WAGGONER
PREVIOUSLY SIGMA CONSULTING GROUP

Statement of Qualifications
Louisiana Department of Transportation & Development

LA 3211: Widening Yokley Road to LA 182

Contract No. 4400032190
State Project No. H.016051.5
Federal Aid Project No. H016051

June 24, 2025

Submitted by:
Waggoner Engineering, Inc.

waggonereng.com

June 24, 2025

Louisiana Department of Transportation and Development
1201 Capital Access Road
Baton Rouge, LA 70802

WAGGONER
PREVIOUSLY SIGMA CONSULTING GROUP

RE: Contract No. 4400032190, State Project No. H.016051.5, Federal Aid Project No. H016051
LA 3211: Widening Yokley Road to LA 182, Route LA 3211, St. Mary Parish

Dear Members of the Selection Committee:

Waggoner Engineering, Inc. (Waggoner) is excited for the opportunity to work with the Louisiana Department of Transportation and Development (LADOTD) on the LA 3211: Widening Yokley Road to LA 182 project. Our team is fully prepared to bring our expertise and proven project delivery track record to support the infrastructure needs of LADOTD's State Highway 3211 widening design project.

FIRM EXPERIENCE & PAST PERFORMANCE: Waggoner, a leader in water resources engineering in the Gulf Coast region, expanded its footprint and technical practice expertise by joining forces with Sigma Consulting Group, Inc. (Sigma) in November 2022. Sigma's 35 years of transportation engineering expertise with the LADOTD now serves as Waggoner's transportation division headquarters. **While Legacy Sigma now operates under the Waggoner name, the day-to-day management and operational structure remain unchanged.** The former owners and managing partners of Sigma are active leaders in Waggoner's management and operations, **ensuring that the firm experience and exemplary past performance provided by Sigma over our 30 plus years of service to the LADOTD remains intact** while offering the broader resources and capabilities of Waggoner.

LADOTD ROAD DESIGN EXPERIENCE: Waggoner (formerly Sigma) has an extensive tract record of successfully delivering projects to LADOTD's Road Design section. We have held various contracts which included widening design and fully understand the technical and management requirements necessary to meet your needs. Our project manager, Alex Farr, PE has 13 years of experience in road design on LADOTD projects. Our staff experience is founded on LADOTD project delivery processes and will be committed to this contract.

Furthermore, we have strategically partnered with Vectura Consulting Services, LLC (Vectura) to provide the necessary traffic engineering services. The collaborative history between Waggoner and Vectura on multiple successful LADOTD projects underscores our team's seamless integration and effectiveness.

PROJECT UNDERSTANDING: Waggoner understands that the LA 3211 Widening Yokley Road to LA 182 project will accommodate present and future traffic in St. Mary Parish by converting the existing two-lane undivided roadway to a four-lane divided roadway with a raised median. The existing two-way section of LA 3211 will serve as the two northbound lanes. A raised median and two additional southbound lanes will be added to the west of the existing roadway. The existing 200-ft right-of-way should be more than adequate to accommodate construction. The existing at-grade BNSF railroad crossing (Crossing No. 763041L) will require preconstruction permits for surveying and design coordination for the crossing. We also understand that there is a roundabout project currently in design at the LA 3211 and Yokley Road intersection, which will require careful coordination to ensure seamless integration with the widening efforts. Additionally, we are cognizant of a planned mill and overlay project for this roadway segment and will thoughtfully integrate this knowledge into our design to maximize efficiency and minimize future disruptions.

APPROACH AND METHODOLOGY: Our approach and methodology (Section 18) is grounded in a deep understanding of LADOTD roadway design requirements, paired with innovative methodologies that ensure each project meets the highest standards of safety, efficiency, and sustainability. We plan to leverage our past experience in LADOTD project delivery, effective communication, rigorous QA/QC process, and commitment to partnership with LADOTD to fulfill your needs and expectations for this project.

Thank you for considering Waggoner for this opportunity. We are committed to delivering complete that benefits the residents and those traveling through St. Mary Parish. If you require any additional information or have questions, please do not hesitate to contact me at 225.298.0800 or via email at robert.lear@waggonereng.com

Sincerely,

Robert Lear, PE, LSI
Vice President, Senior Project Manager
Waggoner Engineering, Inc.

Sections 1-11

Hooper Road Widening (LA 3034 - LA 37) | East Baton Rouge Parish | H.009300

Waggoner Engineering, Inc. - Lead Design Firm

Past Performance Disciplines: Road, Traffic, Other (Project Management)

"Waggoner's performance throughout the early stages of this project has been excellent. In addition to the deliverables, they were extremely helpful during the CMAR procurement process and supplied LADOTD with various drawings, presentations, etc. to use during our meetings with the potential CMAR contractors. They were also very cooperative and understanding when the project was changed from CMAR to design-bid-build and they worked with LADOTD on refining the scope, estimates, and schedule."

- Kurt Brauner, PE - LADOTD Project Manager

LADOTD FORM: 24-102

(Revised December 12, 2024)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	LA 3211: Widening Yokley Road to LA 182
2. Contract Number(s) as shown in advertisement	CONTRACT NO. 4400032190 FEDERAL AID PROJECT NO. H016051
3. State Project Number(s), if shown in the advertisement	STATE PROJECT NO. H.016051.5
4. Prime Consultant Name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20)	WAGGONER PREVIOUSLY SIGMA CONSULTING GROUP **Waggoner Engineering, Inc.** (formerly Sigma Consulting Group, Inc.)
5. Prime Consultant License Number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	**EF.0002553** **VF.0000457**
6. Prime Consultant Mailing Address	10305 Airline Highway Baton Rouge, LA 70816
7. Prime Consultant Physical Address (existing or to be established, if location is used as an evaluation criteria)	10305 Airline Highway Baton Rouge, LA 70816
8. Name, Title, Phone Number, and Email Address of Prime Consultant's Contract Point of Contact	**Robert Lear, Jr., PE, LSI** Vice President, Sr. Project Manager robert.lear@waggonereng.com 225.298.0800
9. Name, Title, Phone Number, and Email Address of the Official with Signing Authority for this Proposal	**Robert Lear, Jr., PE, LSI** Vice President, Sr. Project Manager robert.lear@waggonereng.com 225.298.0800

10. 10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. LADOTD 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.**	Robert Lear, Jr., PE, LSI Vice President, Senior Project Manager Signature above shall be the same person listed in Section 9 Date: June 24, 2025

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.	Firm(s)	Firm Percent
	Vectura Consulting Services, LLC	4%
	Total DBE Participation	4%

SIGMA CONSULTING GROUP, INC.

WAGGONER

SIGMA IS NOW WAGGONER... GREATER CAPACITY TO TRANSFORM COMMUNITIES

Sections 12-15

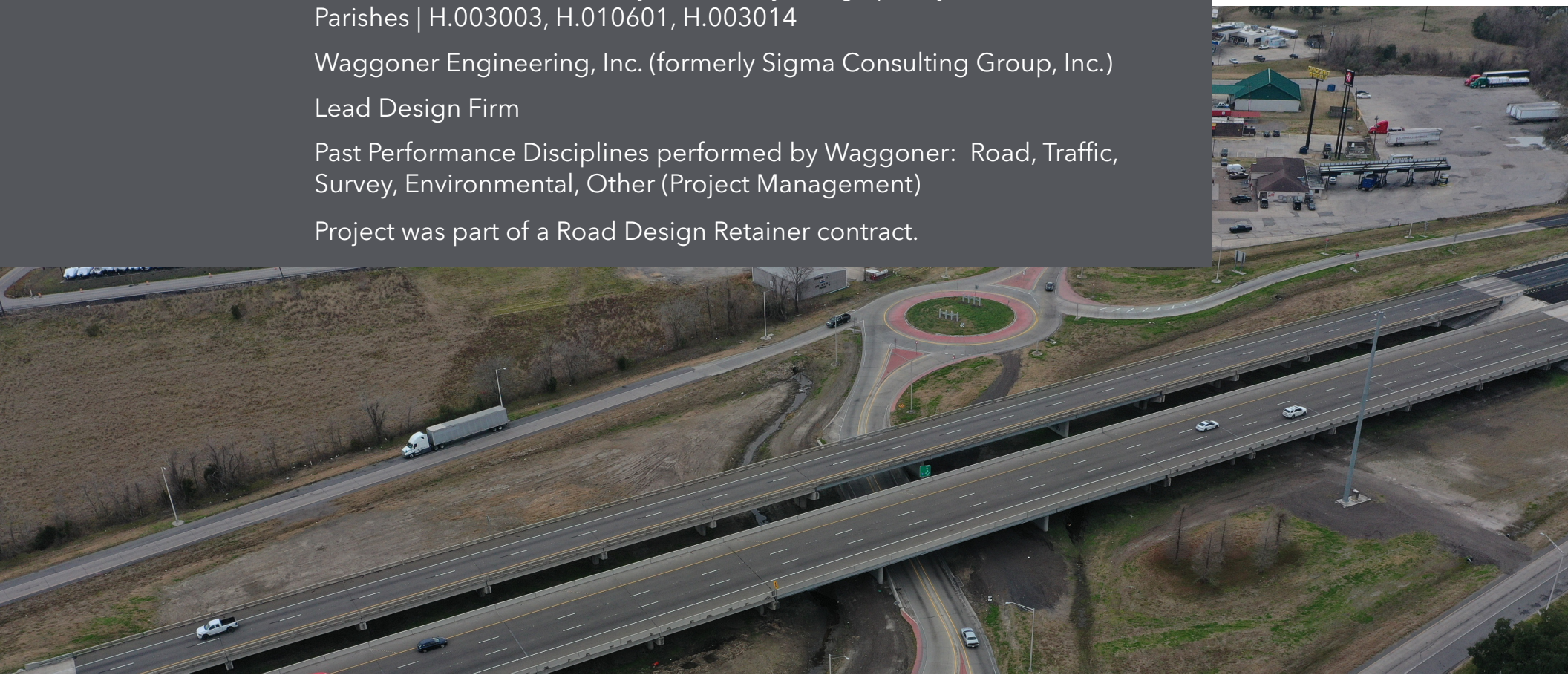
I-10: E. Jct. I-49 to Atchafalaya Floodway Bridge | Lafayette & St. Martin Parishes | H.003003, H.010601, H.003014

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

Lead Design Firm

Past Performance Disciplines performed by Waggoner: Road, Traffic, Survey, Environmental, Other (Project Management)

Project was part of a Road Design Retainer contract.



12. PAST PERFORMANCE EVALUATION DISCIPLINE TABLE:

Discipline(s)	% of Overall Contract	Waggoner (formerly Sigma)	Vectura (DBE)	Each Discipline must total to 100%
Road	74%	100%	-	100%
Traffic	4%	-	100%	100%
Survey	20%	100%	-	100%
Other (Project Management)	2%	100%	-	-
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.				
Percent of Contract	**100%**	**96%**	**4%**	**100%**

13. FIRM SIZE:

Firm Name	LADOTD Job Classification	Number of Personnel Committed to this Contract	Total Number of Personnel Available in this LADOTD Job Classification (if needed)
WAGGONER FORMERLY SIGMA CONSULTING GROUP	Principal	1	2
	Professional	0	2
	Supervisor - Engineer	2	5
	Engineer	4	9
	Engineer Intern	2	5
	Engineer - Other	0	1
	Environmental Manager	0	1
	CADD Technician	2	3
	Supervisor - Other	0	1
	Senior Technician	2	6
	Technician	0	1
	GIS Analyst	0	2
	Instrument Man	1	1
	Surveyor	1	2
	Party Chief	2	2
	Clerical	0	3
VECTURA CONSULTING SERVICES, LLC	Supervisor - Engineer	2	2
	Engineer	2	3
	Engineer Intern	1	3
	Senior Technician	0	2
	Technician	1	1
	Supervisor - Other	1	1
	Clerical	1	1

14. ORGANIZATIONAL CHART:

KEY
Waggoner (formerly Sigma)
Vectura
(#) Meets MPR Criteria
✪ Meets Work Zone Training Requirements
▶ Meets Traffic Engineering Process & Report Training Requirements
DISCIPLINE LEAD (CAPS & BOLD)

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

WAGGONER
PREVIOUSLY SIGMA CONSULTING GROUP

PRINCIPAL-IN-CHARGE
Miles Williams, PE (1, 2)

QA/QC
Robert Lear, Jr., PE, LSI (3) ✪

PROJECT MANAGER
Alex Farr, PE ✪▶

HYDRAULIC DESIGN
BRYAN HARMON, PE
Gage Spell, LSI

ROADWAY DESIGN & CONSTRUCTION SUPPORT
ALEX FARR, PE ✪▶
Robert Lear, Jr. PE, LSI (3) ✪
Kelsie Bankston, PE
Charlotte Gremilion, PE

TOPOGRAPHIC SURVEYING
JACE RICARD, PLS (4) ✪
Robert Lear, Jr.,PE, LSI (3) ✪

UTILITY COORDINATION
JOSHUA RENARD, PE ✪

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

15. MINIMUM PERSONNEL REQUIREMENTS:

MPR # Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License/ certification expiration date
1	Miles Williams, PE	Waggoner	PE#23094 - Civil	LA	3/31/2026
2	Miles Williams, PE	Waggoner	PE#23094 - Civil	LA	3/31/2026
3	Robert Lear, Jr. PE, LSI	Waggoner	PE#29394 - Civil	LA	3/31/2027
4	Jace Ricard, PLS	Waggoner	PLS#5205	LA	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 16

LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane), East Baton Rouge | H.010652

Waggoner - Lead Road Design Firm

Past Performance Disciplines performed by Waggoner: Road, Traffic, Other (Project Management)

Project was part of a Road Design Retainer contract.

