US 165: Superstreet, Deloach St - White St
Route: US 165
Ouachita Parish

LADOTD Contract No. 4400033077
State Project No. H.015641.5
Federal Aid Project No. H015641

September 23, 2025

Submitted by:
Waggoner Engineering, Inc.

waggonereng.com

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

September 23, 2025

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

RE: Contract No. 4400033077, State Project No. H.015641.5, Federal Project No. H015641
Request for Qualifications for Engineering and Related Services for US 165: Superstreet, Deloach St - White St

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 **US 165 Superstreet, Deloach Street to White Street project.** We formally acknowledge Addendum No. 1 issued August 28, 2025 and Addendum No. 2 issued on September 15, 2025. Our team is fully prepared to bring our expertise and proven project delivery track record to support this contract.

FIRM EXPERIENCE AND 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's 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 Design Experience: Waggoner (formerly Sigma) has an extensive tract record of providing engineering design and related services for roadway intersection improvement projects. Our team has successfully delivered multiple LADOTD projects comparable to the US 165 Superstreet project, including the I-49 South: Ambassador Caffery & US 90 Interchange project. This valuable experience has positioned us to effectively manage and deliver a quality product to LADOTD. Our project manager, Alex Farr, PE has 13 years of experience in roadway design on LADOTD projects. Our staff experience is founded on LADOTD project delivery processes and will be committed to this contract.

We have partnered with **Vectura Consulting Services, LLC (Vectura),** a traffic engineering consulting firm, who will provide 100% of the Traffic and ITS Design Services for this project. Vectura is a certified Disadvantaged Business Enterprise (DBE) firm recognized by LADOTD and is both a Certified Women-Owned Business and a Certified Small and Emerging Business Enterprise.

Our team is also complimented by **Ardaman and Associates, Inc. (Ardaman)** and **DRMP, Inc. (DRMP)**. Ardaman will provide geotechnical engineering for light pole foundation design and DRMP will support roadway lighting design. Waggoner, Vectura, Ardaman and DRMP have worked together on several similar roadway projects.

PROJECT UNDERSTANDING: Waggoner understands that this project is intended to provide a safer route for the traveling public by implementing targeted intersection improvements along US 165. These improvements include J-turns with bulb-outs, adding turn lanes, extending existing turn lanes, converting existing intersections to R-Cut intersections, removing full access medians, installing high friction surface treatments as well as traffic signal timings and updating the existing lighting system. Pedestrian mobility improvements will include cross walks and pedestrian and bike facilities along the Service Roads. As part of our approach, we will ensure that all services and documents will comply with AASHTO and LADOTD guidelines and standards.

APPROACH AND METHODOLOGY: Our approach and methodology as outlined in Section 18 is grounded in a deep understanding of the 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 a project that benefits the residents and those traveling through Ouachita Parish, LA. 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

I-10 at Henderson Interchange: LA 347 / I-10 Ramp Roundabout (St. Martin Parish)
H.003014

Converted the existing traditional stop-condition diamond interchange to a continuous-flow roundabout interchange. Heavy attention was given to realignment of LA 347 beneath I-10 to accommodate the roundabout geometrics as well as addressing any needed improvements to drainage in this footprint. Waggoner (formerly Sigma Consulting Group, Inc.) prepared the construction plans for this project.

DOTD FORM: 24-102

(Revised August 11, 2025)

PROPOSAL TO PROVIDE CONSULTANT SERVICES

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

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

1. Contract Name as shown in the advertisement	Engineering and Related Services US 165: Superstreet, Deloach St - White St Route: US 165 Ouachita Parish
2. Contract Number(s) as shown in advertisement	LADOTD Contract No. 4400033077
3. State Project Number(s), if shown in the advertisement	State Project No. H.015641.5 Federal Aid Project No. H015641
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 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**
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 J. Lear, Jr., PE, LSI** Vice President 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 J. Lear, Jr., PE, LSI** Vice President 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. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response. **Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.**	 Signature above shall be the same person listed in Section 9 Date: September 23, 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	15%
	Total DBE Participation	15%

Sections 12-15

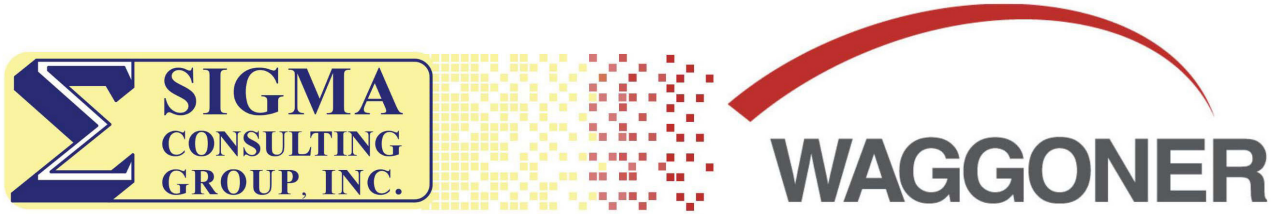
I-10: Highland Road to LA 73 Design Build | East Baton Rouge & Ascension Parishes
H.009250

This project consisted of six-laning I-10 for 6.8 miles between the Highland Road Interchange and LA 73. Waggoner (formerly Sigma Consulting Group, Inc.) led the design coordination for this project and performed all roadway design, maintenance of traffic design, transportation management planning, subsurface utility investigations and utility coordination.

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

12. PAST PERFORMANCE EVALUATION DISCIPLINE TABLE:

Discipline(s)	% of Overall Contract	**Waggoner (formerly Sigma)**	**Vectura (DBE)**	**Ardaman**	**DRMP**	Each Discipline must total to 100%
Road	78%	100%	-	-	-	100%
Traffic	10%	-	100%	-	-	100%
ITS	5%	-	100%	-	-	100%
Other (Lighting)	5%	80%	-	-	20%	100%
Geotech	2%	-	-	100%	-	100%
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.						
Percent of Contract	**100.0%**	**82.0%**	**15.0%**	**2.0%**	**1.0%**	100.0%



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

13. TEAM 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
	Supervisor - Engineer	5	6
	Engineer	5	9
	Engineer Intern	4	5
	CADD Technician	2	4
	Senior Technician	2	5
	Instrument Man	1	1
	Surveyor	1	2
	Party Chief	1	2
	Clerical	1	2
VECTURA CONSULTING SERVICES, LLC	Supervisor Engineer	2	2
	Engineer	2	4
	Engineer Intern	2	2
	Senior Technician	1	2
	Technician	0	2
	Supervisor - Other	0	1
	Clerical	1	1
Ardaman & Associates, Inc.	Principal	2	3
	Engineer	1	6
	Engineer Intern	3	6
	Senior Technician	8	9
	Technician	11	15
	Supervisor - Engineer	3	3
	Supervisor - Other	3	4
	CADD Technician	2	2
	Clerical	1	2
	Administrative	1	1

13. TEAM 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)
DRMP	Principal	0	2
	Supervisor - Engineer	1	6
	Engineer	0	9
	Engineer Intern	0	5
	CADD Technician	0	4

14. ORGANIZATIONAL CHART:

KEY
Waggoner (formerly Sigma)
Vectura
Ardaman
DRMP
(#) 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
FORMERLY SIGMA CONSULTING GROUP

PRINCIPAL-IN-CHARGE
MILES WILLIAMS, PE (1)

QA/QC
ROBERT J. LEAR, JR., PE, LSI (2) ★

PROJECT MANAGER
ALEX FARR, PE (3) ★ ▶

ROAD DESIGN SERVICES
ALEX FARR, PE (3) ★ ▶
Kelsie Bankston, PE
Charlotte Gremillion, PE

ELECTRICAL DESIGN SERVICES
MICHAEL TRAVIS, PE (6)
Jim Highland, PE

HYDRAULICS & DRAINAGE DESIGN
BRYAN HARMON, PE (PART-TIME)
Gage Spell, LSI
Steven Gilliam, PE

UTILITY COORDINATION
JOSHUA RENARD, PE ★

STRUCTURAL DESIGN SERVICES
JOSHUA GONYA, PE
Andrew Windmann, PE

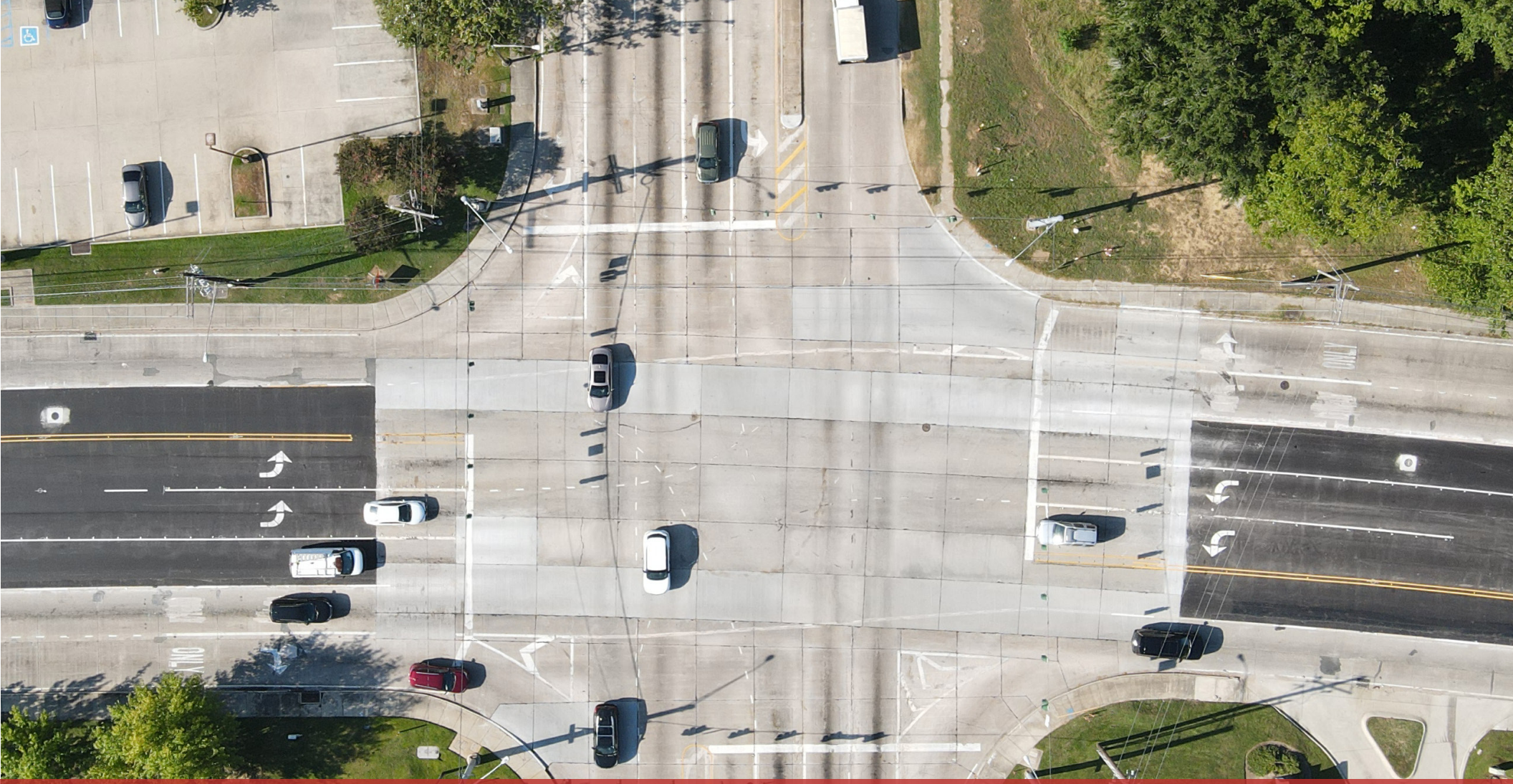
ITS & TRAFFIC ENGINEERING
SHEELAGH BRIN FERLITO, PE, PTOE (4) ★ ▶
Laurence Lambert, PE, PTOE (5) ★ ▶
Reece Rodrique, PE, PTOE, RSP1 ★ ▶
Kristen Gahagan Farrington, PE, PTOE, RSP1 ★ ▶
Ronald St. Angelo

