled and tested for Geotechnical recommendations. Mr. Pathak was the Senior Engineer for the Project Design Team.

Surendra Pathak resume continued

12/21–09/22	**Ward Creek at Seigan Ln-** The scope services for this project included subsurface investigation to enable an evaluation of an acceptable foundation for the proposed Ward Creek Channel Improvements. APS drilled two deep borings and tested recovered soils for strength and engineering characteristics. Geotechnical reporting included slope stability analysis of the proposed channel, as well as general construction and erosion recommendations. Mr. Pathak was an Engineer to the Geotechnical Team.
03/21–11/22	**Nicholson Drive Segment 2 (Bluebonnet Blvd-Ben Hur Rd.)-** The scope of services for this project included subsurface exploration of conditions at the site to enable an evaluation of an acceptable foundation for the proposed pavement and the new bridge. APS drilled two soil borings to 110 feet deep each at Elbow Bayou Crossing, three soil borings to 80 feet deep each at highest fill placement locations, one soil boring to 20 feet deep at traffic light intersection and 32 soil borings to six feet deep each for pavement at 700 feet intervals at selected boring locations. APS tested recovered soils for strength and engineering characteristics. The geotechnical report contained pavement and deep foundation recommendations, fill area settlement recommendations, and general construction recommendations. Mr. Pathak was an Engineer to the Geotechnical Team.
01/21–04/22	**Bluebonnet Boulevard (Perkins Road-Picardy Avenue)-** The purpose of the project was widening of Bluebonnet Boulevard at selected locations, addition of pedestrian walkways, replacement of existing bridge over Dawson Creek and addition of green infrastructure. The scope of services included subsurface exploration of conditions at the site to enable an evaluation for the proposed pavement. APS drilled nine pavement borings to six feet deep from the top of existing subgrade material, two soil borings to a depth of 10 feet each for the green infrastructure, and two borings to a depth of 100 feet each for the bridge. The scope of services also included conducting laboratory tests on selected samples recovered from the soil borings. The geotechnical report contained rigid pavement recommendations, deep foundation recommendations, green infrastructure recommendations, as well as site preparation and general construction recommendations. Mr. Pathak was an Engineer to the Geotechnical Team.

14. Relevant Projects

Firm Name	**APS Engineering and Testing, LLC**		
Project Name	I-10 Widening LA 415 to Essen LN	Firm Responsibility	Sub
		Owner's Name	DOTD
Project Number	H.004100	Owners Project Manager	Kristy Smith, PE
Project Location	Baton Rouge, LA		
Owners Address, Phone, Email	1201 Capital Access Rd., Baton Rouge, LA 70802-4438/ 225-379-1016/ kristy.smith2@ls.gov		
Services Commenced by this Firm (mm/yy)	09/19	Total Consultant Contract Cost ($1,000's)	N/A
Services Completed by this Firm (mm/yy)	09/24	Cost of Consultant Services Provided by this Firm ($1,000's)	$400K

Project Description:

SCOPE- Geotechnical investigation to provide the client with necessary information for the planning and design of I-10 widening. APS drilled and sampled a total of 52 deep borings beginning at the Washington Exit and ending at the LSU lakes. Along with drilling and sampling, APS tested for strength and engineering characteristics of the soils. The testing program included visual classification, determination of water (moisture) content, ash content, organic material of peat and other organic soils, amount of materials finer that 75-µm (No. 200) sieve in soils by washing, and approximately 1,000 triaxial compression, unconsolidated drained or undrained (UU) and Atterberg limits performed.

Similarities to Professional Geotechnical Services

- √ **Geotechnical Explorations (GE)**
- √ **Geotechnical Design (GD)**
- √ **Geotechnical Construction (GC)**
- √ **CMAR**
- √ **Constructability**
- √ **Contract Management (CM)**

Team Members Involved:

Sergio Aviles, P.E . - Project Manager

Sai Eddanapudi, M.E . , P.E. - Project Engineer

Surendra Raj Pathak, M.S. , P.E. - Staff Engineer

14. Relevant Projects

Firm Name	**APS Engineering and Testing, LLC**		
Project Name	Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge	Firm Responsibility	Sub
		Owner's Name	Huval & Associates, Inc.
Project Number	H.001352; H.002273	Owners Project Manager	Thomas M. Gattles III, P.E.
Project Location	East Baton Rouge, LA		
Owners Address, Phone, Email	922 West Don't des Mouton Rd,. Lafayette, LA 70507 / 337-264-3798/ tgattle@huvalassoc.com		
Services Commenced by this Firm (mm/yy)	11/19	Total Consultant Contract Cost ($1,000's)	N/A
Services Completed by this Firm (mm/yy)	06/22	Cost of Consultant Services Provided by this Firm ($1,000's)	$150K

Project Description:

SCOPE- Geotechnical investigation to provide the client with necessary information for planning and building of LA-19 bridge (slope- stability/embankment), LA-19 RR bridge (embankment/MSE wall settlement/retaining wall), LA-19 twin bridges (PPC piles), LA-67 bridge (drill shafts). APS drilled and sampled a total of 19 borings ranging from 50ft - 100ft in depth. Testing of soils was performed in-house by APS laboratory. The testing schedule included visual classification, standard methods for determining water (moisture) content, liquid limit, plastic limit and plasticity, unconsolidated-undrained triaxial compressions, and one-dimensional consolidations.

As the project moved into the construction phase, APS provided geotechnical and structural construction services including PDA instrumentation, testing, and CAPWAP analysis.