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, 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		Project Manager, Discipline Lead - Roadway Design & Construction Support		

Alex will serve as Project Manager and will be responsible for the day-to-day management of the LA 3211: Widening Yokley Road to LA 182, **ensuring that the contract is executed according to scope, schedule, and budget.** He will oversee the preparation of **preliminary and final plans,** coordinating with the Vectura team to ensure all designs comply with **LADOTD guidelines** and incorporate all necessary **constructability reviews.** With over 13 years of design and management experience, Alex will **ensure this project meets LADOTD's goals and is 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).
10/20 - Ongoing SECTION 17 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East 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.
08/18 – 10/22 SECTION 17 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.**
03/13 – 07/22 SECTION 17 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.**
03/13 – 07/22 SECTION 17 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.**

Alex Farr resume continued

10/16 – 12/20	**I-10: Highland to LA 73 Design-Build Project, East Baton Rouge and Ascension Parish, LA** **Project Engineer.** Alex was responsible for performing the **Traffic Management Plan (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	**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 LADOTD) 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 is serving as the Project Manager for this project, **designing the roadway geometrics, typical sections, geometric details, cross sections, MOT, quantities, and construction cost estimates.**
12/14 - 04/19	**Acadian Thruway Safety Improvements (H.011261), East Baton Rouge, LA** **Project Engineer.** Alex computed **project quantities, sequence of construction, and the striping plan** for this mill and overlay project. Alex was also responsible for **utility location** along this segment. He designed **geometric alternates** for the intersection at Claycut Road.
07/19 - 12/22	**MOVEBR Infrastructure Enhancement & Traffic Mitigation Project, East Baton Rouge Parish, LA** **Project Engineer.** Waggoner was part of the program management team for East Baton Rouge Parish's $1.0 billion MOVEBR Infrastructure Enhancement and Traffic Mitigation Program. Alex provided **engineering design** for projects included in the comprehensive initiative to improve roadways, intersections, and corridors throughout the parish. The MOVEBR program projects focused on **capacity increases, safety enhancements, and mobility improvements.** Waggoner's responsibilities include developing program design guidelines, managing design consultants, utility coordination, land management, and overseeing multiple corridor and enhancement projects. The program incorporates Complete Street elements, Americans with Disabilities Act (ADA) compliance features, and green infrastructure. Waggoner is involved in all phases from **planning through construction, including public outreach, stakeholder engagement, and construction management.**
04/21 - Ongoing	**Rural Bridge Replacement Initiative Phase II (South), LA (440001338), Various Locations, LA** **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.**
05/24 - 2018	**Scotlandville Parkway to Downtown Baton Rouge Bike Trail (H.013267), East Baton Rouge Parish, LA** **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.**

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Miles Williams, PE**			Years of Relevant Experience with this Employer	35
Title	Senior Vice President/Transportation Market Section Lead			Years of Relevant Experience with Other(s) Employers	8
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 | **Meets MPR 1& 2**		

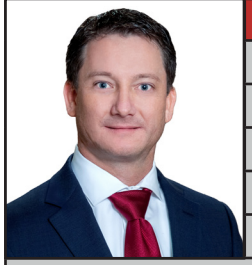
Miles will oversee the project, ensuring that all services are performed in compliance with the contract. He will provide high-level direction and decision-making, ensuring the team adheres to the **LADOTD Location and Survey Manual** and other relevant standards. Miles will also be responsible for final approval of all deliverables and coordination with the LADOTD's Chief Engineer to **ensure quality and conformity with LADOTD'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).
10/12 - Ongoing SECTION 17 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 boulevard** with complete streets accommodations. This project included both **pavement preservation and capacity functional classifications.**
05/20 - Ongoing SECTION 17 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.
03/13 – 07/22 SECTION 17 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 also played a supportive role in **construction support** as well. This project included both pavement preservation and capacity functional classifications.
01/13 - Ongoing SECTION 17 PROJECT	**I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)** **Road Design Engineer.** Miles is the r**oad 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.

Miles Williams resume continued

04/02 – 04/12	**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.**
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.
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.**
04/18 - Ongoing	**Belle Chasse Bridge and Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parishes, 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.**

16. STAFF EXPERIENCE:



Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Robert J. Lear, Jr., PE, LSI**			Years of Relevant Experience with this Employer	26
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 | **Meets MPR 3** | Roadway Design & Construction Support, Topographic Surveying			

Robert will serve as the contract QA/QC Manager. He brings extensive knowledge in **roadway design** and construction projects including **developing design reports, technical reviews, and plan development**, along with experience in plan preparation using **Microstation and Inroads.** For this project, Robert will develop and implement quality assurance and quality control plans, conduct regular inspections and audits, and ensure that all project activities adhere to specified standards to guarantee the highest level of quality in project deliverables. With over 25 years of LADOTD project design and management experience, Robert will **ensure projects meet LADOTD's goals and are completed on time and within budget.**

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/12 - Ongoing SECTION 17 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 boulevard** 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 17 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, specifications, 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.
01/13 - Ongoing SECTION 17 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.
05/20 - Ongoing SECTION 17 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, **LADOTD**, and the CMAR contractor.

Robert Lear resume continued

08/18 – 10/22	**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.
04/02 – 04/12	**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.
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.

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, 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	34
Degree(s)/Years/Specialization		BS/1982/Civil Engineering BS/1981/Agricultural Engineering		
Active Registration Number/State/Expiration Date		PE#22595/LA/3-31-2031		
Year Registered	1987	Discipline	Civil, Environmental	
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Hydraulic Design		

For this contract, Bryan will lead the **hydraulic engineering services** ensuring alignment with engineering standards and regulatory requirements. His responsibilities will include providing **hydraulic analysis and design, developing type, size, and location parameters for drainage structures,** and establishing project design criteria. Additionally, Bryan will supervise the planning and implementation of **hydraulics and drainage systems,** ensuring compliance with engineering standards and environmental regulations.

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 17 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)** **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.
08/18 – 10/22 SECTION 17 PROJECT	**I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)** **Supervising Design Engineer.** 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 **LADOTD 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.
05/20 - Ongoing SECTION 17 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)** **Supervising Drainage Engineer.** Bryan is serving as Waggoner's supervising drainage engineer for this major interstate improvement project from just east of the Mississippi River bridge crossing to just west of College Drive. Bryan 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.

Bryan Harmon resume continued

2016 - Ongoing SECTION 17 PROJECT	**Hooper Road (LA 408), East Baton Rouge Parish, LA (H.002316/CP#12-CS-HC-0017)** **Hydraulic Design QA/QC.** The project consists of improving Hooper Road in Central, LA from Blackwater Road to Sullivan Road. Bryan performed all QA/QC and hydraulic design oversight for the project including existing and proposed **drainage computations, existing drainage areas, pre and post development stormwater parameters, HEC-RAS models** of the five existing major cross drains to evaluate existing and proposed conditions, design of reinforced box culverts for cross drains, open ditches and/or drainage structures and piped systems for storm drainage collection. He was the plan checker for the drainage plan and profile, existing and proposed drainage, and the summary of drainage structure sheets. The design computations were performed using **HYDRWIN, Global Mapper, HEC-RAS, Excel, and Civil3D.**
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.**
10/20 - Ongoing	**I-10 and I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), E. Baton Rouge Parish, LA (H.013897)** **Road Design and Drainage Design Reviewer.** Bryan is serving as both a road design and drainage design reviewer, providing support services to LADOTD 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. Bryan's responsibilities include participation in the progress reviews of each Design Unit and Ready for Construction (RFC) Plan submittals. These reviews include **roadway plans, construction sequencing, primary drainage systems, open channel design,** with consideration being given to **LADOTD Design Guidelines, Hydraulics Manual, Standard Details and Specifications,** and to potential impacts to the Wards Creek drainage basin and adjoining infrastructure developments. Having served as the Drainage Engineer, Chief Engineer, and ultimately the Director of Public works for the East Baton Rouge City-Parish, Bryan brings significant institutional knowledge of the local drainage and roadway systems within the parish and how they may react to this Project modification. He clearly understands the concerns that may be expressed by the local community and the need for proper public-private communication and partnership on a project of this magnitude.
10/20 - Ongoing	**Rural Bridge Replacement Initiative Phase II (South), LA (440001338)** **Supervising Hydraulic Design Engineer.** Bryan is serving as Waggoner's 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 LADOTD Hydraulics manual and design directives.**
08/21 – 05/23	**LA 73: US 61 (Airline Hwy.) – LA 426 (Essen Lane), E. Baton Rouge Parish, LA (H.010652)** **Project Manager.** Bryan was the project manager for the development of **preliminary and final plans** to fully reconstruct existing LA 73, including complete pavement and base removal and replacement, curbs and gutters and sidewalks from Airline Highway to the I-12 on-ramp near Drusilla Lane, and for concrete pavement patching and repair of damaged curbs and sidewalks from the I-12 on-ramp to Essen Lane. This plan development consists of **all engineering services including a summary of estimated of quantities and cost.**

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Kelsie Bankston, PE**			Years of Relevant Experience with this Employer	4
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	3.5
Degree(s)/Years/Specialization			BS/2018/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#47126/LA/03-31-2031		
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Roadway Design & Construction Support			

For this project, Kelsie will serve on the roadway design and construction support team, creating layouts and plans in adherence to **LADOTD's required engineering standards** and provide construction phase support. She will consider **traffic flow, terrain, and environmental impacts** to optimize designs and minimize risk. 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 LADOTD guidelines. She has over seven (7) years of experience with a focus on **roadway, drainage and structural engineering.** 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).
2021 – 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 17 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 s**ubsurface 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.
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.**

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Charlotte Gremillion, PE**			Years of Relevant Experience with this Employer	5
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 & Construction Support			

Charlotte will be part of the roadway design and construction support team. She will be responsible for **developing roadway design criteria, performing geometric design,** and ensuring all plans adhere to engineering standards and regulator requirements. 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 that meet LADOTD standards.**

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).
05/20 - Ongoing SECTION 17 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.
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.
09/22 - 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 r**oadway 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.
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.

Charlotte Gremillion resume continued

02/24 - Ongoing	**Enterprise Boulevard Extension, Lake Charles, LA** **Roadway Manager.** Charlotte's role in this project includes roadway geometry, design reports, technical calculations, and plan preparation. She was responsible for **designing all typical sections** for the two new roundabouts and evaluated the design constraints in the area to determine the optimal locations for the roundabouts and their connecting roadways. Charlotte ensured a seamless connection between the existing conditions and the new designs to maintain unrestricted access. Additionally, she coordinated with subconsultants in the areas of survey, traffic, and geotechnical work. The project involves **replacing two intersections and transforming a two-lane urban arterial into a four-lane boulevard** with roundabouts.
08/23 - 11/24	**Gadsden Lakewood Drive Improvements, Gassden, AL** **Project Engineer.** Charlotte was responsible for **designing the drainage system** for a roadway project in the City of Gadsden. The work involved conducting **site assessments, evaluating hydrological conditions, and creating a drainage plan** to manage stormwater, prevent flooding, and protect infrastructure. Using software like **Civil 3D** and **Openroads,** the stormwater drains and culverts were designed to ensuring compliance with local regulations.
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.

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
Name	**Joshua 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		Discipline Lead - Utility Coordination		

Joshua will provide utility coordination and develop utility conflict matrices. He will be responsible for **identifying and documenting all utilities,** ensuring **accurate location and mapping** within the project limits. His work will be crucial in coordinating with utility companies and integrating utility adjustments into the preliminary and final design plans, **adhering to LADOTD standards.** With over 19 years of experience, he will ensure effective management of utility related aspects of the project, minimizing risks and maintaining project timelines. Joshua has extensive knowledge in **HEC-RAS, HYDRWIN,** and **PondPack** software packages.