GEOTECHNICAL ENGINEERING
MEGAN BOURGEOIS, PE ★
ROBERT JEWELL, PE (7) ★
Mark Woodward, PE
Jarmon King, PE ★
Jessica Litt
Casey Floyd ★

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	Robert J. Lear, Jr., PE, LSI	Waggoner	PE#29394 - Civil	LA	3/31/2027
3	Alex Farr, PE	Waggoner	PE#40426 - Civil	LA	9/30/2026
4	Sheelagh Brin Ferlito, PE, PTOE	Vectura	PE#25383 - Civil PTOE# 932	LA	PE Exp. 9/30/2026 PTOE Exp. 9/09/2027
5	Laurence Lambert, PT, PTOE, PTP	Vectura	PE#29901 - Civil PTOE#1303	LA	PE Exp. 3/31/2026 PTOE Exp. 02/03/2028
6	Michael Travis, PE	Waggoner	PE#29940 - Electrical	LA	3/31/2026
7	Robert Jewell, PE	Ardaman	PE#38579 - Civil	LA	9/30/2026

* 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)
H.010652

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.) was the lead road design firm selected to fully reconstruct existing LA 73 (Jefferson Hwy.), including the complete removal and replacement of pavement and base course, sidewalks, and curbs/gutters from Airline Hwy to the I-12 on-ramp near Drusilla Lane. This project also included concrete pavement patching and repair of damaged curbs and sidewalks from the I-12 on-ramp to Essen Lane.

Past Performance Disciplines performed by Waggoner: Road, Traffic

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 No. 40426 / LA / 09-30-2026		
Year Registered	2016	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Project Manager, Discipline Lead - Road Design Services | **Meets MPR 3**			

Alex will serve as Project Manager and will be responsible for the day-to-day management of the US 165 Superstreet project, **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.
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.
01-22 - Ongoing SECTION 17 PROJECT	**LA 408: Hooper Road (Blackwater Bayou to Joor Rd.) East Baton Rouge Parish, LA (H.002316)** **Project Engineer.** This five-lane widening project is for a two-mile rural road providing a new two-lane roundabout and facilities for pedestrians, bicyclists and vehicles. Alex is responsible for checking the roundabout graphical grades, construction sequencing, signing and striping, the quantities, and cost estimate.
04/19 - 11-19 SECTION 17 PROJECT	**Residential and Parish-Wide Traffic Calming Policies and Procedures Manual, Ascension Parish, LA** **Project Engineer.** Alex was responsible for assisting in the development of the Traffic Calming Manual for Ascension Parish. This manual is intended to be used by Ascension Parish to evaluate and implement traffic calming measures and establish guidelines for their installation. Alex was responsible for reviewing horizontal and vertical traffic calming countermeasures as well as developing safety countermeasures for parish routes with a posted speed greater than 35 MPH. Alex also assisted in the development in the Traffic Calming Implementation Process, which begins with the initial evaluation request to actual implementation of the chosen countermeasure. His responsibilities also included gathering educational and safety information to assist all road users in safely navigating the roadways and pedestrian facilities.
2013 - 2015 SECTION 17 PROJECT	**US 171: J-Turns @ N. Perkins Ferry Road, Calcasieu Parish, LA (H.010197)** **Project Engineer.** This was a LADOTD safety project issued as a task order under a Safety Retainer contract. The project included full topographic surveying and road design to install new J-Turns and associated turn lanes at the intersection of N. Perkins Ferry Road and US Highway 171 North of Lake Charles, LA. Alex was responsible for checking he roadway geometry and plan profiles. Alex was also responsible for assisting in developing the permanent pavement marking detail, construction sequencing, and quantity estimate.

Alex Farr resume continued

03/13 – 07/22	**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
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.
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 No. 23094 / LA / 03-31-26		
Year Registered	1988	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Principal-in-Charge | **Meets MPR 1**		

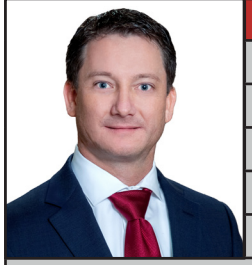
Miles will oversee the project, ensuring that all services are performed in compliance with the contract. He will provide high-level direction and decision-making, ensuring the team adheres to the **LADOTD Location and Survey Manual** and other relevant standards. Miles will also be responsible for final 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.
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 road design engineer of record for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. He is responsible for the horizontal and vertical geometric design, subsurface and open ditch drainage design, and road plan production of a four-tiered interchange, eight-lane mainline, two-lane one way frontage roads, and u-turns. He also is responsible for coordinating the frontage road extensions and interchange alternative design for future/interim condition implementation.
03/13 – 07/22	**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.

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 No. 29394 / LA / 03-31-2027		
Year Registered	2001	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		QA/QC | **Meets MPR 2**			

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 and NEPA Documentation phase of this 2.2 mile urban roadway capacity project. The project aims to upgrade the existing two-lane rural roadway to a four-lane boulevard with improved drainage, sidewalks, bike paths, and intersection enhancements. Waggoner prepared an Environmental Assessment, obtained a FONSI from FHWA, and developed preliminary and final roadway and drainage plans. The design features a raised median, dedicated bike lanes, ADA-compliant sidewalks, a roundabout, and R-CUT bulb outs for safe movements. Construction plans included various elements such as typical sections, roadway profiles, drainage systems, geometric layouts, pavement joint layouts, pedestrian signals, striping and signing, lighting, utility relocation, and cross sections. Topographic and property surveys and right-of-way maps were prepared according to LADOTD standards. Waggoner performed SUE services, conducted test holes, and maintained a utility conflict matrix. As the prime consultant, Waggoner managed the project schedule, facilitated meetings, and participated in cost risk assessments.
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 also designed four roundabouts for this project. He is part of the roadway task force which collaborates with the design team, LADOTD, and the CMAR contractor.
04/19 - 11/19 SECTION 17 PROJECT	**Residential and Parish-Wide Traffic Calming Policies and Procedures Manual, Ascension Parish, LA** **Project Manager.** Robert led the project from initiation through completion, serving as the primary liaison between Waggoner and Ascension Parish stakeholders. He managed the coordination of multidisciplinary teams, oversaw research and technical documentation, and ensured the manual aligned with the national and state transportation standards including ITE, FHWA, LTAP, and LADOTD. Robert directed the creation of a comprehensive traffic calming toolkit addressing horizontal and vertical deflections, street width reductions, and routing restrictions applicable to both existing and new roadway facilities.

Robert Lear resume continued

04/19 - 11/19 SECTION 17 PROJECT	**US 171: J-Turns @ N. Perkins Ferry Road, Calcasieu Parish, LA (H.010197)** **Project Engineer.** This was a LADOTD safety project issued as a task order under a Safety Retainer contract. The project included full topographic surveying and road design to install new J-Turns and associated turn lanes at the intersection of N. Perkins Ferry Road and US Highway 171 North of Lake Charles, LA. Robert was responsible for the road design, drainage design, and plan production. All work for this project was performed using CADConform and LADOTD electronic plan delivery requirements.
03/13 - 07/22	**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.
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.

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 No. 47126 / LA / 03-31-2027		
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Road Design Services			

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).
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.
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.
05/21 – 03/23	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** **Project Engineer.** This project involves channel improvements and adding subsurface drainage systems to an outfall channel adjacent to LA 352. Kelsie is responsible for the typical sections, plan profiles, developing a suggested sequence of construction, diversion road design for maintenance of traffic, quantity computations, pay item list, and documentation of comments and responses.
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 No. 47930 / LA / 09-30-2027		
Year Registered	2023	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Road Design Services			

Charlotte will lead the road design services 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. She is also the lead design engineer for four roundabouts, which are designed in accordance with NCHRP 1043 Guidelines.
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 roadway geometrics, design reports, technical calculations, and plan development. She designed all typical sections through the addition of two new roundabouts. She identified and assessed the roadway design constraints in the area when deciding the location of the two roundabouts and roadway approaches. She connected the existing conditions to the new designs so that access would not be limited. She is also the lead design engineer for both roundabouts, which are being designed in accordance with NCHRP 1043 Guidelines.
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. These roundabouts are being designed in accordance with NCHRP 1043 Guidelines.
08/23 - 11/24	**Gadsden Lakewood Drive Improvements, Gadsden, 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.
01/23 - Ongoing	**Hooper Road: LA 3037 - LA 37, East Baton Rouge Parish, LA (H.009300)** **Lead Road Design Engineer.** Charlotte is the lead road design engineer for this project, which includes three segments of LA 408 in Central, LA. This project includes widening to Hooper Road at Sullivan Road (LA 3037) intersection to a four-lane boulevard, a 2x1 roundabout at Deval Road, turn lanes at major subdivision entrances along Hooper Road, and a 2x1 roundabout at Greenwell Springs Road (LA 37). She designed both roundabouts in accordance with NCHRP 1043 Guidelines.
03/25 - Ongoing	**LA 933 at Joe Sevario Road Roundabout, Ascension Parish, LA (H.014409)** **Lead Road Design Engineer.** Charlotte is the lead road design engineer for this project, which includes replacing a stop-controlled intersection with a single lane roundabout. She is designing the horizontal and vertical geometrics, typical sections, plan profiles, geometric details, sequence of construction, and cross sections. The design of these roundabouts are in accordance with NCHRP 1043 Guidelines.