Similarities to Professional Geotechnical Services

- √ **Geotechnical Explorations (GE)**
- √ **Geotechnical Design (GD)**
- √ **Geotechnical Construction (GC)**
- √ **CMAR**
- √ **Constructability**
- √ **Contract Management (CM)**

Team Members Involved:

ENGINEERING

Sergio Aviles, PE - Project Manager

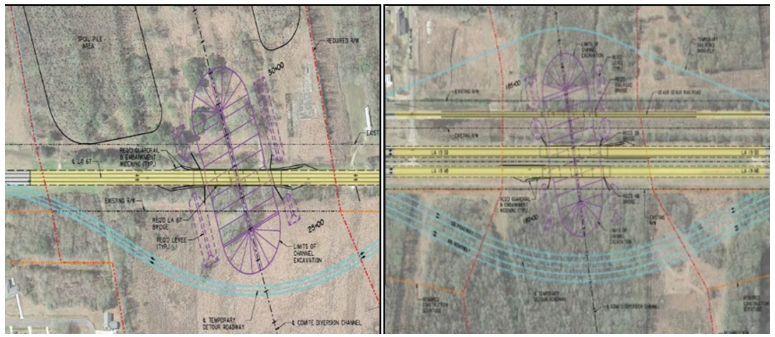
Sai Eddanapudi, ME, PE - Project Engineer

Surendra Raj Pathak, MS, PE - Staff Engineer

LABORATORY TESTING

Sergio Aviles, PE - QA/ QC

Sai Eddanapudi, ME, PE- QA/ QC



15. Additional Information

APS Engineering and Testing, LLC Engineers bring a wealth of experience to this job. Our three LA Licensed engineers combined bring over 30 years of engineering experience and construction management. Mr. Sergio Aviles, P.E., the proposed project manager for this contract has gained experience similar to the scope of this project through numerous bridge and roadways projects covering Louisiana. He also worked for the LADOTD for five years in the Pavement & Geotechnical Section.

PERFORMANCE HISTORY

APS Engineering and Testing, LLC have a combined over 40 years on the industry, the proposed type work, and has overseen hundredths of projects for Public Work entities. Projects ranging from $5k to $800K APS have the staff to complete small to large jobs on time and on budget.

FIRM OFFICE LOCATION

APS Engineering and Testing, LLC will perform the all the work associated with this contract out of our Baton Rouge office.

APS PERSONNEL

The following employees from APS are Registered Professional Civil Engineers in Louisiana with at least 10 years of geotechnical engineering and construction experience each:

Sergio Aviles, P.E., LA License #: PE.0033571; Years of Experience: 22 Project Manager for this project, has over seven years experience in geotechnical and civil engineering. Mr. Aviles received project experience throughout Louisiana with the Pavement & Geotechnical Section of Louisiana Department of Transportation and Development (LADOTD). Mr. Aviles' duties for LADOTD included pile foundation design and construction inspection of piles, slope stability design, embankment settlement calculations, design and construction inspection of drilled shafts, MSE wall design, sheet pile design, and testing services that included, PDA, WEAP, and CAPWAP analysis of piles. Prior to signing on with the Pavement & Geotechnical Section of LADOTD, Mr. Aviles participated in the LADOTD Rotational Engineer Intern program developed by the Louisiana Transportation Research Center (LTRC). During the program, Mr. Aviles learned most of the duties and responsibilities of LADOTD main design and construction sections (Bridge Design, Road Design, Hydraulic Design, Head Quarter construction, and district construction). Mr. Aviles was also an Adjunct Faculty Professor at Louisiana State University and Southern University where he teaches Soil Mechanics and Construction Material Testing to under graduate students (2012-2014).

Sairam (SAI) Eddanapudi, M.E., P.E, – LA License #: PE.0035129; Years of Experience: 20. Geotechnical Project Engineer. His geotechnical experience includes field engineering, soils and concrete and also, quality control inspection of shallow and deep foundations. He acted as a field supervisor and coordinator of geotechnical drilling and sampling operations. Sairam's laboratory experience includes performing laboratory tests to determine engineering and physical characteristics of soils and aggregate. He has also has experience in geotechnical analysis of shallow foundations, precast and pre-stressed concrete piles, auger cast piles, drilled shaft foundations, embankment stability and settlement, and retaining walls.

Professional Staff:

APS has a professional staff consisting of three Professional Engineers and six engineer interns. The entire professional staff of APS has extensive experience in performing subsurface investigations, geotechnical engineering, environmental site assessment, and construction materials testing services.

Subprofessional Expertise:

APS presently employs approximately a staff of 35 Drillers, inspectors, and technicians with field, laboratory testing, and construction material experience. These technicians are experienced in virtually every aspect of subsurface investigations, construction testing, and environmental services. Our technicians are OSHA Safety Certified and our personnel conform to strict corporate alcohol, drug and safety policies.

WORK ZONE TRAINING REQUIREMENTS

APS recognizes DOTD's on-going commitment to Work Zone Safety. As evidenced in our submittal, the following staff have the appropriate Work Zone Safety Certifications:

- Manager: Sergio Aviles – Certified Traffic Control Technician and Flagger
- Project Engineer: Sairam Eddanapudi – Traffic Control Technician
- Field Engineer: Surendra Pathak – Traffic Control Supervisor and Flagger
- Senior Technician: Paul Fulcher – Traffic Control Technician and Flagger

APS Laboratory

APS Baton Rouge office has a fully equipped geotechnical laboratory with an integrated data acquisition and management system that reduces data entry errors and speeds data collection and reporting. The lab is staffed full-time by a lab manager, four laboratory technicians.

Mr. Eddanapudi provides engineering management and direction for the lab testing procedures. Our in-house laboratory has been completing geotechnical tests expected under LADOTD standards, and we very familiar with LADOTD specifications and requirements.

APS Engineering and Testing, LLC is a geotechnical engineering, environmental, construction engineering, construction materials testing and inspection company that provides a broad range of related services which include but are not limited to:

- Geotechnical Engineering Analyses-Geotechnical investigations and reports, foundation design, pavement design, slope stability analyses, settlement and down drag analyses, marsh creation, dredging, cofferdam and excavation design, bulkheads, docks, wharfs, borrow pits, WEAP, and CAPWAP;
- Laboratory Testing- Strength testing UC, CU, CD, UU, consolidation, and classification testing for soils and aggregates.
- APS is an AASHTO and USACE certified lab.