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 17 PROJECT	**LA 408: Hooper Road (Blackwater Bayou to Joor Road) East Baton Rouge Parish, LA (H.002316/CP#12-CS-HC-0017)** **Project Manager.** Joshua was the project manager for the **four-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.**
05/20 - Ongoing SECTION 17 PROJECT	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)** **SUE Project Engineer.** Joshua designed the **utility duct bank 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.
10/16 – 12/20	**I-10: Highland to LA 73 Design-Build Project, East Baton Rouge and Ascension Parishes, LA (H.009250)** **Utility Coordinator.** 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.
02/24 - Ongoing	**Saline Bayou Relief & Mill Cr. Brs. Water Lines Locate & Design - SUE – Utility Coordination, QL-A through D Locates, and Relocation Plans, Winn Parish, LA** **Project Manager.** Waggoner is locating existing water lines and preparing relocation plans for 3 bridge sites on LA 126 over Saline Bayou, Mill Creek and Cypress Creek in Winn Parish, LA. Josh obtained as-builts, and **performed QL-B and QL-A SUE services** at each site. He is the engineer of record for the utility relocation plans.
2019 - Ongoing	**MOVEBR Program Management, East Baton Rouge Parish, LA** **Lead Utility Coordinator.** Joshua serves as the main point of contact for all utility companies on 50+ Enhancement Projects on the MOVEBR transportation, road, and traffic program. He is leading the effort **to create the Utility Coordination Process and Design Guidelines for Designers- Utility Section.** He will serve in this role during both the design and construction phase for the program. He will also utilize SUE services where appropriate to gain pertinent location information for design efforts. He will also work to ensure that relocations are successful and will resolve utility conflicts encountered during construction.

Joshua Renard resume continued

2017 - 2018	**LA 675 and LA 87 Improvements – SUE Services, New Iberia, LA (H.011781)** **Project Manager.** Joshua served as the project manager for this **LADOTD project**, which included **Level A through D underground utility location** work as well as video inspection of sewer mainlines and laterals along a one-mile section of Hopkins Street in New Iberia, LA. Under his guidance, Waggoner (formerly Sigma) located utilities through Quality Level A-D. His responsibilities included **coordination with utility companies** and local government representatives to obtain as-built drawings, meeting with LADOTD representatives, design engineers, surveyors, and subcontractors to coordinate the location work, providing valuable utility location information to the design team.
2018 - 2019	**Subsurface Utility Engineering Causeway Boulevard at Earhart, Jefferson Parish, LA** Joshua managed this utility location project for LADOTD. The primary goal of this project was to locate sewer, water, and fiber lines to provide LADOTD's design team with sufficient information to adjust their design to miss the utilities or have the utilities relocated. Waggoner (formerly Sigma) located utilities through all Quality Levels. He coordinated with utility owners and Waggoner's locating crew to **identify, locate, and mark the utilities,** as well as coordinated with Waggoner's survey team to have the lines surveyed. Based on the location crew's fieldwork he helped develop a final plan set as well as a Utility Owner Contact List and a Utility Conflict Matrix for delivery to LADOTD.
2015 - 2017	**Jones Creek Road (Coursey to Tiger Bend), East Baton Rouge Parish, LA** Joshua worked directly for the City of Baton Rouge resolving **construction and utility related issues** in a timely manner during the construction phase of this project. This included gravity and force main sewer installation, roadway drainage installation, concrete pours, traffic lane switching, and signage. He served as the main point of contact for all **utility coordination efforts** and successfully managed this charge through the completion of the project.
2019	**Subsurface Utility Engineering I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA (H.003370)** Joshua 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.** Joshua then led the SUE team in obtaining **Level A location** information for these utilities.
2019	**Subsurface Utility Engineering Leesville Roundabout, Vernon Parish, LA (H.011909)** **Project Manager.** Joshua served as the project manager for this LADOTD project, which included **Level A through D underground utility location** at the intersection of Boone Street and US 171 in Leesville, LA. His responsibilities included coordination with utility companies and local government representatives to obtain as-built drawings, meeting with LADOTD representatives, design engineers, surveyors, and subcontractors to coordinate the location work, providing valuable utility location information to the design team. He was also responsible for **traffic control plan development, Level A field investigations, SUE plan development, and utility conflict matrix preparation.**

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, 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/03-31-2027		
Year Registered	2018	Discipline	Surveying		
Contract Role(s)/Brief Description of Responsibilities		Hydraulic Design			

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 LADOTD 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).
01/23 - Ongoing	**Hooper Road Widening (LA 3034 - LA 37), East Baton Rouge Parish, LA** **Sr. Project Designer.** Gage is providing **hydrological and hydraulic design** for roadway improvements to Hooper Road from Sullivan Road to Greenwell Springs Road. The proposed drainage improvements will include a combination of subsurface and open channel features, as well as **major cross drain** improvements.
04/21 - 08/23	**MOVEBR, Sherwood Forest Extension, Baton Rouge, LA** **Modeler.** Gage served as the modeler for this project, which involved the extension of Sherwood Forest Boulevard from Greenwell Springs Road to Joor Rd. He created a **two-dimensional (2D) hydraulic model** to analyze the impacts of **proposed roadway alignments and profiles** in the Hurricane Creek and Comite River watersheds, ensuring compliance with all MOVEBR design guidelines.
02/23 - 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.
03/25 - Ongoing	**LA 933 at Joe Sevario Road Roundabout, Ascension Parish, LA** **Senior Project Designer.** Waggoner's Baton Rouge Airline team is delivering engineering services for the LA 933 at Joe Sevario Road Roundabout project in Ascension Parish. The team is preparing **preliminary and final design plans, right-of-way maps, and roadway lighting specifications to support construction** of the new roundabout. This work **improves traffic flow and enhances safety** at a key intersection in the parish.

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Jace Ricard, PLS**			Years of Relevant Experience with this Employer	2
Title	Land Surveyor			Years of Relevant Experience with Other(s) Employers	10
Degree(s)/Years/Specialization			BS/2014/Geomatics		
Active Registration Number/State/Expiration Date			PLS#5205/LA/09-30-2025		
Year Registered	2019	Discipline	Surveying		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Topographic Surveying | **Meets MPR 4**		

Jace will serve as the Discipline Lead for Topographic Surveying, he will **conduct field measurements, stationing project centerlines, and gather data** on drainage structures and roadway cross-sections. Jace will support the preparation of right-of-way maps and ensure all data collected **meets LADOTD's quality standards**. Additionally, he will collaborate with the design team to integrate survey findings into the project plans. Jace joined Waggoner in 2023 as Survey Department Manager, bringing over 10 years of diverse surveying experience with Louisiana firms.

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/12 - Ongoing SECTION 17 PROJECT	**Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA** **Land Surveyor.** Jace served as the land surveyor of record for the property survey and right-of-way maps for this MOVEBR project, which included **widening** Hooper Road between Blackwater Road and Joor Road **from an existing two-lane roadway to a four-lane boulevard** with sidewalks. A total of 86 parcels were included in the right-of-way maps. Jace was responsible for performing the property survey and preparation of the property map, acquisition right-of-way maps, and recordation right-of-way maps in accordance with LADOTD standards. This project included both pavement preservation and capacity functional classifications.
06/23 - Ongoing	**Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA** **Land Surveyor.** Jace is the land surveyor of record for **topographic survey** updates and **right-of-way ma**p revisions for this MOVEBR project, which includes extending Jones Creek Road on a new alignment from Tiger Bend Road to Airline Highway. Jace prepared recordation and acquisition set right-of-way map revisions.
02/24 - Ongoing	**BREC Scotlandville Parkway Bridge Replacements, East Baton Rouge Parish, LA** **Surveyor.** Jace is the surveyor of record for this project, which includes **performing topographic surveys** at five sites along the Scotlandville Parkway. These surveys serve as the basis for designing new pedestrian and small vehicle bridges and channel protections along the parkway.
06/23 - Ongoing	**Carrol Avenue over Middle Colyell Creek, Livingston Parish, LA** **Surveyor.** Jace is the surveyor of record for the topographic and property surveys and right-of-way maps for this LADOTD bridge replacement project. He was responsible for establishing local horizontal and vertical control, **collecting all roadway, bridge, drainage, utility, and miscellaneous features topography,** generating a survey map and digital terrain model, and establishing the existing centerline. He is also responsible for preparing the existing property map and proposed right-of-way maps.
02/24 - Ongoing	**Ardenwood-Lobdell Connector, East Baton Rouge Parish, LA** **Surveyor.** Jace is the surveyor of record for the property survey and right-of-way maps for this MOVEBR project. He is responsible for recovering **existing property corners**, establishing **existing property locations,** and **preparing the right-of-way acquisition** and recordation maps. All work is being performed in accordance with MOVEBR guidelines.

16. STAFF EXPERIENCE:

Firm Employed By: Vectura Consulting Services, LLC					
Name	**Sheelagh Brin Ferlito, PE, PTOE**			Years of Relevant Experience with this Employer	9
Title	Supervisor-Eng			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		
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Traffic Engineering			

As the traffic engineering lead, Brin will oversee all aspects of the **traffic engineering components** of the project. She will be responsible for conducting **traffic analyses**, including evaluating current traffic flow, identifying potential issues, and recommending improvements. Brin will coordinate with the design team to integrate traffic management solutions, ensuring safety and efficiency are prioritized in all phases of the project. She will also oversee the preparation of **traffic control plans, ensure compliance with LADOTD standards,** and provide leadership and guidance to the traffic team throughout the 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).
07/21 - Ongoing	**EBR Computerized Traffic Signal, Phase VB, Baton Rouge, LA (H.007160)** **Task Leader.** 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 LADOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
07/19 – Ongoing	**MOVEBR New Capacity Projects Program Management, Baton Rouge, LA** Brin is the lead traffic engineer for entire the 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 LADOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects.
07/19 – Ongoing	**LADOTD Belle Chasse Bridge & Tunnel Replacement PPP, Belle Chasse, LA (H.004791)** **Project Manager.** 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 volume**s that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by LADOTD.
09/20 – 12/21	**LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA (H.010960.5)** **Project Manager.** 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 multi-lane 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 LADOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on LADOTD 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, LADOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the LADOTD Permit Request for Intersection Control Devices on a State Right of Way.

Sheelagh Brin Ferlito resume continued

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 **LADOTD requirements.** Brin assisted with **vehicle and pedestrian data collection, spot speed study, analyzed 3-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.
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 8 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	**Signal Design for N. Sherwood Forest Dr. Widening Project, Baton Rouge, LA (H.002301)** **Project Engineer.** Brin was in responsible charge for data collection and design for three signalized intersections as part of a road widening project as per EBR DPW and LADOTD 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	**CE&I for EBR Traffic Signal Systems Jefferson Highway Construction, Baton Rouge, LA (EBR 03-TS-CI-0026)** 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 LADOTD 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	**CE&I for EBR Traffic Signal Systems Phase IV Construction, Baton Rouge, LA (SPN 013-05-0043)** Brin was the Project Resident Engineer for LADOTD 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 LADOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with LADOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in LADOTD Site Manager and in EBR required formats as well as all items on the LADOTD Project Closeout Checklist including the 2059 Report.
09/13 – 04/14	**Jefferson Hwy. Signal Design, Baton Rouge, LA (S.P. 700-99-0477)** Brin 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.
03/05 – 11/05	**Airline Hwy Widening, Baton Rouge, LA (SPN 700-99-0332)** Brin designed 8 traffic signals as part of the Airline Hwy. **widening** project in Baton Rouge. Her design included **traffic data collection, traffic signal equipment, signal synchronization timing, fiber communication, storage length calculations based on queues analyses, special provision specifications, quantities, and cost estimate.** This project included fiber design to be the first Baton Rouge project to connect video surveillance images and traffic controller information to the ATM / EOC.

16. STAFF EXPERIENCE:

Firm Employed By: 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. | M.S./2006/Civil Engr. (Transportation focus) | M.B.A./2010		
Active Registration Number/State/Expiration Date	PE.002990 / LA / 3-31-2026		
Year Registered	2001	Discipline	Civil
Contract Role(s)/Brief Description of Responsibilities	Traffic Engineering		

As part of the traffic engineering team, Laurence will focus on **conducting traffic studies** and analyzing data related to v**ehicle flow, signal timing, and intersection performance.** He will assist in developing traffic control plans and provide input on signage and pavement markings to optimize road safety and efficiency. Collaborating closely with the traffic lead, he will ensure that all recommendations are **aligned with project goals and LADOTD regulations.**

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	**South Range Road Operations Study Stage 0 Feasibility Study, Tangipahoa Parish, LA (H.972501.1)** 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	**CCC Decorative Lighting Level 4 TMP, New Orleans, LA (H.015504.5)** 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 LADOTD.
04/23 – 10/23	**US 61 Bridges Girder Repairs, Baton Rouge, LA (H.014591.5 I-12)** 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 LADOTD.
04/18 – 12/21	**LA 30 Roundabouts at Tanger & I-10 Gonzales, Ascension, LA (H.010960.5)** 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	**Alexandria ITS Phase 2, Alexandria, LA (H.011504)** Laurence was the project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and **Level 2 Transportation Management Plan (TMP)** for the Alexandria area.
10/21 – 03/22	**I-10 ITS Scott to Lake Charles, Calcasieu and Lafayette Parishes, LA. (H.013256.5)** **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.