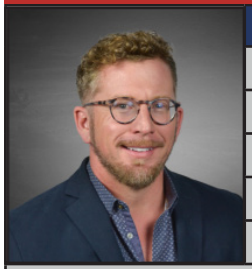
16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Michael Travis, PE**			Years of Relevant Experience with this Employer	2
Title	Senior Electrical Engineer			Years of Relevant Experience with Other(s) Employers	27
Degree(s)/Years/Specialization			BS / 1994 / Electrical Engineering		
Active Registration Number/State/Expiration Date			PE No. 29940 / LA / 03-31-2026		
Year Registered	2002	Discipline	Electrical and Computer Engineer, Control Systems Engineering		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Electrical Design Services | **Meets MPR 6**		

For this contract, Michael will focus on **roadway and aesthetic lighting design**. He brings extensive experience in designing and overseeing the **construction and operation of electrical systems** for both private and public facilities. His expertise includes **electrical lighting systems**, emergency generator systems, security, life safety, and energy management systems. Michael has worked on projects for commercial buildings, correctional facilities, military facilities, parks, schools, and universities. He has provided **comprehensive design of electrical power and control systems**, including life safety, instrumentation, networking communication, and video surveillance. His designs incorporate segregated redundant networks using ring and star topologies for complex security access and control monitoring systems.

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
02/15 - 09/16	**Downtown Greenway, East Baton Rouge Parish, LA** **Electrical Engineer.** Michael completed the design of electrical lighting and power systems for a greenway to accommodate bicyclists and pedestrians in existing streets through the use of planted areas with feature lighting. Electrical design consisted of pathway lighting fixtures flush with the surrounding ground to illuminate the pathway along with accent lighting for existing monumental trees. Project provided LED source lighting fixtures for energy efficiency and low maintenance. Lighting design provided hinged base standards for ease of maintenance and provided local 120volt ground fault protected receptacles for use to connect decorative lighting. Design provided photocell controlled lighting contractors to operate all the outdoor lighting.
07/08 - 02/09	**Baton Rouge Metropolitan Airport Taxiway L Extension, East Baton Rouge Parish, LA** **Electrical Engineer.** Michael was responsible for the design that provided the replacement of excessive height roadway lighting fixtures on Interstate I-110 to a lower height compatible with the extension of Taxiway 'L' at the airport. Design required coordination with the requirements of the various Glide Slope Angles expected for the adjacent runway extension.
06/11 - 02/12	**Louisiana State University Exterior Retrofit Lighting** **Electrical Engineer.** Michael was the Electrical Engineer responsible for the retrofitting of approximately 2,000 existing exterior building fixtures including road lighting with light sources to achieve a 50% reduction in operation and maintenance and to aide in personnel security at the main campus. Roadway lighting retrofit was for all of Nicholson Extension and from gate to gate on Highland Road.
10/10 - 06/11	**Camp Minden Phase I LA ARNG Regional Training Institute, Minden, LA** **Electrical Engineer.** Michael responsible for the design of primary electrical distribution system including the Central Plant electrical design, emergency generator system/distribution. Fiber backbone underground communication system / distribution. Roadway and vehicle parking lighting for the Training Site.

16. STAFF EXPERIENCE:



Firm Employed By: DRMP, Inc.					
Name	**Jim Highland, PE**			Years of Relevant Experience with this Employer	23
Title	Traffic Division Leader			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS / 2002 / Civil Engineering		
Active Registration Number/State/Expiration Date			PE No. 68240 / FL / 02-28-2027		
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Electrical Design Services			

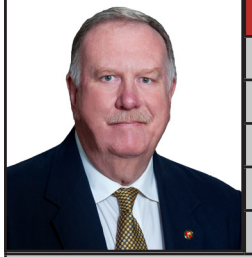
For these contracts, Jim will design and implement efficient **roadway lighting systems** to enhance visibility and safety for motorist and pedestrians. He will assess lighting requirements, **select appropriate fixtures**, and develop plans that comply with regulatory standards and energy efficiency guidelines. By optimizing illumination, Jim will improve nighttime driving conditions and overall traffic safety. Jim has managed various contracts for municipalities and Florida Department of Transportation throughout his 20 year career. His experience in traffic engineering design has included technical engineering analysis, **safety design and studies**, **design of minor intersection reconstruction**, signalization plans, **lighting plans and intelligent transportation systems**. He has experience performance traffic engineering studies, including signal warrants, midblock pedestrian crossing warrants, queue analysis, and analyzing traffic operations for intersections and corridors.

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).
10/18 - 06/23	**Wekiva Parkway Section 8 Interchange Design-Build, The Lane Construction Corporation for FDOT District Five, Seminole County, FL** **Traffic Engineer of Record.** Jim served as the Traffic Engineer of Record for the design and construction of 2.63 miles of limited access toll road starting from Orange Boulevard to east of Rinehart Road. This $263.3 million project includes a new system to system interchange that connects I-4, SR 417 and SR 429 as well as accommodates future express lanes. The project includes 20 new bridges and two bridge widenings. Bridge types include a combination of single and multi-span bridges, concrete Florida-I Beams and steel plate girders. The design-build team's approved interchange alternative technical concept improves operations and safety during and after construction, while reducing overall impacts and long-term maintenance costs. Other project design elements include complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems, landscape, geotechnical, tolling and surcharge areas to consolidate deep muck.
06/07 - 12/17	**SR 589 (Suncoast Parkway 2) from US 98 to South of W. Grover Cleveland Boulevard (MP 54.7-63.3), Florida's Turnpike Enterprise, Hernando and Citrus Counties, FL** **Lighting Engineer of Record and ITS QA/QC.** Jim served as Lighting Engineer of Record and ITS QA/QC for plans at the SR 589 and US 98 Interchange in support of the design of approximately nine miles of roadway. The overall project was a new limited access highway to extend the Suncoast Parkway. The complete design included plans for roadway, drainage, bridge, signing and pavement markings, signals, lighting, right-of-way mapping and environmental permitting. Overall, ITS Concept of Operations, design and plans included new gigabit Ethernet communications with supporting field installations of dynamic message signs (mainline and arterial), CCTV Camera sites, vehicle detection systems, travel time systems (RFID and bluetooth) and highway advisory radio systems. Work included designing electrical services with automatic transfer switches and permanent generator backup for all field devices. Wiring and fiber splicing diagrams, equipment details and specifications were developed as part of this project.

Jim Highland resume continued

06/16 - 12/21	**SR 91 (Florida's Turnpike Mainline) Widening from SR 50 Interchange to Minneola Interchange (MP 273-279), Florida's Turnpike Enterprise, Orange and Lake Counties, FL** **Lighting Engineer of Record and ITS Quality Reviewer.** Jim was responsible for the $162.3 million widening of six miles of SR 91 from a 4-lane to 8-lane limited access facility. The project included a Public Meeting, extensive coordination with local agencies and presentations to County Commissioners and City Councils along with the development of Interlocal Agreements. The design consisted of 6.5 miles of roadway reconstruction including two interchanges, phased maintenance of traffic including a diversion for the length of the project limits, and two roundabouts along CR 455 adjacent to an overpass structure. The structural design effort was from the concept stage through final design for all structural elements on this project which included the replacement of the twin mainline bridges over Jones Road and Old Highway 50, the replacement of the CR 438 and CR 455 bridges, the replacement of the West Orange Trail pedestrian bridge and the addition of a new bridge to convey Fosgate Road over the mainline. The most significant project challenge was the structural design to accommodate traffic control. This required the extensive use of temporary walls and the design of temporary bridges to convey mainline traffic at the three bridge sites. Plans included all electronic tolling facility toll gantries, roadway, drainage, utility coordination, signing and pavement markings, temporary traffic control, structures, lighting, intelligent information systems, environmental permitting and surveying. The project also included the purchase of right-of-way for ponds only. This project is currently in construction.
04/18 - 02/20	**SR 528/SR 436 Interchange Improvements and SR 528 Widening from SR 436 to Goldenrod Road (Contract#528-143), Central Florida Expressway Authority, Orange County, FL** **Lighting Engineer of Record** for the reconstruction of the SR 528/SR 436 interchange and widening of SR 528 from 4-lanes to 6-lanes with an auxiliary lane eastbound to Goldenrod Road and westbound to Conway Road. This project includes construction of seven new bridges using a mix of steel box girders and concrete Florida-U Beams as well as the replacement of one box culvert. This project also involved extensive coordination with the Greater Orlando Aviation Authority and the Federal Aviation Administration as this interchange serves as the north entrance and exit to the Orlando International Airport. Other project design elements included complex maintenance of traffic, drainage design, permitting, signing and pavement marking, lighting, signalization, intelligent transportation systems and geotechnical analysis.
01/18 - 01/19	**Ramp K Improvements (SR 528 Westbound Exit Ramp to Universal Boulevard/Orangewood Boulevard) (MP 1.9), Florida's Turnpike Enterprise, Orange County, FL** **Lighting Engineer of Record.** Jim was responsible for the delivery of this $648,000 project for the addition of a second right-turn lane on Ramp K (Westbound SR 528 exit ramp) at the Universal Boulevard Interchange. The addition of the right-turn lane increased the capacity of the ramp and provides access from SR 528 (Beachline Expressway) to Universal Boulevard and the International Drive corridor. The addition of the right-turn lane included utility coordination and design, preparation of construction plans for roadway, drainage, signing and pavement markings, lighting, signalization, and structures.
05/20 - 05/21	**SR 538 (Poinciana Parkway) Capacity Improvements from Ronald Reagan Parkway to Cypress Parkway Design-Build (Contract#538-165), Central Florida Expressway Authority, Osceola County, FL** **Lighting Engineer of Record** for this $92.6 million design-build project that widens SR 538 from a 2-lane undivided roadway to a 4-lane divided expressway for seven miles. This project includes the design of new bridges over the Reedy Creek Mitigation Bank, Marigold Avenue and KOA Street using Florida-I Beams and founded on prestressed concrete piles. The bridge over the Reedy Creek Mitigation Bank is over a mile long, designed to minimize environmental impacts and has minimum vertical clearance that allows the safe passage of wildlife below. The project also included over two miles of sound walls, drainage, environmental, permitting, signing and pavement markings, intelligent transportation systems, lighting, all-electronic tolling and utility upgrades for the Toho Water Authority. The design-build team's innovative designs included a revised pile configuration that saved $5 million in project costs.