METHODOLOGY

Geotechnical Investigation and Sampling: APS will coordinate all field reconnaissance activities including rights of entry, utility locations, access, GPS location, elevation determination, and mobilization. It is assumed that 43 shallow subgrade soil survey boring, along with associate pavement corings, will be required on this project and 17 deep borings will be extracted within the vicinity of the five proposed bridge sites. APS will retrieve high quality undisturbed soil samples lead by field personnel experienced in techniques described in ASTM D-1587. Deep soil borings will be extracted according to accepted LADOTD drilling methods and sampling frequencies for cohesive (Shelby Tubes) and cohesionless (Standard Penetration Testing) soils. Shallow borings for subgrade soil surveys will be made utilizing continuous-flight augers and samples will be either extruded in the field or extruded and tested in the laboratory depending on the soil conditions and within LADOTD requirements. At the completion of each soil boring, the borehole will be sealed in accordance with applicable local, state, and federal regulations.

Laboratory Testing: APS's geotechnical testing laboratories are operated under a certified quality assurance system implemented and maintained by engineers serving as on-site QA officers. All laboratory data is subject to quality control checks and is then processed electronically to generate soil boring logs and gINT database files in standard LADOTD format.

Geotechnical Analysis and Design: APS will perform embankment slope stability utilizing the Spencer method for the new spill slopes of all five bridges. APS will analyze the affects of required embankment needed for the new roadway along the entire corridor and propose locations where pre-consolidation efforts, such as surcharging, will be needed.

16. WORKLOAD

State Project Number	Project Name	Remaining Unpaid Balance
H.01254.6	Wiggins Bayou Bridge	$52,609
H.014247	LA 399 Bridges Near Fullerton	$24,307
H.014245	LA 119; Bayou Pierre & Creek Bridges	$23,654
H.014982	Marathon Rd over Dry Creek	$46,490
H.012068	LA 1026 Creek Bridge	$23,519
H.014978	Bellard Loop over Untamed Drainage Ditch	$41,723
H.016323	LA 37 Glass Branch Bridge	$22,005
H.016326	LA 36 Drain Bridge Pearl	$22,615
H.016322	LA 81: W-11 Lateral & Bayou Black Bridges	$39,335
H.016312	LA 3116 Creek Bridges	$59,216
H. 016321	LA 970 Creek Bridge	$21,058
H.016311	LA 1123 Box Culvert Creek Bridge	$59,399
H.016324	LA 1047: Drain Bridge	$22,608
	Total	$458,538

Vectura Consulting Services
(Subconsultant)

BPPJ Standard Submittal Form

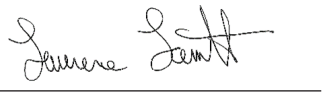
BPPJ Standard Submittal Form

(Revised December 12, 2024)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

Firm should fill in the BPPJ Standard Submittal Form provided without altering the text provided in the form. Firm should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

1. Contract Title as shown in the advertisement	Entity Contract For Congestion Relief Winfield Road Bossier Parish
2. Contract Number(s) if shown in the advertisement	Parish Contract No. 2025-118
3. State Project Number(s), if shown in the advertisement	H003855
4. Firm Name (as registered with the Louisiana Secretary of State where such registration is required by law)	Vectura Consulting Services, LLC
5. Firm License Number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS or American Institute of Certified Planners (AICP or other professional regulatory board, as applicable) if registration is required under Louisiana law)	EF.0005825
6. Mailing Address	PO Box 14269, Baton Rouge, LA 70898
7. Name, title, phone number, and email address of firm's Contract Point of Contact	Sheelagh Brin Ferlito, Principal, 225-223-6685 bferlito@vecturacs.com
8. Name, title, phone number, and email address of the official with signing authority for this proposal	Laurence Lambert, Principal, 225-223-6685, llambert@vecturacs.com

1. This is to certify that all information contained herein is accurate and true, and that I presently have sufficient staff to perform these services within the designated time frame. **In accordance with LA R.S. 39:1602.1,** 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. **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.**	 Signature (shall be the same person as #8): Date: June 25, 2025
2. 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.	Firm(s) / Firm Percent See Prime's BPPJ Standard Submittal Form

11. Organiztional Chart

All personnel, including subconsultants are shown in the Prime Firm's Organizational Chart .

12. Minimum Personnel Requirements (MPRs)

Requirement (as stated in advertisement)	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)	License/ certification expiration date
See Prime's BPPJ Standard Submittal Form				

13. Short Resumes

Vectura Consulting Services, LLC			
Name	**Sheelagh Brin Ferlito, PE, PTOE**	Years of Relevant Experience with this Employer	9
Title	Supervisor - Engineer	Years of Relevant Experience with Other(s) Employers	27
Degree(s)/Years/Specialization	B.S. / 1988 / Civil Engineer		
Active Registration Number/State/Expiration Date	PE. 0025383 / LA 09/30/2025		
Year Registered	1993	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Traffic Safety Analysis and Traffic Signal Design Lead		

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).
07/21 - Current	**H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, LA).** Brin is the task leader for Vectura for the Construction Engineering and Inspection of 24 traffic signals. Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
07/19 – Current	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA).** Brin is the lead traffic engineer for the entire New Capacity Projects program management team. All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin. She is in constant communication with the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects.
07/19 – Current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA).** Brin is the project manager for the temporary and permanent traffic signal plans for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first Public-Private-Partnership performed by DOTD.
09/20 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish, LA).** Brin is the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multilane roundabouts along LA 30 at I-10 Interchange ramps and at Tanger Boulevard. Vectura also developed signal timing plans for each phase of the construction to maintain progression along LA 30.
07/18 – 04/19	**LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Parish, Addis, LA**. Brin developed a Pedestrian Crosswalk Study and Traffic Signal Construction Plans for the intersection of LA 1 at LA 990 in Addis, LA. The study was based on DOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on DOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, DOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the DOTD Permit Request for Intersection Control Devices on a State Right of Way.
09/17-04/18	**US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, LA.** Brin developed a formal traffic study for a proposed crosswalk with pedestrian traffic signal equipment and pedestrian clearance timings based on DOTD requirements. Brin assisted with vehicle and pedestrian data collection, spot speed study, analyzed three-year intersection crash data and developed signal timing for pedestrians to cross the street. From the design study, a set of Traffic Signal Modification Plans were developed to implement the recommended alternative.