Laurence Lambert resume continued

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 **LADOTD approval.** Laurence evaluated the proposed pedestrian crossings on LA 67 using the LADOTD 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.
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 LADOTD 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	**University Avenue Corridor Planning Study, Lafayette, LA (H.013025 LA 182)** 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 **morning & evening 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 LADOTD 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 LADOTD procedures for utilizing Sidra were followed for this project.
09/16 - 04/17	**I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study, St. Tammany Parish, LA (H.004957.5)** Laurence was the lead traffic engineer for a **LADOTD 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 LADOTD 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.
06/12 - 12/12	**Ramp Metering Study of I-10 Segment, East Baton Rouge and Ascension Parishes, LA** **Project Manager.** Laurence conducted a **feasibility study** to deploy ramp meters along the I-10 Corridor in Baton Rouge between Dalrymple Drive and LA 73. The study consisted of analyzing 17 on-ramps under differing design conditions, which include the following: 2010 Existing, 2012 Without Ramp Meter, 2012 Ramp Meter, and 2012 Ramp Meter with Recommendations. Laurence's role in this project as project manager was to oversee all QA / QC measures and interpret the results from the model. Laurence coordinated with the local agencies to obtain all current proposed projects in the area, which included LADOTD I-10 Widening Project Phases 1 and 2, the Green Light Plan (GLP) Essen Lane Widening Project, and the GLP Highland Road Widening Project.

16. STAFF EXPERIENCE:

Firm Employed By: 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		
Contract Role(s)/Brief Description of Responsibilities		Traffic Engineering			

Kristen will play a key role on the traffic engineering team addressing the impacts of construction on existing traffic patterns and developing strategies to minimize disruptions. She will focus on the l**ayout of traffic control devices and the design of temporary traffic routes.** Additionally, Kristen will collaborate with the broader team to ensure that all traffic related designs are compliant with LADOTD guidelines and contribute to the overall safety and efficiency of the 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).
12/23 – Ongoing	**South Range Road Stage 0, Tangipahoa Parish, LA (H.972501.1)** **Project Manager.** 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** **Project Manager.** As a subconsultant to Richard C. Lambert Consultants, LLC, Kristen was the project manager for a sidewalk feasibility study that included **data collection, safety analysis, alternative analysis, and final report.**
07/23 – 11/23	**CCC Decorative Lighting Level 4 TMP, New Orleans, LA (H.015504.5)** **Project Engineer.** Kristen was the project traffic lead for a L**evel 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 LADOTD.**
04/22 – 11/23	**Capital Area Pathways Project, Baton Rouge, LA (H.013267)** **Project Engineer.** 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 **LADOTD** on the **construction plan development** as PHB's are a new traffic control device for LADOTD. 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, LADOTD and MUTCD guidance.
09/17 – 09/18	**LA 73 Corridor Study Stage 0 (LA 74 to LA 621), Ascension Parish, LA (H.011160)** **Project Engineer.** 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.

Laurence Lambert resume continued

04/19 – 6/21	**LA 117 Improvements Stage 0, Vernon and Natchitoches Parishes, LA (H.013817.1)** **Project Engineer.** 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 v**ertical 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	**LA 429 Connector Stage 0, Ascension Parish, LA (H.012311)** **Project Engineer.** 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	**LA 3040 Feasibility / Safety Study Stage 0, Houma, LA (H.013322)** **Project Engineer.** 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 LADOTD**, 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 LADOTD 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	**I-49 at US 190 and LA 31 Interchange Improvements Stage 0, St. Landry Parish, LA (H.011243.1)** **Project Engineer.** 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 LADOTD 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	**LA 73 Corridor Study Stage 0 LA 74 to LA 621, Ascension Parish, LA (H.011160)** **Project Engineer.** 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	**Cane River Bridge Church Street Route LA 1-X Environmental Assessment (H.001271)** **Project Engineer.** 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.

16. STAFF EXPERIENCE:

Firm Employed By: 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 Engr.		
Active Registration Number/State/Expiration Date			PE.0042074/LA/3-31-2026		
Year Registered	2017	Discipline	Civil		
Contract Role(s)/Brief Description of Responsibilities		Traffic Engineering			

As part of the traffic engineering team, Reece will be responsible for gathering and evaluating traffic data, including t**raffic counts and speed studies**, to support the development of traffic management strategies. He will work on the **design of traffic signals and control systems**, ensuring their implementation meets safety standards and addresses potential traffic issues. He will assist in reviewing plans and providing technical support during the project's execution.

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	**MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA** **Project Engineer.** 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 - Ongoing	**Monroe Phase 3 SEA (H.011507.1)** **Project Engineer.** Reece visited the project site to document the controller type and detection needs at each signalized intersection within the right-of-way.
07/21 - Ongoing	**EBR Computerized Traffic Signal, Phase VB, Baton Rouge, LA (H.007160)** **Project Engineer.** 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 LADOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
01/23 – 02/24	**Alexandria ITS Phase 2, Alexandria, LA (H.011504)** **Project Engineer.** 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.**
04/20 - Ongoing	**LADOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Belle Chasse, LA (H.004791)** **Project Engineer.** 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 LADOTD 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.

Laurence Lambert resume continued

01/21 – 05/21	**I-10 ITS Scott to Lake Charles, Lafayette, Acadia, and Jefferson Davis Parishes, LA (H.013256)** **Project Engineer.** 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 a**nticipated construction quantities and producing a cost estimate** for said quantities by using LADOTD's Bid Tabulation and Cost Estimating Tool.
09/20 – 12/21	**4 Roundabout: US 171 at Boone St., Vernon Parish, LA (H.011909.5)** **Project Engineer.** 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	**LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA (H.010960.5)** **Project Engineer.** 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** **Project Engineer.** 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** **Project Engineer.** 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** **Project Engineer.** 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.

Section 17

I-10: Highland Road to LA 73 Design Build | East Baton Rouge & Ascension Parishes | H.009250

Waggoner Engineering, Inc. (Lead Design Firm)

The James Construction Group (Primoris)/Waggoner (Sigma) team was the only bidder after the other two teams declined to submit a bid.

Past Performance Disciplines performed by Waggoner: **Road**, Bridge, **Traffic**, Environmental, Other (Alternative Delivery), Other (SUE)

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)			
Project Name	Hooper Road Widening (LA 408) Blackwater-Joor	Past Performance Evaluation Category(ies)*	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 (formerly Sigma) 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, right-of-way 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 4-lane boulevard with subsurface drainage, sidewalks, bike paths, and intersection improvements. **Since this project is on a State Route, LADOTD standards, specifications, and pay items were used in the plan development process.**

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 EB and WB 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 right-of-way maps were prepared in accordance to LADOTD Location & Survey standards and deliverables. The ROW maps were reviewed by Location & 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
- √ Traffic Control Design, Traffic Signal Analysis, & Design
- √ PP/FP Roadway Design, Plan Development, Cost Estimate
- √ Hydraulic Analysis & Design
- √ Road Design During Environmental Process
- √ Special Provisions Write-Ups
- √ Technical Research & Guidance
- √ Construction Support

Team Members Involved:

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

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, 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, LA	Owners Project Manager	Nick Oliver, PE		
Owners Address, Phone, Email	P.O. Box 94245, Baton Rouge, LA 70806 | 225.379.1133 | nicholas.oliver@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) is the prime consultant for this project which includes topographic and control surveying, interstate highway design, **diamond interchange design with roundabouts at the ramp terminal**, and roadway improvements to LA 347. This project was performed under a Road Safety IDIQ Contract.

Waggoner performed the **topographic survey** which includes 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 includes 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 LADOTD 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, pay items and worked with LADOTD Project Management to develop the estimated construction costs. Waggoner (formerly Sigma) provided ongoing construction related engineering services throughout the 3-year duration of construction. This included partnering meetings, RFI's, Change Orders, shop drawings, and public meetings.

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
- √ PP/FP Roadway Design, Plan Development, Cost Estimate
- √ Hydraulic Analysis & Design
- √ Road Design During Environmental Process
- √ Special Provisions Write-Ups
- √ Transportation Management Plans
- √ Quality Plan Reviews
- √ Technical Research & Guidance
- √ Construction Support

Team Members Involved:

Robert Lear, Miles Williams, Alex Farr, Bryan Harmon, Joshua Renard

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
Project Name	I-10: LA 415 to Essen Lane on I-10 and 1-12 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 Oliver, PE		
Owners Address, Phone, Email	P.O. Box 94245, Baton Rouge, LA 70806 | 225.379.1133 | nicholas.oliver@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. Our primary responsibility includes **geometrics and road design for the frontage roads, ramps, and local roadway upgrades**. We are 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 **LADOTD 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**.

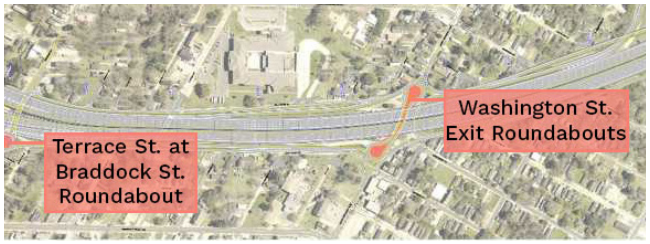
Waggoner also served as a sub for the Environmental Assessment NEPA process. Waggoner was responsible for the **line and grade study geometrics, interchange alternatives**, community connections meetings, public meetings and workshops, researching and compiling as-built plans, constructability reviews, 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. We participated in utility coordination with LADOTD, EBR 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
- √ Traffic Control Design, Traffic Signal Analysis, & Design
- √ PP/FP Roadway Design, Plan Development, Cost Estimate
- √ Hydraulic Analysis & Design
- √ Road Design During Environmental Process
- √ Special Provisions Write-Ups
- √ Transportation Management Plans
- √ Quality Plan Reviews
- √ Technical Research & Guidance
- √ Construction Support



Team Members Involved:

Robert Lear, Miles Williams, Bryan Harmon, Alex Farr, Joshua Renard, Kelsie Bankston, Charlotte Gremillion, Steve Gilliam

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)			
Project Name	I-49 South: Ambassador Caffery & US 190 Interchange	Past Performance Evaluation Category(ies)*		Road, Bridge, Traffic, Other (Project Management)
		Firm Responsibility	Subconsultant	
Project Number	H.002868	Owner's Name	LADOTD	
Project Location	Lafayette Parish, LA	Owners Project Manager	Ryan Morvant, PE	
Owners Address, Phone, Email	1201 Capital Access Road, Baton Rouge, LA 70806 | 225.379.1067 | 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:

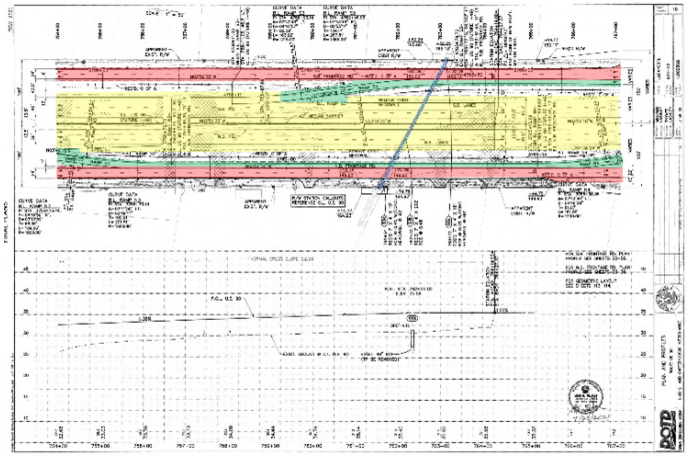
The I-49 Ambassador Caffery project **upgrades an existing at-grade intersection** on US 90 with a **grade separated X-Pattern interchange** on Future I-49. It includes **two-lane one-way frontage roads, U-turns, MSE Walls, subsurface and open drainage systems,** and **signalized ramp intersections.**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

Waggoner (formerly Sigma) 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 I-49 bridges over Ambassador Caffery were designed by Waggoner. We coordinated with Huval & Associates who designed the bridges over the BNSF Railroad at the northend 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
- √ Transportation Management Plans and Signal Design
- √ Roadway & Hydraulics
- √ Bridge Design
- √ Plan Development & Letting Support
- √ Construction Support



Team Members Involved:

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

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, 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 Capital Access Road, Baton Rouge, LA 70806 | 225.379.1067 | Corey.Landry@la.gov			
Services Commenced by this Firm (mm/yy)	8/2019	Total Consultant Contract Cost ($1,000's)		$4,411
Services Completed by this Firm (mm/yy)	10/2022	Cost of Consultant Services Provided by this Firm ($1,000's)		$2,166

Project Description:

The I-220/I-20 Interchange Improvements & BAFB Access Design-Build Project consists of extending I-220 as a four-lane freeway (Barksdale Access Road) south over I-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 I-220/I-20 interchange to also provide direct access from I-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, SWPPP preparation, and quantity computations.** The drainage design included analyzing **existing cross drains** and designing **new cross drains** for Musselshell Bayou, which required a 10x10 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 & Support
- √ Road Design
- √ Hydraulics Report & Calculations
- √ Electronic Plan Development
- √ Comment & Response Log
- √ Preliminary & Final Road Plans
- √ Construction Support
- √ Shop Drawings

Team Members Involved:

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

17. FIRM EXPERIENCE:

Firm Name	Vectura Consulting Services, LLC			
Project Name	I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study	Discipline(s)*		Traffic
		Firm Responsibility	Subconsultant	
Project Number	H.004957.5	Owner's Name	LADOTD	
Project Location	Lacombe, LA	Owners Project Manager	Joachim C Umeozulu, PE	
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 LADOTD 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 **LADOTD 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 morning and evening 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 **LADOTD 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 for the preferred corridor layout
- Developed draft traffic study report

Task 3 Safety Analyses

- Developed **three-year crash analyses report** as per LADOTD standards

Project Relevance:

√ Traffic Control Design, Traffic Signal Analysis & Design
√ Traffic Studies

Team Members Involved:
Brin Ferlito and Laurence Lambert

17. FIRM EXPERIENCE:

Firm Name	Vectura Consulting Services, LLC			
Project Name	I-20: LA 544 Overpass Replacement	Discipline(s)*		Traffic
		Firm Responsibility	Subconsultant	
Project Number	H.010616	Owner's Name	LADOTD	
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 and strategy that included a **CAT Scan**
  - Loss determination utilizing **Citrix data**
  - **Lane Closure recommendations** based on queue analysis
  - Cost estimate
  - **Public information strategies.**

Project Relevance:

√ Traffic Control Design, Traffic Signal Analysis & Design
√ Traffic Studies

Team Members Involved:

Laurence Lambert, Brin Ferlito, Reece Rodrigue, & Kristen Farrington

17. FIRM EXPERIENCE:

Firm Name	Vectura Consulting Services, LLC			
Project Name	Stage 0 Feasibility Study – US 190/ Fremaux Avenue Sidewalk Study	Discipline(s)*		Traffic
		Firm Responsibility	Subconsultant	
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 LADOTD policies** related to access management and complete streets.