16. STAFF EXPERIENCE:



Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**Bryan Harmon, PE (Part-Time)**			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 No. 22595 / LA / 03-31-2027		
Year Registered	1987	Discipline	Civil, Environmental Engineering		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Hydraulics & Drainage Design		

For this contract, Bryan will lead the **hydraulic engineering and drainage design 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).
01/13 - Ongoing SECTION 17 PROJECT	**I-49 South: US 90 & Ambassador Caffery Interchange, Lafayette Parish, (H.002868)** **Project Engineer.** Bryan is the lead drainage design engineer for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. He is responsible for the subsurface and open ditch drainage design of a 4-tiered interchange, 8 lane mainline, 2-lane one way frontage roads and U-Turns. He also is responsible for coordinating the frontage road extensions and interchange alternative design for future/interim condition implementation.
05/20 - Ongoing SECTION 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.
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.
04/19 - 11/19 SECTION 17 PROJECT	**Residential and Parish-Wide Traffic Calming Policies and Procedures Manual, Ascension Parish, LA** **Project Engineer.** Bryan worked with Robbie Lear in an effort to develop a Traffic Calming Manual to provide the administrative procedures needed to evaluate and implement traffic calming measures and establish guidelines for their installation. He compiled alternatives into "cut sheets" with advantages and applications tabulated for each. He also assisted the client with developing a permitting procedure.

Bryan Harmon resume continued

03/13 – 07/22	**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	**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.
05/21 – 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.

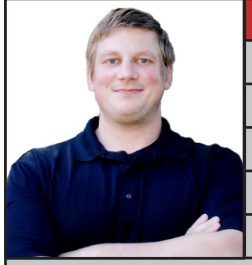
16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name	**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 No. 686 / LA / 03-31-2027		
Year Registered	2018	Discipline	Surveying		
Contract Role(s)/Brief Description of Responsibilities		Hydraulics & Drainage Design			

Gage has 11 years of experience in **hydrology and hydraulics modeling, site investigation, and project management.** 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 (H.009300)** **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.					
Name	**Steve Gilliam, PE**			Years of Relevant Experience with this Employer	1
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization			BS / 2015 / Civil Engineering		
Active Registration Number/State/Expiration Date			PE No. 46515 / LA / 09-30-2026		
Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Hydraulics & Drainage Design			

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

Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
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)** **Project Engineer.** Steven designed the proposed drainage systems for the surface streets within the project corridor. This includes HydroWIN calculations for subsurface systems, drainage pump plan profiles, and design drainage maps.
01/23 - Ongoing	**Hooper Road Widening (LA 3034 - LA 37), East Baton Rouge Parish, LA (H.009300)** **Project Engineer.** Steven prepared the existing drainage map and designed the proposed drainage for this project. The design includes both open ditch and subsurface drainage streets. He prepared HEC-RAS models, HydroWIN calculations, drainage plan profiles, the drainage report, and both existing and design drainage maps.
02/23 - Ongoing	**Enterprise Boulevard Extension, Lake Charles, County, LA** **Design Engineer.** Waggoner was retained by the City of Lake Charles to perform engineering, surveying, bidding assistance, and construction administration. The project consists of extending the existing four-lane boulevard section of Enterprise Boulevard northward on a new alignment from its current intersection at Katherine Street to an intersection on N. Goos Boulevard near Woodring Street, widening N. Goos Boulevard northward to its intersection with Fitzenreiter Road, and widening Fitzenreiter Road eastward to its intersection with N. Simmons Street. The project also includes the addition of a bike path to the Riverside Park Complex consistent with the City of Lake Charles Bicycle and Pedestrian Master Plan.
03/22 - Ongoing	**Nail Road Extension - Polk Lane to Center Hill Road, DeSoto County, MS** **Review Engineer.** This project encompasses preliminary engineering design and bid documents for two miles of a new two-lane rural roadway, three-lanes at Polk and Center Hill for turn lanes, and five-lane earthwork on Nail Road from Polk Lane to Center Hill road.
04/21 - 08/23	**MoveBR Sherwood Forest Extension, Baton Rouge, LA** **Lead Designer.** Steven's role included civil design, site grading, drainage design, and utility coordination. The project included a new two-lane highway, intersections, and wetland mitigation. (previous experience)
01/19 - 02/20	**Eagle Bend Subdivision, Livingston Parish, LA** **Lead Designer.** For this 34-lot development, Steven's role included civil design, site grading, drainage design, and utility coordination for the subdivision. The project included a re-route of a minor drainage artery, required detention basin, and assuring streets and parking met Parish standards. (previous experience)

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 No. 36015 / LA / 03-31-2027		
Year Registered	2011	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Utility Coordination			

Joshua will lead 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	**Joshua Gonya, PE**			Years of Relevant Experience with this Employer	2
Title	Senior Bridge Design Engineer			Years of Relevant Experience with Other(s) Employers	15
Degree(s)/Years/Specialization			BS / 2008 / Civil Engineering / Structures		
Active Registration Number/State/Expiration Date			PE No. 40859 / LA / 09-30-2026		
Year Registered	2016	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Structural Design Services			

Joshua is a licensed **Professional Engineer** and **NHI-Certified Bridge Inspector** with extensive experience in **civil and structural engineering**. His expertise includes the design of **prestressed and reinforced concrete, steel superstructures, foundations,** and **sign trusses**, and he is proficient in national and state standards including **AASHTO, LADOTD,** and **ACI**. Joshua will provide **structural design services** ensuring conformance with **LADOTD's Bridge Design & Evaluation Manual**. He will also support coordination with the hydraulics and roadway teams to integrate structure-specific needs into the overall project design. Joshua is proficient with **OpenBridge, AASHTOWare BrR, StaadPro**, and **MicroStation**, ensuring efficient and accurate structural modeling and plan production.

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).
03/12 - Ongoing	**Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA (12-CS-HC-0060)** **Bridge Designer.** Joshua is performing bridge design for this project. Waggoner was contracted by the East Baton Rouge Parish Department of Department of Transportation and Drainage through the MOVEBR Program to design the extension of Jones Creek Road from the existing Tiger Bend Road intersection to a new terminus point on Airline Highway. The project includes a 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 ROW mapping, and stormwater detention ponds to control outfall channel levels.
05/14 - 05/15	**Essen Lane over Wards Creek Bridge Widening, LADOTD, Baton Rouge, LA** **Bridge Design Engineer.** Joshua was responsible for initial bridge evaluations and widening of the existing Essen Lane bridge over Wards creek. This project involved utility relocations, extending and matching existing substructures, extending, and matching existing slab span bridge elements. The bridge was evaluated in all temporary structural layouts with temporary traffic conditions.
11/23 - Ongoing	**Highway 18 Grade Separation, Phase A and Phase B Design, Rankin County, MS** **Senior Bridge Engineer.** Waggoner was contracted by Rankin County to provide design and development of construction plans to convert an at-grade CPKC railroad crossing to a grade-separated crossing, with Hwy 18 overpassing the railroad. Joshua is providing bridge design and plan development for two new 1,300 ft. long parallel PPC FIB girder bridges to replace an at-grade railroad crossing on Highway 18 in Brandon, MS. This includes bridge piers founded on pile-supported footings and concrete crash walls near the railroad, constructed in phases to allow for the continued passage of traffic along Hwy. 18. Joshua has performed the structural analysis and design in accordance with all applicable design codes (AASHTO LRFD Bridge Design Specifications and MDOT Bridge Design Manual and Memos).

Joshua Gonya resume continued

2024	**S. Campus Drive over Corporation Canal, East Baton Rouge Parish, LA** **Bridge Engineer.** Josh was the lead bridge engineer and load rating engineer for this project. He developed load rating procedures, completed calculations, provided summary reports, and recommended any closures or postings as necessary. Waggoner's scope of work involved a comprehensive evaluation of the existing lightweight precast concrete slab bridge, which is supported by a reinforced concrete cap and timber piling foundation. The project included an in-depth structural assessment to determine the bridge's current condition and load-carrying capacity. Advanced load rating techniques were employed to evaluate the performance of the precast slabs, reinforced cap, and timber piles under various loading scenarios, ensuring compliance with safety and regulatory standards.
2016	**St. Joseph Abbey Bridge, Private, St. Benedict, LA** **Bridge Engineer.** Josh was responsible for the inspection, modeling, and load rating of a private bridge for the assessment of damage by flooding and consideration of its posting load. This bridge was damaged by a large rain event carrying debris down the river. Josh compiled a report to clarify what limits need to be placed on the bridge, and recommended both repairs and maintenance that would allow the bridge to remove its load posting signage.
05/18 - 05/20	**Worthsville Road over Tracy Ditch Bridge Replacement, Greenwood, IN** **Project Manager and Lead Designer.** Joshua was the project manager and lead designer. He completed the design of a 72'-6" single-span, Hybrid Bulb-Tee Beam bridge to replace the existing three-sided culvert over Tracy Ditch. Bridge Hydraulic design was completed to size the bridge and provide Q100 roadway serviceability. The bridge was designed to accommodate phased construction so that one lane of traffic could be maintained in each direction during construction. The end bents and bridge piling were spaced and designed to span an existing sanitary force main that could not be relocated. The bridge cross section includes four travel lanes, striped median, two raised sidewalks, and bridge railing.
05/19 - 08/20	**SR 15 over Eagle Creek Bridge Replacement, Kosciusko County, INDOT, Kosciusko County, IN** **Project Manager and Lead Designer.** Joshua was the project manager and lead designer. He completed the design of a custom three-span slab superstructure supported by integral end bents and interior open pile bents found on steel shell piles. Hydraulic design and site visits concluded that drift and debris are a major factor for Eagle creek and the open pile bents were used in order to minimize the amount of drift present at the structure. The bridge was designed to accommodate phased construction so that one lane of heavy truck traffic could be maintained at all times during construction. This bridge was in an urban area and required a large effort for utility coordination and local business coordination.
08/18 - 07/19	**SR 3 over Willow Creek Rehabilitation, INDOT, Allen County, IN** **Project Manager.** Joshua was the project manager and was responsible for the inspection, assessment, and rehabilitation recommendations of this project. After infield condition assessments he recommended that the project consist of fiber wrapping substructure elements, patching, overlaying the bridge deck, adding channel protection, and traffic management plans.
08/18 - 07/19	**SR 101 over Hamm Ditch Rehabilitation, INDOT, Allen County, IN** **Project Manager.** Joshua was the project manager and he was responsible for the inspection, assessment, and rehabilitation recommendations of this project. After in field condition assessments he recommended that the project consist of deck and coping replacement, patching of the super and sub structures, railing replacement, approach slab replacement, and reconstruction of the roadway to provide a smooth transition over the limits of the project.
08/17 - 09/22	**Central Office Load Rating Contract, INDOT, Statewide, IN** **Project Manager and Lead Load Rating Designer.** Joshua oversaw the rating of 300+ bridges throughout the state of Indiana. Some notable ratings include curved post-tensioned segmental, curved steel continuous girder, cold bent steel boxes, steel trusses, precast arches underfill, steel beam bridges, slab spans, and typical continuous prestressed beam bridges. Joshua also provided support in the rating of many steel bridges inaccurately not rating, specifically assisting with the issue of Lateral Torsional Buckling in the negative moment region for a steel girder bridge. These ratings included new design ratings and added deterioration ratings as well as specific investigations and overrides of the preferred rating software (AASHTOware BrR).