Sheelagh Brin Ferlito resume continued

08/15-05/17	**Enhancing Guidance for Evacuation Time Estimate Studies (Nuclear Regulatory Commission Rockville, MD)**. Brin conducted an applied research study of U.S. Nuclear Regulatory Commission guidance for developing evacuation time estimate studies and produced a technical basis for revision of NUREG/CR-7002 "Criteria for Development of Evacuation Time Estimate Studies" in support of the 2020 update of ETEs. Specifically, Brin was the lead VISSIM modeler for the "large" population models, which consisted of a 20-mile radius model. The VISSIM model input included traffic volumes distributed over eight hours, highway and intersection lane geometry using links and connectors, conflict areas, traffic signal and stop control and speed. Brin also developed Dynamic Traffic Assignment code to simulate that fastest route out of the evacuated zone.
04/14 – 12/14	**H.002301 Signal Design for N. Sherwood Forest Dr. Widening Project (Baton Rouge, LA)** As the project engineer, Brin was in responsible for data collection and design for three signalized intersections as part of a road widening project as per EBR DPW and DOTD requirements. Ms. Ferlito developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction.
07/12-03/14	**EBR 03-TS-CI-0026 CE&I for EBR Traffic Signal Systems Jefferson Highway Construction (Baton Rouge, LA)** Brin was the Project Resident Engineer on behalf of EBR for performing CE&I services for the construction of 11 traffic signals. She maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM / EOC building. She processed all monthly tasks in EBR formats as well as well as all items on the EBR project closeout checklist.
07/08-09/09	**SPN 013-05-0043 CE&I for EBR Traffic Signal Systems Phase IV Construction (Baton Rouge, LA).** Brin was the Project Resident Engineer for DOTD and EBR to perform CE&I services for the construction of 21 traffic signals. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for DOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report.
09/13 – 04/14	**S.P. 700-99-0477 Jefferson Hwy. Signal Design (Baton Rouge, LA).** Ms. Ferlito designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. Design also included traffic signal synchronization signal timing and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans, and specifications.

13. Short Resumes

Vectura Consulting Services, LLC					
Name	**Laurence Lucius Lambert, II, PE, PTOE, PTP**			Years of Relevant Experience with this Employer	9
Title	Supervisor-Eng			Years of Relevant Experience with Other(s) Employers	18
Degree(s)/Years/Specialization			B.S./1997/Civil Engr. MS/2006/Civil Engr. (Transportation focus) MBA/2010		
Active Registration Number/State/Expiration Date			PE No. 0029901 / LA / 3/31/2026		
Year Registered	2001	Discipline	Traffic Study and TMP Lead		
Contract Role(s)/Brief Description of Responsibilities		Traffic			

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).
12/23 – 08/24	**H.972501.1 South Range Road Operations Study Stage 0 Feasibility Study (Tangipahoa Parish, LA).** Laurence was the Principal in Charge for a Stage 0 for the Regional Planning Commission (RPC) to evaluate operating conditions of the S. Range Road corridor that included the intersection with Old Covington Highway. The corridor study included traffic data collection, pedestrian / bicycle counts, safety analysis, existing conditions analysis and alternative analysis. The results were summarized in a Stage 0 report.
05/23 – 05/24	**US 190B/Fremaux Ave Sidewalk Feasibility Study (Slidell, LA).** Laurence was the principal in charge for a sidewalk feasibility study that included data collection, safety analysis, alternative analysis, and a final report.
07/23 – 11/23	**H.015504.5 CCC Decorative Lighting Level 4 TMP (New Orleans, LA).** Laurence was the project manager for a Level 4 Traffic Management Plan (TMP) for the Crescent City Connection (CCC). Laurence oversaw the lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots". The results were summarized in a report that was reviewed by DOTD.
04/23 – 10/23	**H.014591.5 I-12: US 61 Bridges Girder Repairs (Baton Rouge, LA).** Laurence was the project manager for a Level 2 TMP for the interchange of I-12 at US 61. Laurence performed QA/QC for a lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots" where Laurence also performed QA/PC. The results were summarized in a report that was reviewed by DOTD.
04/18 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales (Ascension, LA).** Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.
01/23 – 02/24	**H.011504 Alexandria ITS Phase 2**. Laurence was the project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan for the Alexandria area.
10/21–03/22	**H.013256.5 I-10 ITS Scott to Lake Charles (Lead Traffic Engineer).** Laurence was the lead traffic engineer for a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.
09/20-04/21	**MOVEBR LA 67 (Plank Road) Enhancement Project (Baton Rouge, LA).** Laurence was the project manager to enhance transit, bicycle, and pedestrian mobility on Plank Road that required both City-Parish and DOTD approval. Laurence evaluated the proposed pedestrian crossings on LA 67 using the DOTD Traffic Engineering Manual pedestrian warrants found in Section 3B.2. Laurence also developed traffic operations evaluation of the traffic study which included traffic signal timing evaluations.