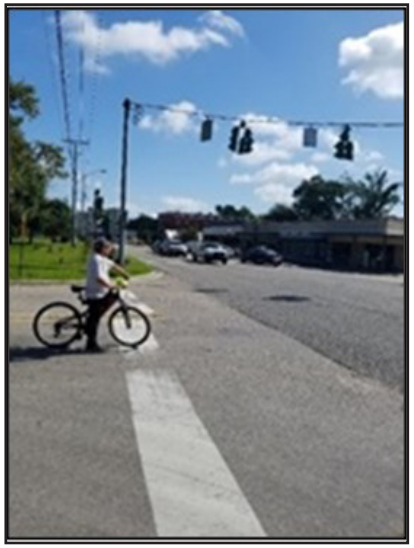
Project Relevance:

- √ Traffic Control Design, Traffic Signal Analysis & Design
- √ Traffic Studies

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 morning and evening peak forecast traffic volumes using **TransCAD data**



Task 2 Traffic Study

This task included the following elements:

- Performed S**ynchro 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 **LADOTD standards**

Team Members Involved:
Brin Ferlito, Laurence Lambert, Kristen Farrington

Section 18

LA 347: Roundabout at Melancon Road | St. Martin Parish | H.009456

Completed roundabout at the intersection of LA 347 and Doyle Melancon Road as part of LADOTD Project H.009456 (construction plans prepared by Waggoner)

Past Performance Disciplines performed by Waggoner: Road, Traffic, Survey, Right-of-Way

Project was part of a Road Safety Retainer contract.

18. APPROACH AND METHODOLOGY:

THE WAGGONER TEAM

Our team is committed to delivering high-quality, on-time design and engineering services to the **Louisiana Department of Transportation and Development (LADOTD).** We have assembled a team with a successful history of LADOTD collaboration, ensuring comprehensive understanding of expectations, state standards, and local project dynamics. Waggoner has partnered with **Vectura Consulting Services, LLC (Vectura)** to provide LADOTD with a streamlined, highly capable team experienced in delivering transportation infrastructure projects across Louisiana. All members of the Waggoner team have previously worked together and are committed to providing the quality services required for this project.

The personnel assigned to this project are the same professionals who have gained valuable experience on similar LADOTD widening and access management projects, ensuring the Department receives efficient, high-caliber service throughout the contract.

Communication and coordination are critical. We will meet early and often with LADOTD to confirm project goals, define constraints, and align expectations on design standards, schedule milestones, and deliverables. All major decisions will be documented and consistently applied across all stages of project delivery.

Our project manager, **Alex Farr, PE** will lead all project efforts, actively manage the schedule and budget, and ensure design continuity across disciplines. Quality control is equally important—our team follows a strict QA/QC process for every milestone submittal, and we will provide LADOTD with a project-specific QA/QC plan upon selection.

PROJECT BACKGROUND AND UNDERSTANDING

The proposed project will widen LA 3211 from a two-lane undivided roadway to a four-lane divided roadway with a curbed median, extending from Yokley Road to LA 182 in St. Mary Parish. The existing roadway will be converted to carry two northbound lanes, while a new two-lane southbound roadway will be constructed alongside it. This widening will improve overall corridor capacity, enhance safety, and accommodate future traffic growth.

Our team understands that this segment of LA 3211 is part of a larger corridor experiencing increased development and mobility demands. The project is not isolated—it interfaces with two key adjacent efforts:

- √ H.015587: LA 3211 at Yokley Road Roundabout - this project is for a roundabout at the intersection of LA3211 and Yokley Rd.
- √ H.015592 - LA 3211: RR Crossing - LA 182 - this project is for a milling and overlay project from the existing northbound lanes.

These concurrent efforts underscore the importance of coordination and design consistency. We will work closely with LADOTD project managers and design teams from the roundabout and overlay projects to ensure geometric and functional consistency across all effort, avoid duplicative work, and support an efficient construction sequence. Please refer to Figure 1 under the Construction Plan Development section for additional information.

It is also understood that no improvements are currently anticipated at the existing signalized intersection at LA 182. The design will account for this condition by tying into the current geometry and maintaining compatibility with the existing signal operations at that location.

As part of the design process, Vectura will perform targeted traffic data collection at driveways and intersecting roadways throughout the project limits. This data will be used to determine the need and placement for left-turn lanes and median openings in accordance with LADOTD access management policies. The intent is to support safety and mobility while minimizing unnecessary access points along the divided corridor.

Through proactive coordination and a comprehensive understanding of the project's role in the broader network, our team will deliver a design that enhances safety, supports economic development, and aligns with LADOTD's goals for corridor continuity and long-term performance.

METHODOLOGY

Project Management

Effective project management is the foundation of successful project delivery. Our team will follow the structure outlined in the LADOTD Project Delivery Manual (PDM), incorporating best practices to ensure timely, cost-effective, and high-quality outcomes.

Alex Farr, PE will serve as the Project Manager and primary liaison with LADOTD, bringing over 13 years of experience managing LADOTD roadway design projects. He will oversee all aspects of project delivery, including scope development, scheduling, milestone coordination, and documentation. Alex will lead the project kickoff, manage monthly reporting, and ensure compliance with LADOTD standards throughout the design process. He will coordinate regularly with LADOTD to address issues proactively, and maintain alignment with project goals and timelines. His leadership ensures effective communication, technical accuracy, and consistent progress from project initiation through final plan delivery.

18. APPROACH AND METHODOLOGY:

Preliminary Work Effort

Immediately upon notice to proceed, our team will initiate the preliminary work effort with a focused goal of establishing a clear and shared understanding of project scope, schedule, and deliverables. One of the first actions will be to schedule and facilitate a project kickoff meeting with LADOTD staff and all key team members. This meeting will serve to review the proposed project limits and scope, clarify expectations, discuss known constraints, and confirm milestone submittals, deliverable formats, and review durations. It will also provide an opportunity to identify any data gaps, confirm LADOTD-provided services, and align the team with other active projects in the corridor, such as the Yokley Road roundabout and the planned pavement rehabilitation.

Following the kickoff meeting, our team will work closely with the LADOTD Project Manager to refine the project scope and prepare a detailed manhour estimate based on identified tasks and anticipated effort. A draft conceptual schedule, sheet count, and staffing plan will be developed in parallel to guide resource allocation and ensure realistic delivery targets. This early coordination will ensure a well-scoped and efficiently planned design process that meets LADOTD's expectations from the outset.

Construction Plan Development

Our design process will follow the LADOTD Road Design Manual and adhere to established milestone submittals:

- √ 30%, 60%, 90%, 100% Preliminary Plans
- √ 60%, 95%, and Final (Stamped) Plans

Each milestone will include applicable documentation such as cost estimates, design reports, drainage studies, QA/QC certifications, and review comment responses. We will coordinate closely with the LADOTD Project Manager and subject matter experts throughout this process, providing timely updates, meeting minutes, and collaborative reviews.

One of the early steps in plan development will be conducting targeted traffic counts, led by Vectura. These counts will focus on driveways and side streets along the corridor to determine appropriate locations for median openings and left-turn lanes. The resulting data will guide the placement of these features in a way that balances corridor mobility with access needs, and all recommendations will follow LADOTD's Access Management Guidelines.

Coordination with other ongoing LADOTD projects will be a key element in this effort as well. At the southern end of the project, the new southbound lanes will be designed to tie seamlessly into the roundabout currently under development at Yokley Road. At the northern terminus, the design will tie into the existing LA 182 signalized intersection, with no changes planned for the current signal infrastructure.

Constructability and sequencing will be central to the plan development process. To minimize impacts to traffic, construction will be staged such that the new southbound lanes are built first, while the existing two-lane roadway remains in service to carry two-way traffic. Once the new southbound lanes are complete, traffic will be shifted to them in a temporary two-way configuration, allowing for the full-depth removal and reconstruction of the existing lanes, which will become the new northbound roadway. All phases will be supported by detailed traffic control plans, construction phasing notes, and temporary drainage provisions to maintain safe and continuous traffic flow.

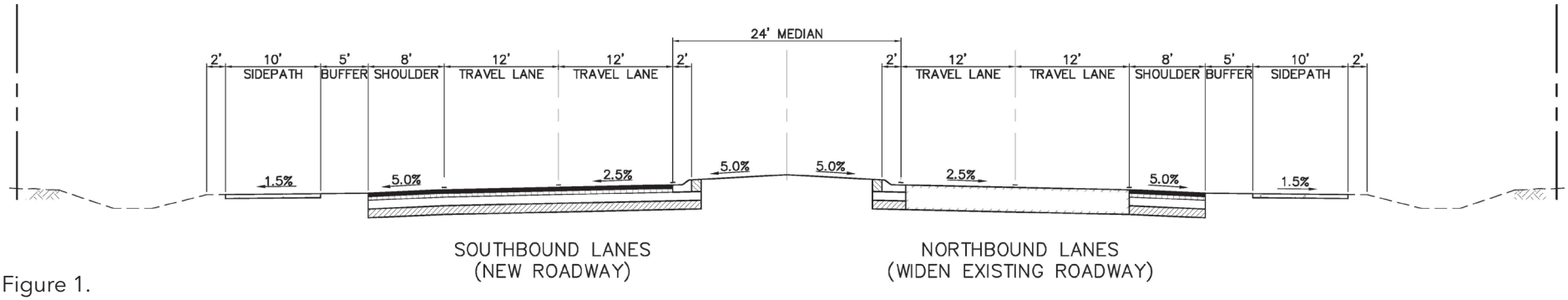


Figure 1.

18. APPROACH AND METHODOLOGY:

Topographic Surveying

The topographic surveying will follow the LADOTD Location and Survey Manual requirements. Waggoner has recently performed several topographic surveys for LADOTD projects. This includes securing right of entry, establishing horizontal and vertical control using GPS observations, preparing a control sketch and BM/TBM calculations, and topography. Waggoner uses Trimble R12 GPS units with L1+L2+Glonass capabilities for GPS surveying, Leica Robotic Total Stations for conventional surveying and hardscapes, and Trimble SX10 for scanning. Our crews utilize LADOTD code lists, Inroads Survey, and CadConform for preparing all deliverables.

Roadway Design

LA 3211 is a minor urban arterial with a 2024 AADT of 4,693 vehicles. The roadway design will incorporate a 24-ft raised median to match the existing conditions at both ends of the project. Two 12-ft lanes, an 8-ft outside shoulder, and 2-ft curb and gutter (1-ft inside shoulder) in each direction will comprise the typical roadway section. We intend to keep the existing pavement in place as the northbound lanes unless the geotechnical investigation dictates a full replacement. Horizontal geometrics will follow the existing roadway alignment, and superelevation will be incorporated if necessary, depending on the design speed. Vertical geometrics will also attempt to match existing to the greatest extent possible. Adjustments will be made to meet the design criteria K-values and where existing drainage problems warrant modifications.