16. STAFF EXPERIENCE:

Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
Name	**Andrew Windmann, PE**		Years of Relevant Experience with this Employer	2
Title	Senior Bridge Design Engineer		Years of Relevant Experience with Other(s) Employers	13
Degree(s)/Years/Specialization		BS / Civil Engineering / 2010		
Active Registration Number/State/Expiration Date		PE No. 39042 / LA / 09-30-26		
Year Registered	2014	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Structural Design Services		

Andrew is a licensed civil engineer with over 15 years of experience in bridge design with a track record of delivering successful infrastructure projects. His experience includes **13 years with LADOTD**, as **an Assistant Bridge Design Administrator (2021–2023),** where he managed a $240 million statewide bridge program, overseeing planning and design for **rehabilitation and replacement** projects. Andrew will serve on **structural design services** ensuring conformance with **LADOTD's Bridge Design & Evaluation Manual**. His deep understanding of LADOTD Bridge Design policies and LADOTD project delivery procedures will allow him to effectively manage the **accelerated project delivery** in alignment with LADOTD design 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).
01/13 - Ongoing SECTION 17 PROJECT	**I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)** **Bridge Design Engineer.** Andrew is a bridge design engineer for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. He is responsible for the construction support services involving RFI's and contractor proposals related to the new overpass bridge.
03/13 - 12/19	**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)** **Lead Bridge Design Engineer.** Andrew served as one of two lead bridge design engineers on this project that included the rehabilitation and widening of six bridge structures (three unique sites) along the I-10 mainline. The scope of this project included the initial assessment of each bridge to provide recommendation on widening versus replacement, while factoring in current condition, load carrying capacity, and feasibility of construction. During Stage 3 of the project, Andrew led the structural team, ensuring the design of every component and detailing of over 120 plan sheets were performed with great quality following LADOTD's QC/QA plan. Structural components included concrete decks, skewed PPC girder superstructures (AASHTO-girders), pile supported bent caps, column bents supported on pile footings, and drilled shafts. Andrew also provided construction-related engineering services throughout the 3.5-year construction time-frame. Services included fabrication drawing review, responding to contractor RFIs, and contractor proposals, as well as reviewing required contract submittals.
2016 - 2022	**I-10: LA 328 to LA 347 Widening Project, St. Martin Parish, LA (H.010601) 2016-2022** **Bridge Design Engineer.** Andrew served as the lead bridge design engineer on this project that included the replacement of two existing mainline bridges over an abandoned railroad and local road with at-grade I-10 roadway and a singular new bridge allowing the local road to overpass the interstate. Initial work on this project included the structure layout (type, size, and location) of the new overpass structure to ensure adequate horizontal and vertical clearance were provided. Structural components included concrete deck, skewed LG-girder superstructures pile-supported bent caps, column bents supported on pile footings, and columns supported on drilled shafts. Andrew also provided construction-related engineering services throughout the 3-year construction time frame. Services included fabrication drawing review, responding to contractor RFIs and contract proposals, as well as reviewing required contractor submittals.

Andrew Windmann resume continued

5/23 - Ongoing	**Carroll Avenue over Middle Creek Colyell Creek, Livingston Parish, LA** **Project Manager/Bridge Design Lead.** Andrew coordinated the multidisciplinary effort to deliver the bridge replacement project, including all necessary engineering services, survey services, and environmental services. He also served as the technical lead, verifying the design and directing the creation of the construction plans for the new bridge structure. Waggoner was contracted by LADOTD to provide preliminary and final engineering and plan preparation to replace a 62-foot by 20-foot railcar bridge with a new 24-foot by 80-foot cast-in-place slab span bridge. The new bridge utilizes the Off-System Slab Span standard details for the proposed clear width. Waggoner also completed road and drainage design, bridge hydraulic and scour impact analyses, topographic survey, property survey, and preparation of right-of-way (ROW) maps all while adhering to rigorous quality control measures.
5/23 - Ongoing	**Hood Road over Middle Colyell Creek, Livingston Parish, LA** **Project Manager/Bridge Design Lead.** Andrew coordinated the multidisciplinary effort to deliver the bridge replacement project, including all necessary engineering services, survey services, and environmental services. He also served as the technical lead, verifying the design and directing the creation of the construction plans for the new bridge structure. Waggoner was contracted by LADOTD to provide preliminary and final engineering and plan preparation to replace a 92-foot by 19-foot timber trestle bridge with a new 24-foot by 120-foot cast-in-place slab span bridge. The new bridge is entirely in a 420-foot radius curve on a new alignment that improves existing undesirable geometry in the roadway. Our team has performed the design and detailing for this non-standard case that meets all current LADOTD and AASHTO requirements. Waggoner also completed road and drainage design, bridge hydraulic and scour impact analyses, topographic survey, property survey, and preparation of ROW maps all while adhering to rigorous quality control measures.
2010 - 2023	**LADOTD Bridge Design Section (Prior Firm) Engineer Intern to Assistant Bridge Design Administrator, 2010-2023).** Prior to joining Waggoner (Sigma), Andrew worked in the Bridge Design section at LADOTD for 13.5 years. Andrew gained a breadth and depth of organizational, procedural, and state-specific knowledge of LADOTD's design requirements, including internal policies, preferences, and intimate knowledge of the current standard plans. Immediately prior to joining Waggoner (Sigma), Andrew served as the state-wide Bridge Preservation program manager whose responsibility it was to understand the overall health of the over 7,000-bridge inventory as well as program bridge replacement, rehabilitation, and repair projects over a rolling eight-year program to spend an annual budget of $240 million. He has a unique understanding of the Department's need for practical design and getting the most efficient bridge replacements completed to get the most use of the insufficient funds received for bridge preservation across the state.
5/23 - Ongoing	**George Jenkins Road over Berrys Creek, Washington Parish, LA** **Project Manager/Bridge Design Lead.** Andrew coordinated the multidisciplinary effort to deliver the bridge replacement project, including all necessary engineering services, survey services, and environmental services. He also served as the technical lead, verifying the design and directing the creation of the construction plans for the new bridge structure. Waggoner was contracted by LADOTD to provide preliminary and final engineering and plan preparation to replace a 120-foot by 13-foot timber trestle bridge with a new 24-foot by 140-foot cast-in-place slab span bridge. The new bridge utilizes the Off-System Slab Span standard details for the proposed clear width. Our team has modified the end bent detail to accommodate the taper-down bridge rail along the approach slab that was necessitated by the proximity of an existing driveway to the proposed bridge. Waggoner also completed road and drainage design, bridge hydraulic and scour impact analyses, topographic survey, property survey, and preparation of ROW maps all while adhering to rigorous quality control measures.
5/23 - Ongoing	**Mitch Road over Peters Creek, Washington Parish, LA** **Project Manager/Bridge Design Lead.** Andrew coordinated the multidisciplinary effort to deliver the bridge replacement project, including all necessary engineering services, survey services, and environmental services. He also served as the technical lead, verifying the design and directing the creation of the construction plans for the new bridge structure. Waggoner was contracted by LADOTD to provide preliminary and final engineering and plan preparation to replace a 78-foot by 26-foot timber trestle bridge with a new 24-foot by 100-foot cast-in-place slab span bridge. The new bridge utilizes the Off-System Slab Span standard details for the proposed clear width and skew. Waggoner also completed road and drainage design, bridge hydraulic and scour impact analyses, topographic survey, property survey, and preparation of ROW maps all while adhering to rigorous quality control measures.

16. STAFF EXPERIENCE:

Firm Employed By: Vectura Consulting Services, LLC					
Name	**Sheelagh Brin Ferlito, PE, PTOE**			Years of Relevant Experience with this Employer	10
Title	Principal			Years of Relevant Experience with Other(s) Employers	27
Degree(s)/Years/Specialization			BS/1988/Civil Engineer		
Active Registration Number/State/Expiration Date			PE No. 25383/LA/09-30-2025		
Year Registered	1993	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - ITS & Traffic Engineering | **Meets MPR 4**		

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 volumes 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.
04/18 - 06/21	**US 171 at Boone St. Roundabout, Vernon Parish, LA (H.011909.5-4)** **Project Manager.** Brin reviewed 60 Percent Preliminary Signing and Striping Plans and developed documented comments based on LADOTD Road Design Manual, LADOTD Standard Details and MUTCD. She is also the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction at the intersection of US 171 at Boone Street in Leesville, LA. She coordinated access management issues using aerials, aged traffic volumes and Synchro Software.
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.