Laurence Lucius Lambert, II resume continued

02/20 – 09/21	**College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA).** Laurence was the project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive. Since the I-10 interchange was included in the study, approval from DOTD was required. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.
10/17-10/18	**H.013025 LA 182 (University Avenue) Corridor Planning Study (Lafayette, LA).** Laurence was the lead transportation engineer for a Corridor Planning Study for LA 182. The scope focused on improving safety and mobility for pedestrian, bicycle, and transit users. Laurence collected AM & PM peak vehicle turning movement counts as well as pedestrian and bicycle counts. Laurence coordinated with the Acadiana Planning Commission to develop growth rates and design year volumes. Laurence then performed Highway Capacity Manual analysis for 5 intersections along the intersection analyses for the signalized and roundabout controlled alternatives. Included in the study was a safety analyses of five intersections and the intermediate segments. Based on the results of the safety analysis, Laurence provided design criteria to the design team for improving safety of pedestrians, bicycles, and vehicles.
02/17-10/17	**Judge Tanner Boulevard at N. Causeway Roundabout Study (St. Tammany Parish, LA).** Laurence performed a Stage 0 Feasibility Study for Roundabouts at 4 intersections in Mandeville area. The scope was developed based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual (TEM) Section 20.2. Laurence, along with Brin, collected 7-day, 24-hour counts w/ Classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Once the traffic data was collected, Laurence performed traffic signal warrants analyses, performed a Sidra unsignalized, signalized, and roundabout analyses for years 2020 and 2040, AM & PM peak hours. Laurence developed a report that captured all the results.
01/17-07/17	**Minnesota Park Road Improvements Traffic Study (Tangipahoa Parish, LA).** Laurence was the task leader for a traffic data collection and intersection analyses of a Stage 0 Feasibility study for Minnesota Park Road in Hammond, LA. Laurence utilized Sidra software to perform a roundabout alternative. The DOTD procedures for utilizing Sidra were followed for this project.
09/16 - 04/17	**H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36).** Corridor Study (St. Tammany Parish, LA). Laurence was the lead traffic engineer for a DOTD traffic study for the new LA 3241 alignment with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. Laurence worked closely with the NORPC and District 62 to develop design year volumes using data the TransCAD model. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management. Laurence, along with Brin, collected 7-day, 24-hour counts w/ classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM traffic simulation model of the preferred alternative.
03/10 - 11/11	**S.P. No. 700-09-0171 Stage 0 and 1 Study I-49 Inner City Connector (Shreveport, LA)**. This 3.5-mile route will connect existing I-49 / I-20 interchange to the proposed I-49 / I-220 interchange. After completing the Stage 0, Laurence was the project manager for the traffic analyses for the EA phase. The total traffic analyses effort included over 30 TransCAD Models, 20 interchanges and 70 intersections. Analyses included signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments at the studied intersections and interchanges. This project included performing both Interchange Modifications Reports (IMRs) and Interchange Justification Reports (IJRs).

13. Short Resumes

Vectura Consulting Services, LLC					
Name	**Kristen Farrington, PE, PTOE, RSP1**			Years of Relevant Experience with this Employer	4
Title	Engineer			Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization			B.S. / 2014 / Civil Engr.		
Active Registration Number/State/Expiration Date			PE.0042785 / LA / 3/31/2027		
Year Registered	2018	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Traffic			

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).
12/23 – current	**H.972501.1 South Range Road Stage 0 (Tangipahoa Parish, LA)** Kristen was the project manager for a Stage 0 project to improve operations on South Range Road. The project included data collection, existing conditions analysis, safety analysis, and alternatives development**.**
05/23 – 05/24	**US 190B/Fremaux Ave Sidewalk Feasibility Study (Slidell, LA)** As a subconsultant to Richard C. Lambert Consultants, LLC, Laurence was the project manager for a sidewalk feasibility study that included data collection, safety analysis, alternative analysis, and final report.
07/23 – 11/23	**H.015504.5 CCC Decorative Lighting Level 4 TMP (New Orleans, LA)** Kristen was the project traffic lead for a Level 4 Traffic Management Plan (TMP) for the Crescent City Connection (CCC). Kristen calculated the lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots". The results were summarized in a report that was reviewed and approved by DOTD.
04/22 – 11/23	**H.013267 Capital Area Pathways Project (Baton Rouge, LA)** Kristen is the lead designer for four pedestrian hybrid beacons (PHB's) with two crossings located on state routes. The locations were approved in a previous study and are now under design for construction. Kristen is working closely with the City and DOTD on the construction plan development as PHB's are a new traffic control device for DOTD. Prior to the design of the PHB's, Kristen prepared a traffic study evaluating all six uncontrolled crosswalks along the path, which included data collection and determining the appropriate treatment for each crossing location based on FHWA, DOTD and MUTCD guidance.
09/17 – 09/18	**H.011160 LA 73 Corridor Study Stage 0 (LA 74 to LA 621) (Ascension Parish).** Kristen was the designer responsible for concept development, report writing, and impact analysis for a Stage 0 study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared.
04/18 – 04/19	**H.011243.1 I-49 at US 190 and LA 31 Interchange Improvements Stage 0 (St. Landry Parish).** Kristen was the project engineer responsible for crash and safety analysis, report writing, planning, and designing for this Stage 0 Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the DOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps.

Kristen Farrington, resume continued

04/19 – 6/21	**H.013817.1 A 117 Improvements Stage 0 (Vernon and Natchitoches Parishes).** Kristen served as project engineer responsible for a Stage 0 study for 18 miles of two-lane highway. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project.
03/19 – 11/19	**H.012311 LA 429 Connector Stage 0 (Ascension Parish, LA).** Kristen was the task leader for the preparation of a Stage 0 study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the Stage 0 Report. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine the best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes, coordinated with interchange study consultants for a cohesive project, and wrote report.
11/18 - 3/21	**H.013322 LA 3040 Feasibility / Safety Study Stage 0 (Houma, LA).** Kristen served as project engineer for a study to identify safety and operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address any deficiencies discovered. Kristen was responsible for compiling a data collection plan for submittal to DOTD, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as unmet demand observations and calculations. Kristen prepared TMC figures, as well as performed existing analysis in Vistro. Compiled all data collected into Appendices A and B per the DOTD Traffic Process and Report and wrote Chapter 1 of report. Kristen represented the project at stakeholder meetings to discuss project status.
04/18 – 04/19	**H.011243.1 I-49 at US 190 and LA 31 Interchange Improvements Stage 0 (St. Landry Parish, LA).** Kristen was the project engineer responsible for crash and safety analysis, report writing, planning, and designing for this Stage 0 Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the LADOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps. Close coordination with traffic engineer ensured maximum improvement of safety and operations given limited right-of-way and utility conflicts along the corridors.
09/17 – 09/18	**H.011160 LA 73 Corridor Study Stage 0 LA 74 to LA 621 (Ascension Parish, LA)** Kristen was the designer responsible for concept development, report writing, and impact analysis for a Stage 0 study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared.
11/16 – 07/17	**H.001271 Cane River Bridge Church Street Route LA 1-X Environmental Assessment.** Kristen was the project engineer responsible for assisting with the site visits, data organization, analysis of permanent alternatives and traffic control alternatives, and traffic report to aid in the delivery of an environmental assessment for the Cane River Bridge Replacement.