Drainage Design

Recent rainstorms have resulted in road closures along LA 3211 between the BNSF railroad and LA 182, highlighting the corridor's vulnerability to roadway flooding. The major outfall for this area is Yokely Bayou, which is controlled by a pump station just south of US Hwy. 90. Within the past 10 years, St. Mary Parish, CPRA, and the US Army Corps of Engineers have made several modifications to the regional drainage systems within the Yokely Bayou watershed. Our design approach will research and address these issues through a comprehensive evaluation of the existing drainage systems and identification of deficient outfalls, culverts, and roadway grading. Using LADOTD's Hydraulics Manual, our team will analyze runoff patterns and develop drainage improvements that enhance capacity and resiliency. This may include up-sizing cross drains, adjusting ditch geometry, and incorporating subsurface drainage where needed. Our goal is to deliver a design that not only meets current standards but also mitigates future flooding and keeps LA 3211 safely open to traffic during heavy rainfall events.

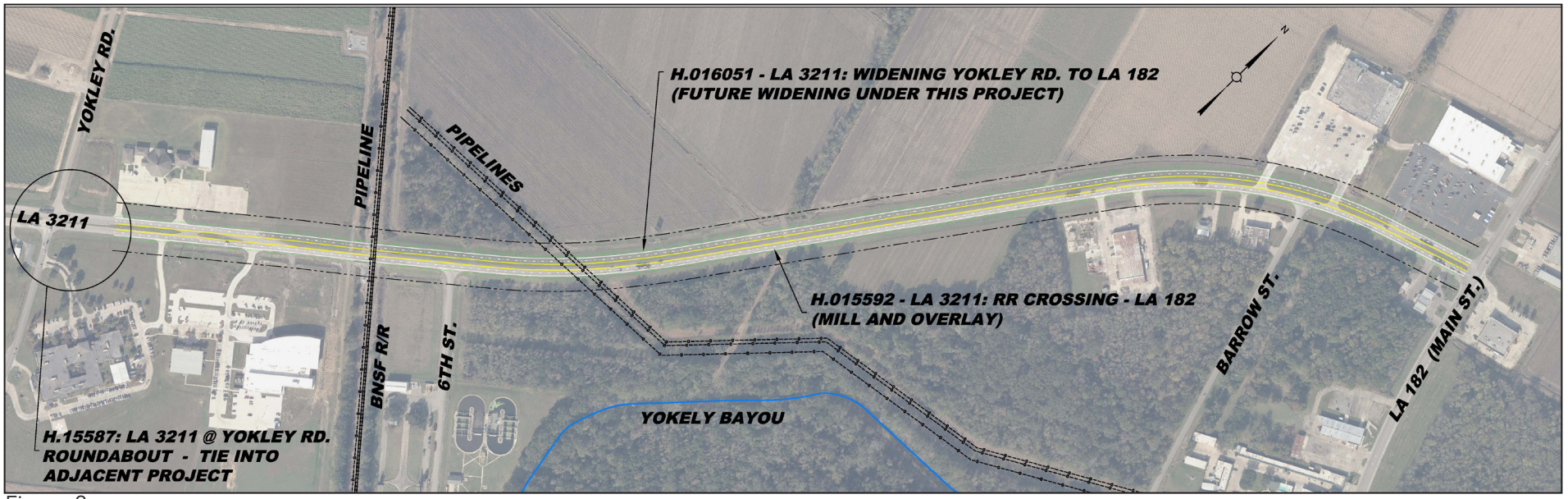


Figure 2.

18. APPROACH AND METHODOLOGY:

Railroad Coordination

Waggoner will coordinate with LADOTD to facilitate all required railroad involvement. LA 3211 crosses the BNSF Railroad (Crossing No. 763041L). The at-grade crossing will be reconfigured for the 4-lane roadway. This typically requires an exception within the project limits and coordination with the railroad to adhere to their requirements. A permit will also be required for the surveying task of this project. Waggoner has worked with BNSF in the past and has experience in securing work permits, flaggers, and design requirements.

Waggoner will prepare and provide all necessary plan sheets, sketches, detail exhibits, and supporting documentation to LADOTD for use in coordinating with BNSF. These materials will be tailored to the railroad's standards and requirements. We will ensure that all deliverables meet LADOTD formatting expectations and are submitted in a timely manner to support permit requests, reviews, and approvals as needed.

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 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 control sections as needed.

SUE & Utility Relocations

While utility relocations are expected to be minimal, Waggoner will work closely with LADOTD and all affected utility owners to identify existing facilities early in design and assess potential conflicts. We have identified at least 4 major pipelines that carry ethylene, liquified natural gas, and crude oil that cross the project limits. We will contact the owners as part of our topographic surveying effort. In addition, we will gather any restrictions or design requirements for depth of cover from each pipeline owner. Our team will prepare a utility conflict matrix and provide timely updates as the design progresses. We will clearly show existing and proposed utility locations in the plans and coordinate relocation efforts as needed to minimize schedule impacts and avoid construction delays.

All utility coordination will follow LADOTD's Utility Relocation and Accommodation Manual, and Waggoner will remain proactive in resolving any utility issues that arise throughout the course of the project.

Right-of-Way Services

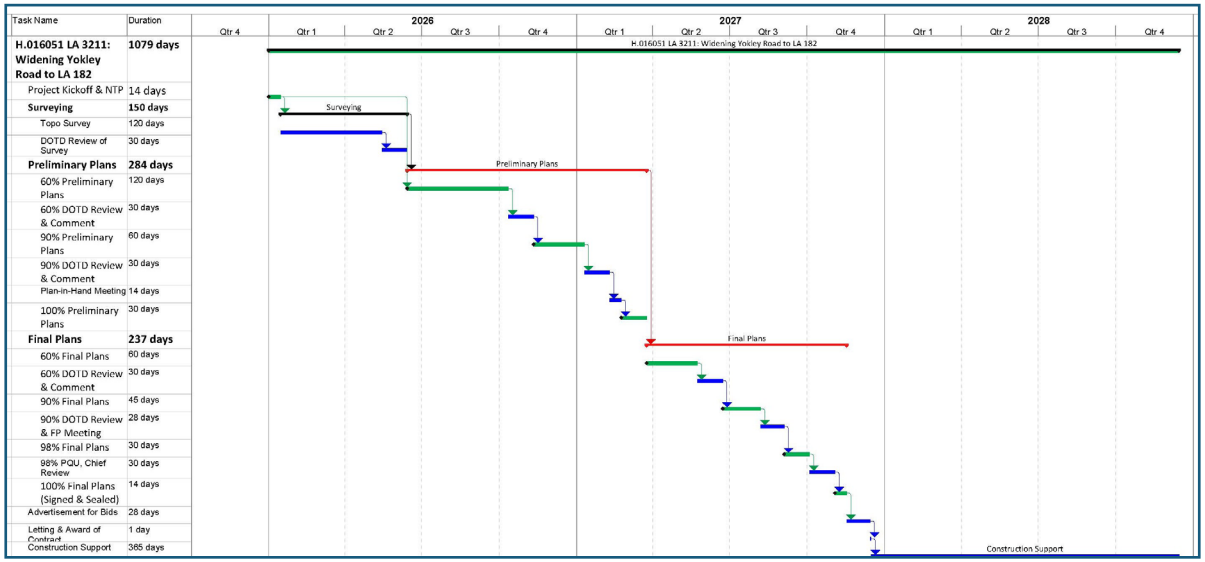
Right-of-way acquisition is not currently anticipated for this project, as the proposed improvements are expected to remain within existing 200-ft LADOTD right-of-way limits. However, if unforeseen conditions arise that necessitate the acquisition of additional right-of-way or servitudes, Waggoner is fully capable of providing property surveys, ROW mapping, title research, and coordination with property owners. Our team has a proven track record delivering ROW services on LADOTD projects and will be ready to mobilize these efforts promptly, if needed.

Construction Support Services

Waggoner will remain engaged through the construction phase to support LADOTD and the selected contractor with engineering-related services. Our team will be available to respond to Requests for Information (RFIs), review contractor submittals, provide plan clarifications, and prepare revisions if unforeseen field conditions arise. We will work closely with LADOTD's project staff to ensure that the construction is executed in accordance with the design intent and applicable standards, helping to maintain quality and minimize delays.

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.



Sections 19-23

LA 342: Roundabout at LA 724 Route LA 342 | H.002163

Waggoner Engineering, Inc. - Lead Road Design Firm

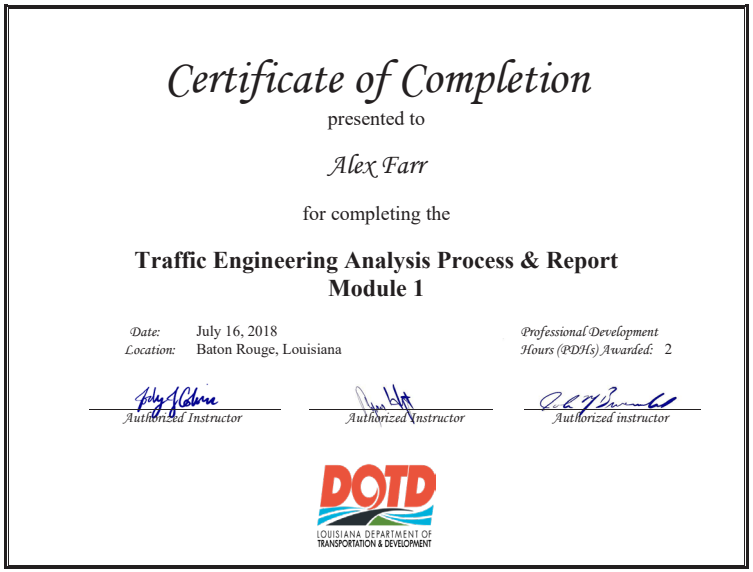
Past Performance Disciplines performed by Waggoner: Road, Traffic, Survey, Right-of-Way, Environmental, Other (Project Management)

Showing a new roundabout under construction, highlighting construction phasing to maintain traffic flow during intersection modifications.

19. WORKLOAD:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
WAGGONER FORMERLY SIGMA CONSULTING GROUP	Road	44-19010, H.010116	LA 1088: Soult and Trinity Roundabouts	$27,765
		Unavailable, 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 - LA37)	$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
	Survey	4400025041	IIJA Off-System Bridge Program, District 62 (7 Project #s)	$31,620
VECTURA CONSULTING SERVICES, LLC	Traffic	4400005484	New Orleans Rail Gateway Avondale EA	$57,644
		H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$11,202
		4400021519	KCS RR Overpasses HBI	$572
		4400023075	S. Lewis Street Widening	$7,499
		4400025299	LA 47 Hayne Blvd Safety Improvements	$9,437
		4400018271	LA 383 Stage 0 Corridor Study	$20,146
		4400025299	Dist. 02H Flashing Yellow Arrow Part 2	$214,810
		4400026913	East Street & Parkview Drive Sidewalks	$641

20. CERTIFICATIONS/LICENSES:



Certificate of Completion

presented to

Alex Farr

for completing the

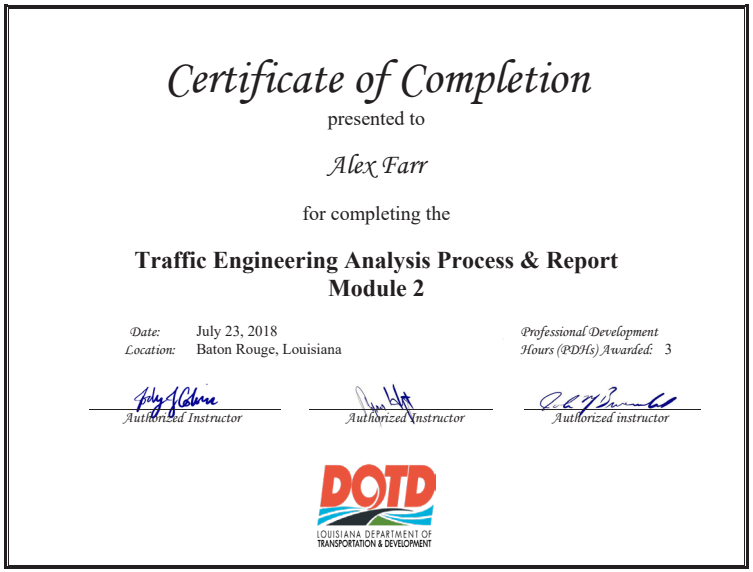
Traffic Engineering Analysis Process & Report
Module 1

Date: July 16, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Alex Farr

for completing the

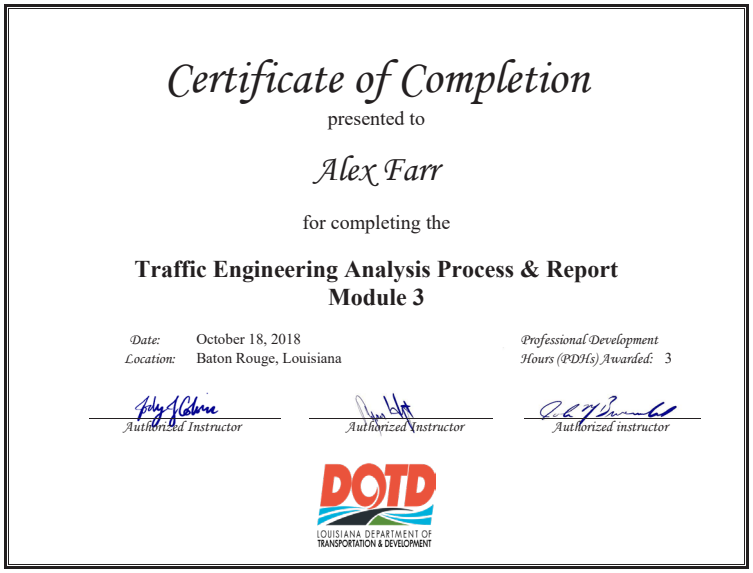
Traffic Engineering Analysis Process & Report
Module 2