Sheelagh Brin Ferlito resume continued

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.
09/17-04/18	**US 11 at US 90 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.
02/17 - 10/17	**Stage 0 Judge Tanner Boulevard at N. Causeway Roundabout Study, St. Tammany Parish, LA** **Project Manager.** Brin developed the safety analyses for a Stage 0 Study for four intersections in the Mandeville area. The study was based on EDSMs VI.1.1.1 / VI.1.1.5 and LADOTD Traffic Engineering Manual Section 20.2. Brin assisted collecting 7-day, 24-hour counts with Classification, turning movement counts for peak periods and speed data for mainlines. She developed signal timing in the PTV Vistro software. The signal timings were then used in Sidra to complete the HCM analyses. Brin provided a quality control review of the traffic report.
06/16 - 09/17	**Stage 0 Roundabout Studies, Lafayette Parish, LA** **Project Manager.** Brin developed sections of a Stage 0 Feasibility Study for roundabouts the conformed to LADOTD EDSMs and Traffic Engineering Manual Section 20.2 at ten intersections in the Lafayette, LA area. Brin, along with Laurence, collected 7-day, 24-hour counts with classification, turning movement counts for AM and PM peak periods and speed data for mainlines. Brin provided a QC review of the Sidra analyses and developed traffic signal timing for 3 intersections for Years 2019 and 2039, AM & PM peak hours and developed a crash analyses as defined in Section 20.2 of TEM. CMF factors were identified for the preferred alternative to predict the number of crashes that could be eliminated. Brin provided a QC review of the final draft.
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.
02/03 - 01/04	**EBR Traffic Signal Systems Phases IV and V, Baton Rouge, LA (SPN 700-17-0172)** Brin was the project engineer for the design of 66 signalized intersections on eight arterials in Baton Rouge which included traffic data collection, traffic signal equipment, pedestrian crosswalk equipment, emergency vehicle and railroad preemption equipment, fiber interconnect equipment as well as traffic signal synchronization. Brin prepared traffic signal construction plans, estimated quantities, and specifications.

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	10
Title	Principal			Years of Relevant Experience with Other(s) Employers	18
Degree(s)/Years/Specialization			BS / 1997 / Civil Engr. | MS / 2006 / Civil Engr. (Transportation focus) | MBA / 2010		
Active Registration Number/State/Expiration Date			PE No. 2990 / LA / 3-31-2026		
Year Registered	2001	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			ITS & Traffic Engineering | **Meets MPR 5**		

As part of the traffic engineering team, Laurence will focus on **conducting traffic studies** and analyzing data related to **vehicle 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).
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.
06/23 – Ongoing	**Monroe Phase 3 SEA, Ouachita Parish, LA (H.011507.1)** Laurence performed the Constraints and Device Location Analysis.
03/21 – 03/22	**Lafayette Regional ITS Architecture Update (H.014513.1)** Laurence completed an ITS System Inventory, identified all existing and future agreements between stakeholder organizations participating in the ITS operations in the Lafayette region, and updated the strategy for maintaining the regional ITS architecture.
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.
04/18 – 12/21	**Roundabout: US 171 at Boone Street, Vernon Parish, LA (H.011909.5-4)** 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 Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.
09/18 – 02/19	**ITS Deployment Systems Engineering Analysis (H.013261.1 I-110)** **Project Manager.** As a sub-consultant, Laurence was the task leader for the Constraints & Alternatives Analysis as well as the Projects & Procurement Strategy portion of the project. The goal of the project was to deploy Close Circuit Television (CCTV) cameras and one Dynamic Message Sign (DMS) along the I-110 corridor from US 190 to US 61. To communicate with the field devices from the Traffic Management Centers (TMCs), installing fiber optics along the I-110 corridor was recommended. The fiber optics also allow communication to the traffic signals at the interchange ramps along I-110 to the TMC.

Laurence Lambert resume continued

03/18 – 06/18	**Shreveport Immediate ITS Phase 2b** **Lead Traffic Engineer.** Laurence was the task leader for Procurement and Alternative Analysis Configuration portions of the Systems Engineering Analysis (SEA) that complied with Code of Federal Regulations (CFR), Title 23, 940.11). The Alternatives Analysis Configuration consisted of analyzing three possible project configurations. The pros and cons of the needed equipment and communication options were documented. This task consisted of a field visit with LADOTD staff to verify fiber optic lines, junction boxes and traffic signal controller types. The Procurement task consisted of investigating the methods of procurement for the deployment project where the procurement options for the pros and cons for each method were documented.
09/16 - 04/17	**H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study, St. Tammany Parish, LA** Laurence was the lead traffic engineer for a 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.
07/14 - 01/17	**FHWA Intersection & Interchange Geometrics: Innovative Design Considerations for All Users, Multiple States** FHWA funded workshops for state Departments of Transportation that were interested in learning more about innovative intersection & interchange design. Laurence presented either part or all the one-day or two-day workshops that included modules on the overall policy and goals of FHWA for these types of innovations, roundabouts, roundabout interchanges, DLTs, DDIs, J-turns / Superstreets, MUT, Thru-turns, quadrant, and the assessment tools (CAP-X) available to compare the measures of effectiveness of each innovation. Each module includes sections on design, traffic operations, safety and multi-modal accommodation Laurence has presented for the Alabama, Kentucky, Ohio, Oklahoma, Massachusetts, Tennessee, and Texas Departments of Transportation under this contract.
03/10 - 11/11	**Stage 0 and 1 Study I-49 Inner City Connector, Shreveport, LA (S.P. No. 700-09-0171)** This 3.5-mile route will connect existing I-49 / I-20 interchange to the proposed I-49 / I-220 interchange. After completing the Stage 0, Laurence was the project manager for the traffic analyses for the EA phase. The total traffic analyses effort included over 30 TransCAD Models, 20 interchanges and 70 intersections. Analyses included signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments at the studied intersections and interchanges. This project included performing both Interchange Modifications Reports (IMRs) and Interchange Justification Reports (IJRs).
08/05 – 10/06	**Shreveport/Bossier City ITS/Bert Kouns Industrial Loop, Shreveport, LA** **Project Manager.** Laurence was in responsible charge of the design for ITS equipment on Louisiana 526 (Bert Kouns Industrial Loop) in Shreveport. The Project included approximately 10 closed circuit television cameras and 16 signalized intersection upgrades. Reviewed systems engineering analysis, plan for communications diagrams, fiber optic allocation diagrams, fiber optic termination diagrams, telecommunication facilities, power services, wireless transmitters and receivers, related conduit and end equipment, general notes, special details, technical specifications, and terrain analyses.
06/09 – 02/10	**Shreveport ITS (Near Term 3A), Shreveport, LA (SPN 737-94-0030)** **Project Manager.** Laurence was in responsible charge of the design of the ITS equipment on a 22-mile stretch of I-220 in Shreveport, including approximately 10 closed circuit television cameras, 4 dynamic message signs, 2 dynamic curve-warning signs and 40 radar vehicle detectors. Project included plan preparation of communications diagrams, fiber optic allocation diagrams, fiber optic termination diagrams, telecommunication facilities, power services, wireless transmitters and receivers, related conduit and end equipment, general notes, special details, technical specifications and terrain analyses. As PM, Laurence was involved in every aspect of this process.
03/06 – 10/06	**New Orleans Regional Transportation Management Center SEA** **Project Manager.** Laurence served as the project manager for the Laurence ITS Design Team that handled the New Orleans Regional TMC project. Laurence provided the Systems Engineering Analysis (SEA) for the operations of the new TMC, which included a conceptual layout of the RTMC data, audio / video, personal computers, and computer equipment including wiring.

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	Project Traffic Engineer			Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization			BS / 2013 / Civil Engineering		
Active Registration Number/State/Expiration Date			PE No. 42074 / LA / 3-31-2026		
Year Registered	2017	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		ITS & Traffic Engineering - Traffic Control Design / Temporary Traffic Signal Analysis and Design			

As part of the traffic engineering team, Reece will be responsible for gathering and evaluating traffic data, including **traffic 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).
02/16 - 12/16	**US 190 Superstreet Task Order, St. Tammany Parish, LA (H.005733.5)** Reece was a team member responsible for the layouts for the US 190 Superstreet signal designs. He created the preliminary plans using CAD software program MicroStation V8i. He aided in the technical design of each intersection. He conducted field inspections to verify locations of existing equipment as well as observing the area for feasible proposed utility locations. He attended project team meetings to discuss the project details as well as the plan-in-hand walk-through.
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.
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.
06/23 – Ongoing	**Monroe Phase 3 SEA, Ouachita Parish, LA (H.011507.1)** Reece performed a field inventory of the ground mounted traffic signal controllers. Reece visited the project site to document the controller type and detection needs at each signalized intersection within the right-of-way.
06/22 – 02/23	**Fiber Management System Data Collection (H.012381.5 ITS)** Reece performed the field observations for 40 sites to verify the ITS FMS and inventory services.
01/21 – 05/21	**I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes, LA (H.013256)** Reece was a member of the subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being installed. Reece was responsible for measuring anticipated construction quantities and producing a cost estimate for said quantities by using LADOTD's Bid Tabulation and Cost Estimating Tool.

Reece Rodrigue resume continued

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.
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.
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.
01/16 – 11/17	**Ochsner Main Campus Traffic Signals, Jefferson Parish, LA** Reece served as a design engineer for the traffic signal plans for the two Ochsner Main Campus access traffic signals with US 90 (Jefferson Hwy). The goal of the design was to implement updated pedestrian timings as well as optimize progression through the US 90 corridor. He reviewed traffic data and assigned time of day coordination timing parameters for the two intersections so that they may be included in the coordinated system west of the intersections. He used TruTraffic to determine the appropriate offset parameters so that vehicles may progress efficiently through the coordinated system. Plans for the two intersections were drafted in the form of LADOTD's latest version of the TSI format. He was responsible for estimating construction quantities using LADOTD's 2016 Spec Item list.
10/16 – 05/17	**Loyola Interchange Modification Request, Kenner, LA** Reece was a team member in the production of an Interchange Modification Report (IMR) for the I-10 at Loyola Dr. Interchange. He was an active member in collecting vehicle travel time data and processing the data. He also aided in collecting vehicle queues at the study intersections. He also assisted in the Vissim model calibration.