13. Short Resumes

Vectura Consulting Services, LLC			
Name	**Reece Rodrigue, PE, PTOE, RSP1**	Years of Relevant Experience with this Employer	5
Title	Engineer	Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization	B.S./2013/Civil Engineer .		
Active Registration Number/State/Expiration Date	PE.0042074 / LA / 3/31/2026		
Year Registered	2017	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities	Traffic		

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).
04/21 - current	**MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA.** Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.
06/23 - Current	**H.012845.1 Connected & Autonomous Vehicles (C/AV) Team and Working Group Support.** Reece is a member of the team to develop new policies and legislation related to C/AV.
06/23 - Current	**H.011507.1 Monroe Phase 3 SEA** Reece visited the project site to document the controller type and detection needs at each signalized intersection within the right-of-way.
07/21 - Current	**H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, Louisiana)** Reece is part of the team responsible for Construction Engineering and Inspection. Reece has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
01/23 – 02/24	**H.011504 Alexandria ITS Phase 2.** Reece was the project engineer for a site visit, System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan.
06/22 – 02/23	**H.012381.5 ITS Fiber Management System Data Collection** Reece performed the field observations for 40 sites to verify the ITS FMS and inventory services.
04/20 - Current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse, LA).** Reece is responsible for designing the temporary traffic signal for the intersection of LA 23 at Engineers Rd. for eight phases of construction per the anticipated sequence of construction. Temporary pole location and heights were recommended for placement for use for all construction phases. Vehicle clearance interval calculations were conducted for each phase in accordance with DOTD and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the Traffic Management Plan that was also used in planning for the permanent and temporary signal timing plans. Reece was also responsible for producing the permanent signal plans for the LA 23 intersections at Engineers Road and at Burmaster Street. He evaluated stop bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the wiring layout, and developed the interconnect plan. In addition, Reece was responsible for reviewing and approving shop drawings that were submitted by the contractor for use in construction.

Reece Rodrigue, Resume Continued

01/21 – 05/21	**H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes)** Reece was a member of the subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being installed. Reece was responsible for measuring anticipated construction quantities and producing a cost estimate for said quantities by using DOTD's Bid Tabulation and Cost Estimating Tool.
09/20 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish)** Reece is an essential design engineer, who is assisting in the production of the temporary signal design associated with the sequence of construction for the roundabout at US 171 at Boone St. He conducted a thorough analysis of the US 171 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
09/20 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish)** Reece is a design engineer, who assisted in the production of the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. He assisted in calculating the temporary pole heights, determining the placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Reece conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
11/21 – 12/21	**Emergency Street Light and Traffic Sign Assessment (New Orleans, LA)** In response to the damage caused by Hurricane Ida, Reece inspected streetlights and street signs to report damage using the City's ArcGIS Online Organization and ArcGIS Field Maps app. The assessment area was approximately 2.5 miles by 2 miles area in the City of New Orleans.
02/20 – 09/21	**College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA)** Reece was the task leader for organizing and formatting the data collection of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts.
07/19 – 12/19	**Burgess Avenue at Duff Road Traffic Signal Design, Walker, LA** Reece was responsible for the design of a fully actuated signalized intersection in the city of Walker, LA. The traffic signal was determined to meet signal warrants upon completion of the Foxglove subdivision in Livingston Parish, LA. Plans included road widening, signal face indication schedule, signal sequence chart, sign schedule, detector schedule, controller timing, wiring diagram, and free operation phasing diagram. Reece met with city officials to discuss the feasibility of constructing a traffic signal as opposed to other alternative measures for improving the intersection.
02/16 - 12/16	**H.005733.5 US 190 Superstreet Task Order (St. Tammany Parish)** Reece was a team member responsible for the layouts for the US 190 Superstreet signal designs. He created the preliminary plans using CAD software program MicroStation V8i. He aided in the technical design of each intersection. He conducted field inspections to verify locations of existing equipment as well as observing the area for feasible proposed utility locations. He attended project team meetings to discuss the project details as well as the plan-in-hand walk-through.
01/16 – 11/17	**Ochsner Main Campus Traffic Signals (Jefferson Parish)** Reece served as a design engineer for the traffic signal plans for the two Ochsner Main Campus access traffic signals with US 90 (Jefferson Hwy). The goal of the design was to implement updated pedestrian timings as well as optimize progression through the US 90 corridor. He reviewed traffic data and assigned time of day coordination timing parameters for the two intersections so that they may be included in the coordinated system west of the intersections. He used TruTraffic to determine the appropriate offset parameters so that vehicles may progress efficiently through the coordinated system. Plans for the two intersections were drafted in the form of DOTD's latest version of the TSI format. He was responsible for estimating construction quantities using DOTD's 2016 Spec Item list.
10/16 – 05/17	**H.011646 Retainer Contract for DOTD District 02 Traffic Signal Inventories - Nola 3** Reece served as the lead engineer for the traffic study for the District 02 Traffic Signal Inventories. The objective was to effectively correct the progression of traffic through the US 90 (Broad St) corridor. He reviewed vehicle crash data at all intersections in the study scope. He conducted travel time runs. He created a model with existing traffic signal timing information using Synchro 8 Software. He recommended traffic signal pedestrian clearance times and yellow and red clearance times for each intersection.

14. Relevant Projects

Firm Name	**Vectura Consulting Services, LLC**		
Project Name	I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study	Past Performance Evaluation Category(ies)*	Traffic
		Firm Responsibility	Sub
Project Number	H.004957.5	Owner's Name	DOTD
Project Location	Lacombe, LA	Owners Project Manager	Joachim C Umeozulu, P.E
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1386, Joachim.Umeozulu@la.gov		
Services Commenced by this Firm (mm/yy)	09/16	Total Consultant Contract Cost ($1,000's)	$1,895
Services Completed by this Firm (mm/yy)	05/17	Cost of Consultant Services Provided by this Firm ($1,000's)	$84

Project Description:

As part of the DOTD TIMED program, Vectura prepared a formal traffic study for the new alignment of LA 3241. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management and complete streets. The study included analyses for intersection (including two interchange ramps) and corridor improvements such as median openings, spacing of openings, signalized, unsignalized and roundabout intersections.