Date: July 23, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Alex Farr

for completing the

Traffic Engineering Analysis Process & Report
Module 3

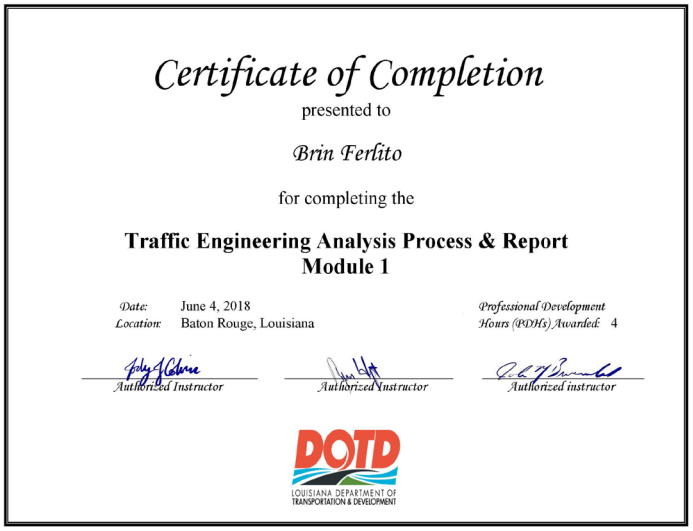
Date: October 18, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

20. CERTIFICATIONS/LICENSES:



Certificate of Completion

presented to

Brin Ferlito

for completing the

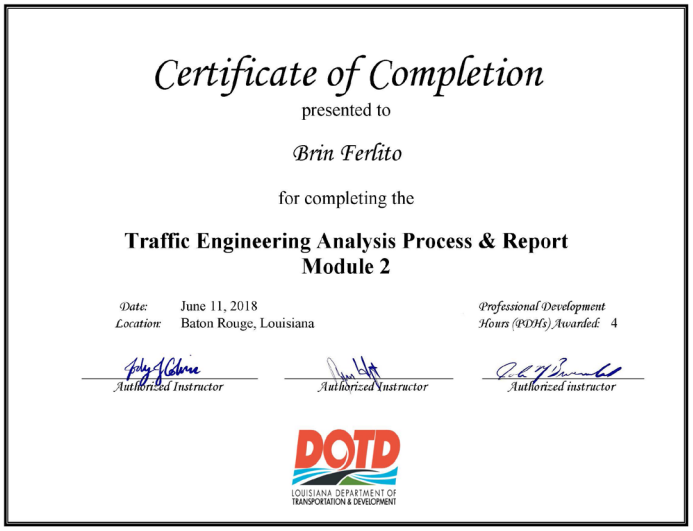
Traffic Engineering Analysis Process & Report
Module 1

Date: June 4, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Brin Ferlito

for completing the

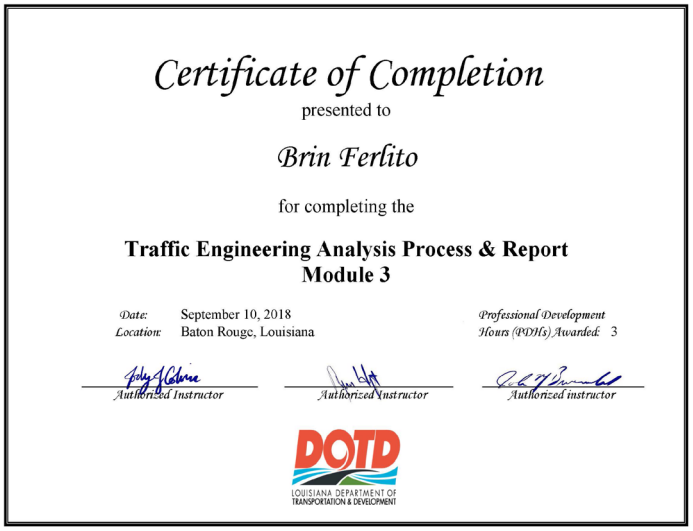
Traffic Engineering Analysis Process & Report
Module 2

Date: June 11, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 3

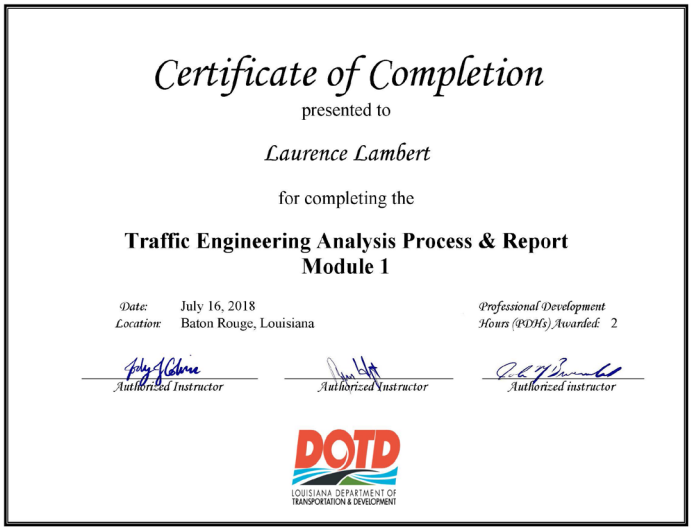
Date: September 10, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

20. CERTIFICATIONS/LICENSES:



Certificate of Completion

presented to

Laurence Lambert

for completing the

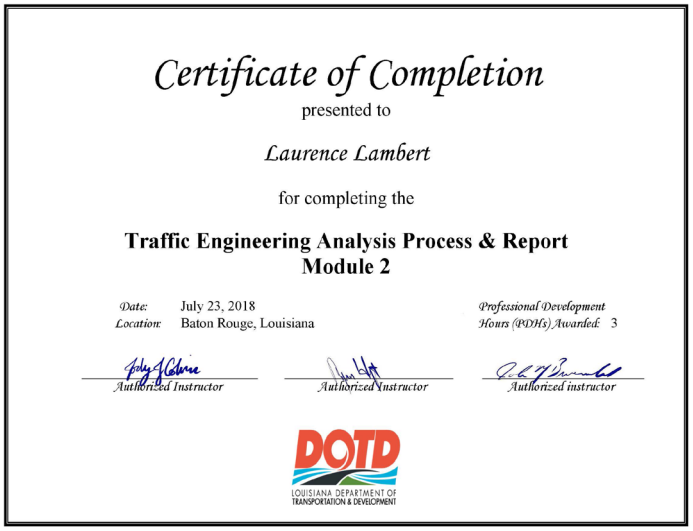
Traffic Engineering Analysis Process & Report
Module 1

Date: July 16, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Laurence Lambert

for completing the

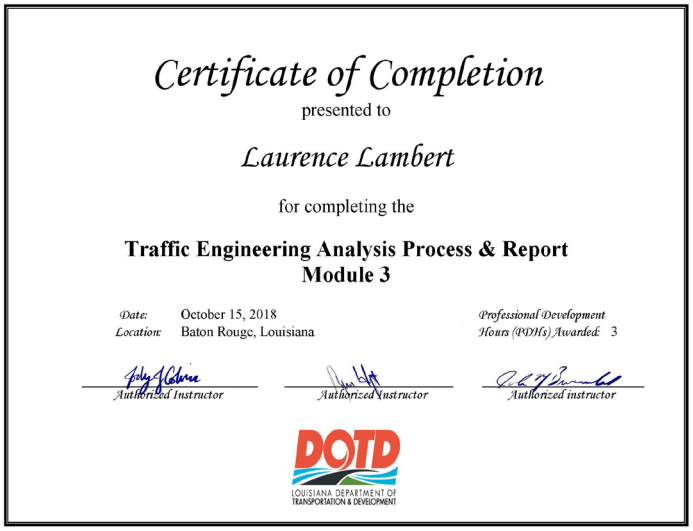
Traffic Engineering Analysis Process & Report
Module 2

Date: July 23, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 3

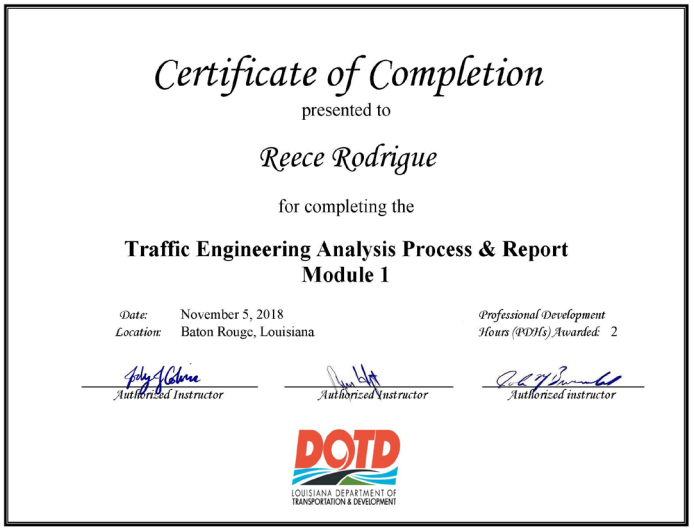
Date: October 15, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

20. CERTIFICATIONS/LICENSES:



Certificate of Completion

presented to

Reece Rodrigue

for completing the

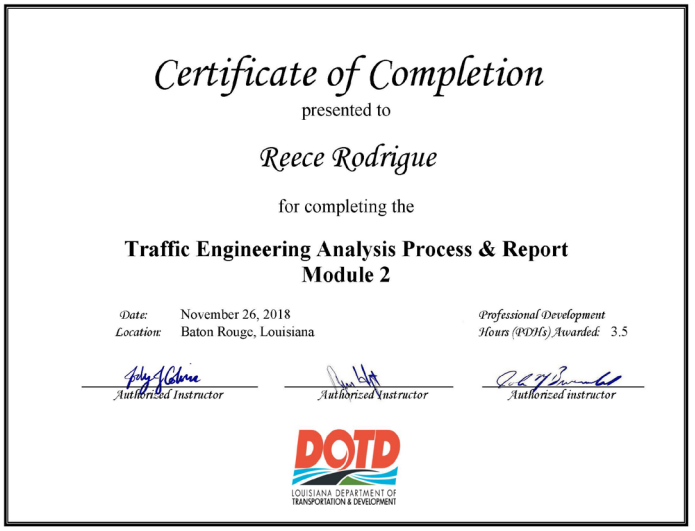
Traffic Engineering Analysis Process & Report
Module 1

Date: November 5, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Reece Rodrigue

for completing the

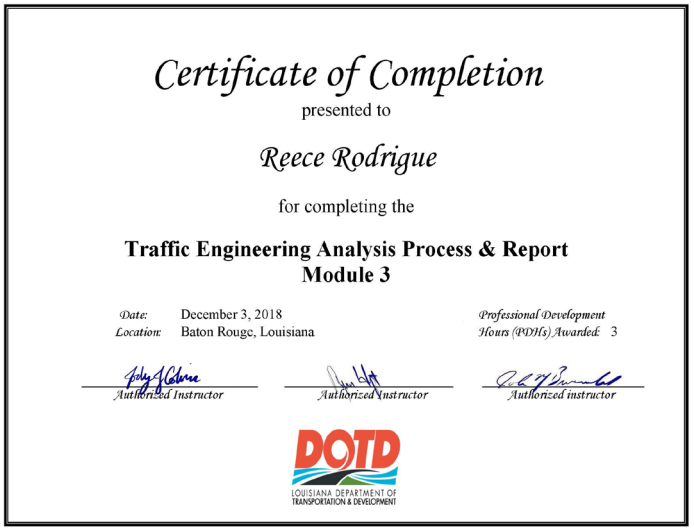
Traffic Engineering Analysis Process & Report
Module 2

Date: November 26, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report
Module 3

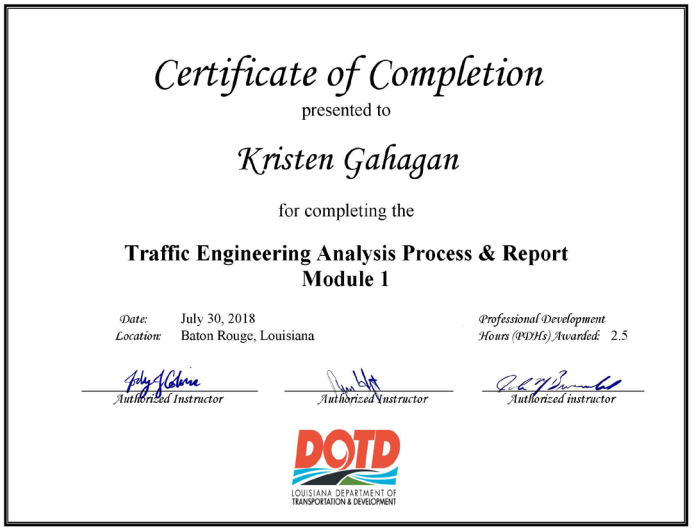
Date: December 3, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