16. STAFF EXPERIENCE:

Firm Employed By: Vectura Consulting Services, LLC					
Name	**Kristen Gahagan Farrington, PE, PTOE, RSP1**			Years of Relevant Experience with this Employer	4
Title	Project Traffic Engineer			Years of Relevant Experience with Other(s) Employers	7
Degree(s)/Years/Specialization			BS / 2013 / Civil Engineering		
Active Registration Number/State/Expiration Date			PE No. 42785 / LA / 3-31-2027		
Year Registered	2018	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			ITS & Traffic Engineering - Traffic Study		

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 **layout 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).
05/23 - 07/23	**Morgan City Sidewalks & Shared Use Path, Morgan City, LA (H.013722)** Kristen was the lead engineer as part of a LADOTD Safety IDIQ contract to document if an approach at a signalized intersection met the warrants listed in the Traffic Engineering Manual Sections 3B.2.4 and 3B.2.8 for a pedestrian marked crosswalk. The study also included an evaluation of a mid-block crossing based on the criteria set in Section 3B.2.7 of the Traffic Engineering Manual. The study consisted of vehicular and pedestrian counts, spot speed study, safety analysis and field observations.
04/21 - Ongoing	**Bus Rapid Transit (BRT) Improvement Project, Baton Rouge, LA (CP No. 16 CI-US-0032)** Kristen a project engineer for a traffic design study and traffic signal design of 19 signals along three corridors: Plank Road, 22nd Street and US 190 (Florida Street). Kristen assisted the prime consultant with the safety analysis as well.
08/21 - 04/22	**Downtown to Scotlandville Parkway Trail Safety Enhancement Study, Baton Rouge, LA (H.013267)** Kristen was a project engineer for a design study to evaluate the recommended street crossing treatments of the trail at eight locations. The project consisted of collecting vehicular speed and volume data at the proposed trail crossings. Geometric field checks were also performed to determine if any hazards to pedestrians or cyclists existed. Once the field data was collected and analyzed, appropriate crossing treatments utilizing the FHWA STEP Guide for Improving Pedestrian Safety at Unsignalized Locations were developed that included Rectangular Rapid-Flashing Beacons (RRFB) and Pedestrian Hybrid Beacons (PHB's). Currently, Vectura is developing plans for the PHB's at four locations which will be the first implementation of PHB's in the Baton Rouge area on a state route.
02/20 - 09/21	**MOVEBR College Drive Enhancement Project, Baton Rouge, LA** Kristen assisted with the data collection task 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.
6/19 - 2/21	**US 167 Improvements Stage 0 Elsie Street to Gilbert Street, St. Landry Parish, LA (H.013459)** Kristen served as project manager for a Stage 0 study to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. Environmental impacts and cost estimates were prepared, as well as a benefit-cost analysis of all improvements considered. She was the civil engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis. Designed high-level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. She compiled meeting agenda materials and minutes.

Kristen Farrington resume continued

6/19 - 2/21	**US 167 Improvements Stage 0 Enola Street to Ross Road, Evangeline Parish, LA (H.013460)** Kristen served as project manager for a Stage 0 study of a two-lane road to remove a curvilinear section of US 167 from Enola Street near LA 748, southeast for approximately 1.2 miles. The study compared connecting existing property owners to a new roadway with driveways or intersection of old roadway. Environmental impacts and cost estimates were prepared. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis, as well as a benefit-cost analysis. Designed high-level concept exhibits and a comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes
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 vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project.
03/19 – 11/19	**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.

16. STAFF EXPERIENCE:

Firm Employed By: Vectura Consulting Services, LLC					
Name	**Ronald St. Angelo**			Years of Relevant Experience with this Employer	2
Title	Senior Technician			Years of Relevant Experience with Other(s) Employers	48
Degree(s)/Years/Specialization			High School Diploma / 1975		
Active Registration Number/State/Expiration Date			PE No. 41272 / LA / 3-31-2027		
Year Registered	N/A	Discipline	N/A		
Contract Role(s)/Brief Description of Responsibilities		ITS & Traffic Engineering - Construction Specialist			

Ronald has over 50 years of experience installing all forms of traffic signals during all phases of construction. He has worked across Louisiana with numerous clients on local, state and federally funded traffic signal and ITS equipment projects. His expertise in **LADOTD guidelines and installation standards** will allow him to collaborate with the traffic engineering team with on the **traffic signal installation**, **review of shop drawings**, and **field inspections**.

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).
01/25 - Ongoing	**Bus Rapid Transit (BRT) Improvement Project, Baton Rouge, LA (CP No. 16 CI-US-0032)** **Senior Technician.** Ronnie is the senior technician for providing construction engineering and inspection for the construction of 19 traffic signals along three corridors: Plank Road, 22nd Street and US 190 (Florida Street). This included field inspections, assistance with utility relocations, and shop drawing reviews.
05/23 – Ongoing	**EBR Computerized Traffic Signal, Phase VB, Baton Rouge , LA (H.007160)** **Senior Technician.** Ronnie is part of the team responsible for Construction Engineering and Inspection. Ronnie reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Ronnie with the LADOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
02/03 – 04/23	**Jack B Harper Electrical, LLC, Walker, LA** **Traffic Signal and Construction Technician.** Ronnie specialized in programming traffic signal controls / ITS equipment and troubleshooting construction issues in the field such as utility conflicts and traffic signal issues. He was a project manager for numerous traffic signal related projects and oversaw a team of field technicians for signal related construction projects. He was an estimator for bidding traffic signal / ITS equipment projects. Ronnie worked extensively throughout the state of Louisiana on hundreds of local, state, and federally funded traffic signal / ITS projects, to include major metropolitan areas, such as Greater New Orleans, Baton Rouge, and Lafayette. During this time, Ronnie worked on projects that built intersections from the ground up, to include base / signal installation, signal control electrical installation, and signal termination. Ronnie read and interpreted construction plans to ensure proper installation requirements were met for span wire and mast arm installation. Extensive experience in installing all forms of traffic signals during all construction phases. He also assisted site inspectors with confirming mast arm foundation locations; electrical inspection / reporting; drawing reviews; change requests; and verifying controller data collection and timing checks.
07/75 – 01/03	**East Baton Rouge Traffic Engineering Division** Ronnie was a certified IMSA Level 1 & 2 Technician while employed at the City of Baton Rouge. Ronnie performed numerous construction tasks in relation to traffic signals within East Baton Rouge Parish. Construction included traffic signal poles, signal heads, signal wiring, vehicle detection, traffic signal controller / cabinet power service. In the earlier part of his career, the traffic signal controllers consisted of mechanical parts. As time progressed, the controller evolved to steady-state technology. In addition, Ronnie performed traffic signal tasks related to maintenance after damage from collisions or extreme weather. While employed in the city, Ronnie was tasked with maintaining over 300 signals that included DOTD intersections. Ronnie started his career at the City of Baton Rouge as a Technician, then Traffic Signal Technician, then Foreman and finally a supervisor. Ronnie was also responsible for programming traffic signal controllers while at the City.

16. STAFF EXPERIENCE:

Firm Employed By: Ardaman and Associates, LLC				
Name	**Megan Bourgeois, PE**		Years of Relevant Experience with this Employer	19
Title	Project Engineer / Assistant Branch Manager		Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization		BS / 2006 / Civil Engineering		
Active Registration Number/State/Expiration Date		PE No. 36725 / LA / 03-31-2026 | Traffic Control Supervisor / LA / 6-21-2028 LADOTD Flagger / LA / 8-14-2028 | Certified NHI Drilled Shaft Inspector		
Year Registered	2011	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Geotechnical Engineering		

Megan brings over 19 years of expertise in geotechnical engineering, with extensive experience supporting major **LADOTD bridge and roadway projects** across Louisiana. Her deep understanding of **local soil conditions** has significantly contributed to her proficiency in the geotechnical design of bridge foundation elements. Her technical capabilities include s**hallow foundation design**, **embankment settlement analysis**, and **deep foundation systems** such as piles and drilled shafts. She is well-versed in **LRFD**, **FHWA**, and **GEC design standards**, as well as **slope stability analysis** for embankments and excavations, and the design of earth retaining structures. Megan has led numerous geotechnical investigations and design evaluations, and currently serves as director of the geotechnical and CMT laboratories in Baton Rouge. In this role, she **oversees laboratory operations**, supervises staff, ensures compliance with testing protocols, maintains certifications (including AMRL, CCRL, DEQ, and USACE), and provides training materials to support quality and consistency in testing procedures.

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).
07/23 - Ongoing	**MRB SOUTH GBRL: LA 1 TO LA 30 CONNECTOR: West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA (H.013284) Project Engineer.** The project consists of an Enhanced Planning investigation into SP No. H.013284, MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Megan helped oversee supervision of the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and Electronic Cone Penetration Testing (ECPT). The preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations.
02/20 - Ongoing	**Design Support Services LA 23, Belle Chasse Bridge & Tunnel, Plaquemine Parish, LA (H.004791)** **Project Engineer/Laboratory Director.** Ardaman's scope consists of review and acceptance of all geotechnical services including technical design reports, field documentation, drawings, and RFI's for the P3 Project consisting of replacing the Belle Chasse bridge and tunnel. In addition, Ardaman performs acceptance verification sampling and testing during the construction for soils and concrete. Megan is assisting in review and acceptance of geotechnical services as well as quality control and review of all acceptance verification sampling and testing during construction.
09/18 - 10/18	**Germany Road-Braud Road Roundabout, Prairieville, LA** **Project Engineer.** Megan was responsible for geotechnical site characterization and flexible pavement design and recommendations to support a full reconstruction of the intersection at Germany Road and Braud Road that would convert the existing signal-controlled intersection into a roundabout.