Task 1 Data Collection

Vectura collected the following traffic data for 10 intersections:

- Seven-day (mainlines) and two-day (side streets) 24-hour tube counts with vehicle classification
- Turning movement counts for morning and evening peak periods
- 15-minute driveway counts
- Traffic signal warrants, radar speed studies and sight distance evaluation
- Developed growth rate methodology and AM and PM peak forecast traffic volumes using TransCAD data

Task 2 Traffic Study

This task included a roundabout study as defined in EDSM VI.1.1.5, VI.1.1.1 and DOTD Traffic Engineering Manual Section 20.2. This task included the following elements:

- Performed Vistro and Sidra analyses for existing conditions
- Performed Vistro and Sidra analyses for implementation and design years
- Intersection alternatives included restricted median openings, signalized and unsignalized intersections, median U-turns at existing signal locations, restricted crossing U-turn (RCUT) intersections, and roundabouts
- Developed Vissim model of the preferred corridor layout
- Developed draft traffic study report

Task 3 Safety Analyses

- Developed three-year crash analyses report as per DOTD standards

Team Members Involved:

Brin Ferlito

Bridget Robicheaux

Laurence Lambert

14. Relevant Projects

Firm Name	**Vectura Consulting Services, LLC**				
Project Name	I-20: LA 544 Overpass Replacement	Past Performance Evaluation Category(ies)*		Traffic	
		Firm Responsibility	Sub		
Project Number	H.010616	Owner's Name	DOTD		
Project Location	Baton Rouge, LA	Owners Project Manager	Jacob Fusilier		
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225-379-1185, Jacob.Fusilier@la.gov				
Services Commenced by this Firm (mm/yy)	04/23	Total Consultant Contract Cost ($1,000's)	Unknown		
Services Completed by this Firm (mm/yy)	10/23	Cost of Consultant Services Provided by this Firm ($1,000's)	$131.973		

Project Description:

Vectura performed a Level 2 Traffic Management Plan (TMP) that included the following activities:

- Preliminary and final traffic studies
- Temporary and final traffic signal plans
- Traffic Management Plan (TMP)
  - Safety strategy that included a CAT Scan,
  - LOS determination utilizing Citrix data,
  - Lane closure recommendations based on a queue analysis,
  - Cost estimate,
  - And public information strategies.

Team Members Involved:

Laurence Lambert

Brin Ferlito

Reece Rodrigue

Kristen Farrington

14. Relevant Projects

Firm Name	**Vectura Consulting Services, LLC**		
Project Name	Stage 0 Feasibility Study – US 190/ Fremaux Avenue Sidewalk Study	Past Performance Evaluation Category(ies)*	Traffic
		Firm Responsibility	Sub
Project Number	H.972462.1	Owner's Name	New Orleans Regional Planning Commission
Project Location	Slidell, LA	Owners Project Manager	Nelson Hollings
Owners Address, Phone, Email	10 Veterans Boulevard, New Orleans, LA 70124; 504-483-8523; nhollings@norpc.org		
Services Commenced by this Firm (mm/yy)	12/23	Total Consultant Contract Cost ($1,000's)	$65
Services Completed by this Firm (mm/yy)	07/24	Cost of Consultant Services Provided by this Firm ($1,000's)	$30

Project Description:

Vectura prepared a formal traffic study to determine the feasibility of constructing a sidewalk along US 190 in Slidell, LA. The traffic study examined concepts that improved the safety and efficiency for bicyclists and pedestrians consistent with the latest DOTD policies related to access management and complete streets.

Task 1 Data Collection

Vectura collected the following traffic data for 10 intersections:

- Seven-day (mainlines) and two-day (side streets) 24-hour tube counts with vehicle classification
- Seven-day pedestrian counts
- Turning movement counts for morning and evening peak periods
- 15-minute driveway counts
- Traffic signal warrants, radar speed studies and sight distance evaluation
- Developed growth rate methodology and AM and PM peak forecast traffic volumes using TransCAD data

Task 2 Traffic Study

This task included the following elements:

- Performed Synchro analyses for existing conditions
- Performed Synchro analyses for implementation and design years
- Developed draft traffic study report

Task 3 Safety Analyses

- Developed three-year crash analyses report as per DOTD standards

Team Members Involved:

Kristen Farrington

Gustavo Clavijo

Cade Nelson

Brin Ferlito

Laurence Lambert

14. Relevant Projects

Firm Name	**Vectura Consulting Services, LLC**			
Project Name	US 11 (Front St.) at US 190 Bus. (Fremaux Ave.) Traffic Study	Past Performance Evaluation Category(ies)*		Traffic
		Firm Responsibility	Sub	
Project Number	N/A	Owner's Name	City of Slidell	
Project Location	Slidell, LA	Owners Project Manager	Eric Lundin	
Owners Address, Phone, Email	250 Bouscaren St. Slidell, LA 70458, 985-646-4320, elundin@cityofslidell.org			
Services Commenced by this Firm (mm/yy)	9/17	Total Consultant Contract Cost ($1,000's)		unknown
Services Completed by this Firm (mm/yy)	11/17	Cost of Consultant Services Provided by this Firm ($1,000's)		$38.8

Project Description:

Vectura was hired as a sub-consultant to the prime consultant to perform a traffic study for the City of Slidell as part of improvements to the intersection of US 11 (Front St.) at US 190 Bus. (Fremaux Ave.). The goal of the study was to determine if a pedestrian crossing and pedestrian traffic signal heads were warranted. To conduct the pedestrian study, the following tasks were performed by Vectura:

Data Collection

- AM and PM peak hour turning movement counts for five intersections
- AM / PM peak 15-minute turning movement counts for 10 driveways on Fremaux Ave.
- 24-hour traffic approach volumes, speed data, crash history and sight distance for the intersection of US 190 Bus. (Fremaux Ave.) @ US 11 (Front St).
- Weekday and weekend pedestrian counts for the intersection of US 190 Bus. (Fremaux Ave.) @ US 11 (Front St).

Draft Traffic Study

This task included a Crosswalk Traffic Study for US 190 Bus. (Fremaux Ave.) @ US 11 (Front St.) as Per DTOE, Traffic Engineering Manual (TEM) Section 3B.2.9, Section 20.2 & EDSM VI.3.1.6 Section 6.