20. CERTIFICATIONS/LICENSES:



Certificate of Completion

presented to

Kristen Gahagan

for completing the

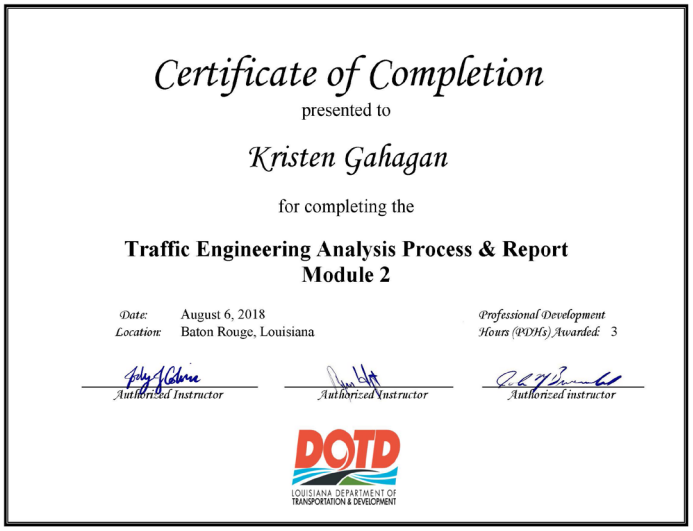
Traffic Engineering Analysis Process & Report
Module 1

Date: July 30, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kristen Gahagan

for completing the

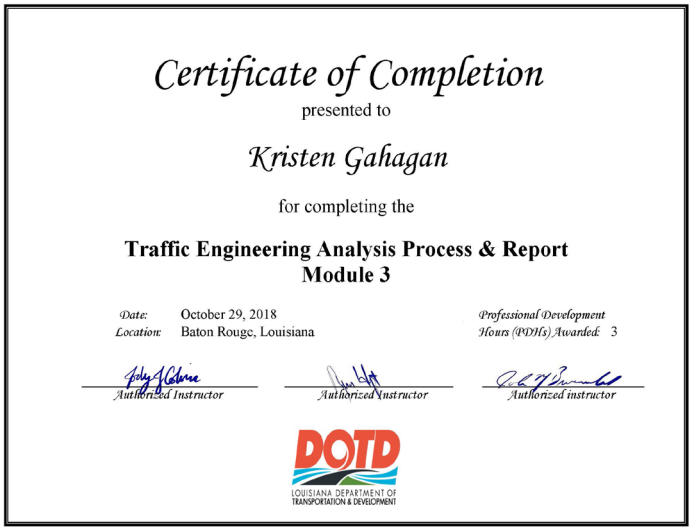
Traffic Engineering Analysis Process & Report
Module 2

Date: August 6, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 29, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

20. CERTIFICATIONS/LICENSES:

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Alex Farr
has attended
Louisiana Traffic Control Supervisor Refresher
Training Course

11/10/2023 to 11/10/2027
Training Valid Through

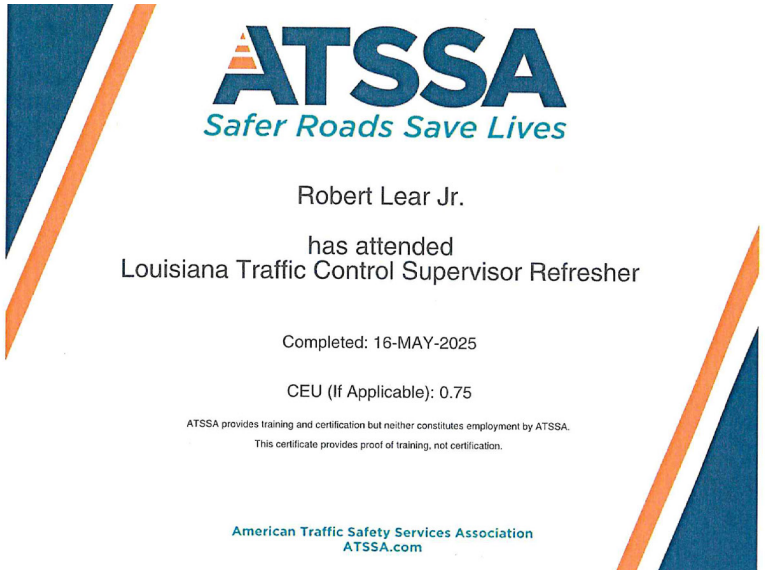
Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.

ATSSA American Traffic Safety Services Association ATSSA.com



ATSSA
Safer Roads Save Lives

Robert Lear Jr.

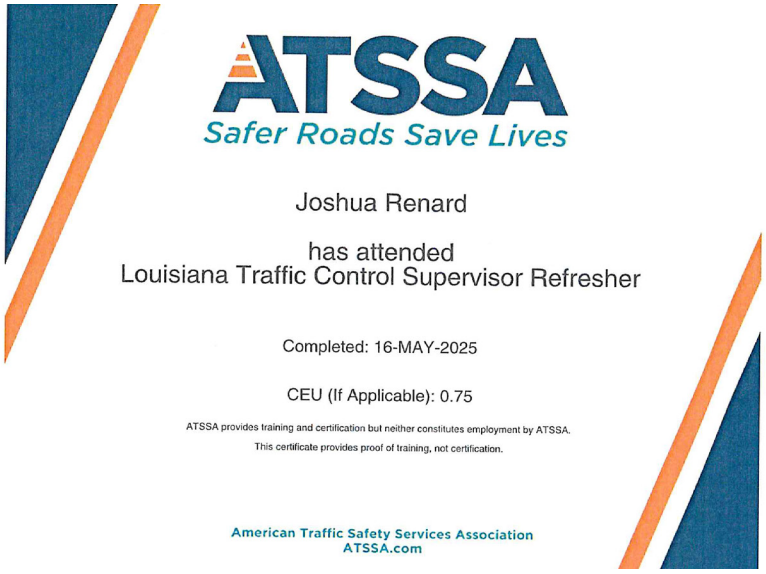
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 16-MAY-2025

CEU (If Applicable): 0.75

ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.

American Traffic Safety Services Association
ATSSA.com



ATSSA
Safer Roads Save Lives

Joshua Renard

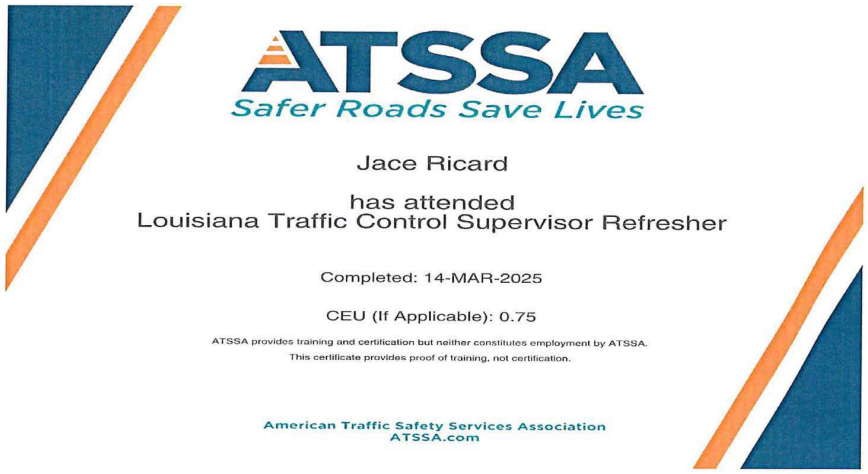
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 16-MAY-2025

CEU (If Applicable): 0.75

ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.

American Traffic Safety Services Association
ATSSA.com



ATSSA
Safer Roads Save Lives

Jace Ricard

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 14-MAR-2025

CEU (If Applicable): 0.75

ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.

American Traffic Safety Services Association
ATSSA.com

20. CERTIFICATIONS/LICENSES:

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Brin Ferlito
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

4/29/2022 to 4/29/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Laurence Lambert
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

4/29/2022 to 4/29/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Reece Rodrigue
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

3/10/2023 to 3/10/2027
Training Valid Through

Vice President of Education and Technical Services

New Orleans, LA
Location

President, CEO

ATSSA provides training and certification but neither constitutes employment by ATSSA.

American Traffic Safety Services Association ATSSA.com

American Traffic Safety Services Association

This is to affirm that

Sheelagh Ferlito

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 5/9/2023
Exp. Date 5/8/2027
State Issued LA

ATSSA
Instructor Name
Instructor Signature

A1000126216

Verify at Flagger.com

20. CERTIFICATIONS/LICENSES:

ATSSA
Safer Roads Save Lives

Kristen Farrington

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 18-APR-2025

CEU (If Applicable): 0.75

ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.

American Traffic Safety Services Association
ATSSA.com

ATSSA
Safer Roads Save Lives

Reece Rodrigue

has attended
National Flagger Certification Training Course

Completed: 01-OCT-2024

CEU (If Applicable): 0

ATSSA provides training and certification but neither constitutes employment by ATSSA.
This certificate provides proof of training, not certification.

American Traffic Safety Services Association
ATSSA.com

ATSSA
SAFER ROADS SAVE LIVES

AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION

This is to affirm that
Kristen Farrington

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Expiration Date 7/5/2025 *State Issued in* LA

Instructor Signature

Verification available by calling 1-877-642-4637 or at http://www.flagger.com

ATSSA
SAFER ROADS SAVE LIVES

American Traffic Safety Services Association

This is to affirm that

Laurence Lambert

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

ATSSA

Issue Date 5/9/2023

Exp. Date 5/8/2027

State Issued LA

Instructor Name

Instructor Signature

A1000126196

Verify at Flagger.com

20. CERTIFICATIONS/LICENSES:

RTA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUIS ARMSTRONG NEW ORLEANS INTERNATIONAL AIRPORT

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations & under the State of Louisiana United Certification Program (LAUCP)

Vectura Consulting Services, LLC

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC488490, NC541330, NC541340

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: June 2025 to June 2026

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Jm Roddy

Paula Roddy, Compliance Programs Director

Louisiana Department of Transportation & Development

20. CERTIFICATIONS/LICENSES:

State of Louisiana
Secretary of State

COMMERCIAL DIVISION
225.925.4704

Fax Numbers
225.932.5317 (Admin. Services)
225.932.5314 (Corporations)
225.932.5318 (UCC)

Name	Type	City	Status
WAGGONER ENGINEERING, INC.	Business Corporation (Non-Louisiana)	JACKSON	Active

Previous Names

Business: WAGGONER ENGINEERING, INC.
Charter Number: 34954531F
Registration Date: 6/16/2000
Domicile Address
143A LEFLEURS SQUARE
JACKSON, MS 39211
Mailing Address
143A LEFLEURS SQUARE
JACKSON, MS 39211
Principal Business Office
143A LEFLEURS SQUARE
JACKSON, MS 39211
Registered Office in Louisiana
450 LAUREL STREET, 8TH FLOOR
BATON ROUGE, LA 70801
Principal Business Establishment in Louisiana
450 LAUREL STREET, 8TH FLOOR
BATON ROUGE, LA 70801

Status

Status: Active
Annual Report Status: In Good Standing
Qualified: 6/16/2000
Last Report Filed: 6/11/2024
Type: Business Corporation (Non-Louisiana)

State of Louisiana
Secretary of State

COMMERCIAL DIVISION
225.925.4704

Fax Numbers
225.932.5317 (Admin. Services)
225.932.5314 (Corporations)
225.932.5318 (UCC)

Name	Type	City	Status
VECTURA CONSULTING SERVICES, LLC	Limited Liability Company	BATON ROUGE	Active

Previous Names

Business: VECTURA CONSULTING SERVICES, LLC
Charter Number: 41994609K
Registration Date: 8/24/2015
Domicile Address
4467 BLUEBONNET BLVD.
SUITE A
BATON ROUGE, LA 708099639
Mailing Address
PO BOX 14269
BATON ROUGE, LA 70898

Status

Status: Active
Annual Report Status: In Good Standing
File Date: 8/24/2015
Last Report Filed: 7/26/2024
Type: Limited Liability Company

21. QA/QC Plan:

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

22. SUB-CONSULTANT INFORMATION:

Firm Name (Name must match exactly as registered with Louisiana's Secretary of State (SOS): including punctuation, include screenshot(s) from SOS at the end of Section 20)	Address	Point of Contact and Email Address	Phone Number
VECTURA CONSULTING SERVICES, LLC	4467 Bluebonnet Blvd., Suite A Baton Rouge, LA 70809-9639	Sheelagh Brin Ferlito, PE Partner bferlito@vecturacs.com	225.223.6685

23. LOCATION:

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

WAGGONER

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