This task included the following elements:

- Developed three-year crash analyses
- Performed pedestrian crosswalk warrants as per TEM Section 3B.2.9
- Performed Vistro and HCS analyses for AM and PM Peak existing conditions, Implementation and design year conditions. The analyses included intersection and segment levels of service as well as signal timing and progression for the five intersections.
- Developed traffic study and electronic files. The Study documented how traffic will be routed with the proposed median on Fremaux Ave., the impacts to Front St., and conflict analysis for the crosswalks and pedestrian heads

Team Members Involved:

Bridget Robicheaux

Brin Ferlito

Laurence Lambert

15. Additional Information

Who We Are

Vectura Consulting Services, LLC is a team of transportation professionals led by two principals who spent decades in large civil firms who had a vision to create a niche engineering firm that could stand out as industry experts in the Transportation sector. We have unique expertise in providing transportation engineering services from the early planning stages of a project to the development of design plans and through final implementation in the field. We integrate our design and construction management expertise with our extensive knowledge of planning and operations to provide clients with the ideal combination of creative, yet practical solutions that address the needs of all travel modes. This comprehensive approach to transportation engineering is a benefit to clients looking to make cost-effective decisions and develop biddable projects with minimal questions during construction.

Why Choose Us

Between the two principals of Vectura, we have over 60 years of experience in traffic data collection, intersection / interchange analysis, microsimulation modeling, corridor analysis, roundabout analysis, and traffic signal design. Over the past nine years, the Vectura staff has increased to 12 employees. Collectively, our firm has five professional engineers (PE'S), five certified PTOE's and two Road Safety Professionals (RSP's). Transportation engineering is the backbone of our company.

Vectura owns all the equipment and software needed to collect traffic data, analyze conceptual layouts and develop traffic signal plans. We are a Baton Rouge based firm that invests in the Baton Rouge community. Vectura is a certified East Baton Rouge (EBR) Socially and Economically Disadvantaged Business Enterprise (SEDBE) and Disadvantaged Business Enterprise (DBE) by DOTD and certified Small and Emerging Business Enterprise (SEBD) by Louisiana Economic Development. Any local, state, or federal DBE goals can be satisfied with the selection of our firm.

Firm/Team Qualifications and Experience

As shown in our project qualifications, Vectura has a deep and unique experience of traffic design studies in the Bossier Parish area that is focused on congestion relief projects such as this project. Our team of experienced traffic engineers can get the project started quickly and maintain a quick pace to finish the project.

Key Personnel Qualifications and Experience

Brin and Laurence, as principals of the firm, will be the task leaders for all traffic-related tasks. Kristen, Reece, and Bridget, who are all professional engineers, will provide support on all tasks.

Brin Ferlito, PE, PTOE performed traffic engineering services for DOTD over the past 30 years that included the design of over 200 traffic signals in the state of Louisiana. Her signal design experience includes coordination with the FAA, Railroads, DOTD and the Parish. She also has a deep understanding of pedestrian signalization, crosswalks, and ADA ramps design process. Brin has also developed temporary traffic signal plans for the sequence of construction of numerous roundabouts across the state of Louisiana. As demonstrated in her resume, she possesses the knowledge and skillset to perform all required traffic tasks as specified in the RFQ.

Laurence Lambert, PE, PTOE, PTP performed projects of similar scopes to the advertised project (i.e., design of over 100 traffic signals, innovative intersection design and Complete Street concepts). Laurence is also the past Chair and current member of the East Baton Rouge Parish Complete Street Citizen Advisory Committee, where he reviews projects and policies to ensure that the most current Complete Street national best practices are applied in East Baton Rouge Parish. Laurence performed intersection/corridor studies for some of the most complicated corridors in the state of Louisiana using HCS and VISSIM microsimulation tools.

METHODOLOGY

Traffic Design Services

Data Collection Traffic Engineering Analysis: It is understood that a traffic study has previously been performed by others and that LADOTD will provide that study upon award of contract. Waggoner will utilize the expertise of Vectura Consulting Services to supplement any traffic data and amend any reports necessary to perform the required traffic engineering analyses. All staff have taken the LADOTD Traffic Engineering Process and Report course and understand how to format the study to LADOTD's standards.

Intersection Control Design and Review: It is anticipated that a new traffic signal will be required for the following intersecting roadways with the selected alignment: LA 3 (Benton Rd.), Airline Dr., Swan Lake Rd., and Bellevue Rd. The Vectura staff has developed design studies and construction plans for hundreds of signals for LADOTD. As such their staff is well versed in designing the associated MUTCD compliant signing and striping for traffic signals. Furthermore, Vectura is experienced in providing CE&I for traffic signal construction for LADOTD.

Transportation Management Plan: Vectura will follow EDSM VI.1.1.8 that outlines what is required for a TMP. Vectura will use the information from the existing traffic study provided by BPPJ in addition to any supplemental information independently gathered to perform safety analysis, alternative route analysis, and stakeholder outreach. If historical data is not available, Vectura will follow the Traffic Study Scope of Services as outlined on the LADOTD Traffic Engineering website. Staff from Vectura have worked closely with the staff of LADOTD through the development and implementation of the TEPR process. Along with specifying the correct TTC Details, Vectura will coordinate with the road designers on a Work Zone Impact Management Strategy document to minimize risk and delays to the traveling public.

16. WORKLOAD

State Project Number	Project Name	Remaining Unpaid Balance ($1,000's)
H.005168.2	New Orleans Rail Gateway Avondale EA	57.644
H.007160	EBR Computerized Traffic Signal, Ph VB	28.737
H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	11.202
H.012030.5	KCS RR Overpasses HBI	0.572
H.013522	S. Lewis Street Widening	7.499
H.01564.5	LA 47 Hayne Blvd Safety Improvements	9.437
H.014746.5	LA 383 Stage 0 Corridor Study	20.146
H.014511.1	Houma Regional ITS Architecture Update	10.746
H.013421.5	Dist. 02H Flashing Yellow Arrow Part 2	214.810
H.013421.5	East Street & Parkview Drive Sidewalks	0.641
	Total	361.434

WAGGONER

We do more than plan and design infrastructure.
We transform communities.