Megan Bourgeois resume continued

07/21 - 01/22	**I-10 Calcasieu River Bridge, Calcasieu Parish, LA (H.003931)** **Project Manager.** Megan was responsible for managing all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 geophysical survey transects. A majority of the soil borings were completed from a barge over deep water, some from a marsh buggy over shallow water and thick marsh grass. Megan also managed and oversaw the laboratory testing program and processing and analyzing of the ECPT and ER data. She also assisted with development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining geotechnical data under a strict deadline to be used in the design of a replacement of the existing I-10 Calcasieu River Bridge with a new structure and improvements to various other interchanges.
04/21 - Ongoing	**Rural Bridge Initiative Phase II, West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA (700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257)** **Project Engineer.** This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast LA which generally ranged in length from 100 to 400 feet, over various size rivers and creeks. Megan is leading the technical reviews pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, construction testing program recommendations, and report preparation in accordance with LADOTD guidelines.
10/15 - Ongoing	**Pecue Lane I-10 Interchange, East Baton Rouge Parish, LA (H.013579)** **Project Manager.** This project consists of twin bridges with MSE wall abutments for both bridges crossing Interstate I-10, a bridge crossing Ward's Creek, and on/off-ramps in south Baton Rouge. Megan is managing all aspects of the project which includes field investigations, laboratory testing, and engineering design. She is responsible for performing analyses including settlement estimates with recommendations for monitoring, driven pile design including down drag considerations, MSE Wall design, slope stability and pavement section recommendations; all completed according to LADOTD standards. She is currently assisting with the field construction monitoring.
10/09 - Ongoing	**I-20 Mississippi River Bridge Review, Vicksburg, MS (H.004646.5)** **Project Manager.** Megan is managing this multi-million dollar, highly technical project focused on investigating movement of the I-20 Bridge in Vicksburg, MS. She leads a highly technical team that includes academia, experts, internationally recognized geotechnical engineers, geohydrologists, instrumentation specialists, and 3-D geotechnical modeling experts. She oversees a comprehensive laboratory testing program where she was responsible for refining the geotechnical site characterization of the bank/bluff area showing evidence of shifting creating movement in the bridge structure. The specialized testing she performs and manages includes x-ray diffraction, x-ray scanning to identify existing shearing planes and stress-reversal direct shear tests to determine true residual angles of critical strata. Megan is also responsible for the geotechnical instrumentation program including vibrating wire piezometers, Casagrande type piezometers, SAA inclinometers, and traditional inclinometers. In addition, Megan conducts seepage and drawdown analyses, slope stability analyses, evaluation of remedial measures including design and evaluation of large foundation structures and developes technically feasible solutions to mitigate ground movement. She also co-authored the geotechnical analysis and design report while currently overseeing the comprehensive monitoring program.
09/18 - 06/19	**Roddy Road at LA 931, Prairieville, LA** **Project Engineer.** Responsible for geotechnical site characterization and flexible pavement design and recommendations to support a full reconstruction of the intersection at Roddy Road and LA 931 (Germany Road) that would convert the existing signal-controlled intersection into a roundabout.
03/25 - Ongoing	**Culvert Replacements, Rapides, Richland, Vernon, Winn, Evangeline, Jackson, St. Landry Parishes, LA (H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5)** **Project Manager.** The project consisted of geotechnical field investigations throughout Louisiana consisting of ten soil borings to depths ranging from 100 to 120 feet, associated laboratory testing and reporting for new box culvert structures. Megan produced soil boring logs and CPT soundings in LADOTD format and developed the data reports.

16. STAFF EXPERIENCE:

Firm Employed By: Ardaman and Associates, LLC					
Name	**Robert Jewell, PE**			Years of Relevant Experience with this Employer	18
Title	Project Engineer / Branch Manager			Years of Relevant Experience with Other(s) Employers	0
Degree(s)/Years/Specialization			BS / 2009 / Civil Engineering		
Active Registration Number/State/Expiration Date			PE No. 38579 / LA / 09-30-2026 | Traffic Control Supervisor / LA / 08-23-2028 LADOTD Flagger / LA / 07-31-2029		
Year Registered	2013	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities			Geotechnical Engineering | **Meets MPR 7**		

Robert serves as the manager of Ardaman's Baton Rouge office and has over **15 years of experience** with design and analyses of countless types of foundations including shallow, embankment settlement analysis, deep foundations (pile and drilled shafts), **LRFD design, FHWA and GEC design**, slope stability (embankment and excavation) and earth retaining structures. He has managed and coordinated many **geotechnical field investigations**, including **shallow and deep borings**, CPT soundings, and performed analyses and prepares design recommendation reports for **LADOTD projects**. Robert has extensive experience in construction phase testing and oversight including **dynamic and static testing**, **pile integrity testing**, **cross hole sonic logging**, **settlement monitoring**, and **geotechnical instrumentation**. In particular, he has over 15 years of experience performing, analyzing, and reporting for **PDA testing**.

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).
07/23 - Ongoing	**MRB South GBRL: LA 1 TO LA 30 Connector, West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA (H.013284) Project Manager.** The project consists of an Enhanced Planning investigation into MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Robert is managing the field program, development of the laboratory testing program, quality control review, and development of an interactive geotechnical database to compile all the soil borings and ECPT. He helped oversee the preliminary engineering analyses which included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. A data report and preliminary geotechnical assessment report were submitted.
07/21-Ongoing	**I-10: LA 415 To Essen Lane on I-10 & I-12 (CMAR), Baton Rouge Parish, LA (H.004100.5)** **Project Manager.** The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles. Robert is currently overseeing all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. Robert helped develop the geotechnical data reports, memorandums, and design reports for this project.
04/21 - Ongoing	**Rural Bridge Initiative Phase II, West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA (700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257)** **Project Engineer.** This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast LA which generally ranged in length from 100 to 400 feet, over various size rivers and creeks. Robert oversees all aspects of engineering analyses pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses and construction testing program recommendations.

Robert Jewell resume continued

09/22-Ongoing	**Evangeline Road and CN Railroad Culvert, St. Charles Parish, LA** **Project Manager.** Ardaman completed the subsurface exploration and geotechnical engineering evaluation for this project. This project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, LA in St. Charles Parish. Robert performed the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.
07/23-Ongoing	**US 371: KCS Railroad Overpasses HBI, Webster Parish, LA (H.012030)** **Project Manager.** The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Robert performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
10/18-11/21	**I-220 / I-20 Interchange Improvement and Barksdale Air Force Base Access Road, Bossier Parish, LA (H.003370)** **Project Manager.** This was a Design Build project which included direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructed an interchange and access road from Interstate 20 in Bossier City, LA. Robert managed and oversaw the preparation of the preliminary design and planning report. He also oversaw the field construction services consisting of PDA monitoring, bi-directional load cell load tests, and settlement monitoring. The PDA program consisted of monitoring PPC piles during initial drive and restrikes to allow for evaluation of setup and early acceptance of pile resistances.
07/15-Ongoing	**I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange), Lafayette Parish, LA (H.004273.5)** **Project Manager.** The project involves the construction of 5 miles of freeway consisting of a 3.5-mile elevated structure from I-10 to the Airport in Lafayette, LA. Robert oversaw the completion of the Phase I geotechnical investigation, which included 116 deep and shallow soil boring, and 15 CPT soundings, and laboratory testing program per LADOTD guidelines. He oversaw the completion of the geotechnical data report and assisted with technical reviews pertaining to selection of design reaches, geotechnical design of pile and drilled shaft foundations, drivability, slope stability, earth retaining structures, settlement analyses and construction testing program recommendations, including an advanced test pile program. He is currently overseeing development of the Phase 2 field and laboratory program for each segment.
04/14-Ongoing	**I-12 to Bush Segment 2, LA 3241 (LA 36-LA435), St. Tammany Parish, LA (H.004435)** **Project Manager.** Robert oversaw and coordinated the geotechnical investigation which included drilling 32 deep soil borings, 10 culvert borings, and 88 shallow roadway borings, sampling, and laboratory testing along the alignment which includes two bridges: LA 435 over Bayou Lacombe Tributary and LA 36 over Bayou Lacombe Tributary 2. He assisted in developing the geotechnical analyses and design recommendation report which included pile foundations for the bridge structures and shallow foundation design for the culverts. Robert oversaw the construction phase which included PDA testing and settlement monitoring.
10/09 - Ongoing	**I-20 Mississippi River Bridge Review, Vicksburg, MS (H.004646.5)** **Project Engineer.** Robert assisted in several aspects of the geotechnical engineering for this multi-million-dollar, high risk, high technical needs, high visibility project consisting of investigating movement of the I-20 Bridge in Vicksburg, MS. This project consisted of a comprehensive laboratory testing program and refinement of the geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. Robert helped managed the field investigations and instrumentation programs, along with review of the field data and engineering reporting.
09/18 - 10/18	**Germany Road-Braud Road Roundabout, Prairieville, LA** **Project Engineer.** Robert was responsible for geotechnical site characterization and flexible pavement design and recommendations to support a full reconstruction of the intersection at Germany Road and Braud Road that would convert the existing signal-controlled intersection into a roundabout.
09/18 - 06/19	**Roddy Road at LA 931, Prairieville, LA** **Project Engineer.** Robert was responsible for geotechnical site characterization and flexible pavement design and recommendations to support a full reconstruction of the intersection at Roddy Road and LA 931 (Germany Road) that would convert the existing signal-controlled intersection into a roundabout.

16. STAFF EXPERIENCE:

Firm Employed By: Ardaman and Associates, LLC				
Name	**Mark Woodward, PE**		Years of Relevant Experience with this Employer	7
Title	Principal Engineer		Years of Relevant Experience with Other(s) Employers	36
Degree(s)/Years/Specialization		MS / 2019 / Risk Management | MS / 1986 / Civil Engineering BS / 1982 / Civil Engineering		
Active Registration Number/State/Expiration Date		PE No. 24206 / LA / 9-30-2027		
Year Registered	1991	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Geotechnical Engineering		

Mark joined Ardaman in 2018 as Principal Geotechnical Engineer, providing oversight and design review for **major foundation elements** across LA, MS, AL, AR, and TX. His expertise includes foundations for dams, levees, **hydraulic structures**, floodwalls, and coastal restoration projects, often involving specialized marine and marsh drilling investigations. Mark retired from the **USACE New Orleans District** as Deputy Chief of the Geotechnical Branch and Dam and Levee Safety Program Manager, where he oversaw engineering, **drilling**, **laboratory testing**, and administrative operations. He brings decades of experience in **ground improvement**, **deep excavations**, **seepage control**, and beneficial use of dredged material.

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 - 01/25	**Rural Bridges Phase I, Claiborne Parish, LA (H.013987)** **Principal Engineer.** The Rural Bridges project initiative consists of replacing many older bridges throughout the State of LA. Mark provided review of the geotechnical design including pile foundations for 3 bridges.
01/19 - 12/23	**Cheniere Spillway and Bridge Replacement, Ouachita Parish, LA (H.008226)** **Principal Engineer.** Mark served as the Principal Engineer for this project which included the replacement of the current damaged spillway and bridge structure in Ouachita Parish, LA.
10/18 - 11/21	**I-220 / I-20 Interchange Improvement and Barksdale Air Force Base Access Road, Bossier Parish, LA (H.003370)** **Principal Engineer.** This Design Build project consisted of direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and an interchange and access road from Interstate 20 in Shreveport, LA. Mark provided quality assurance oversight for this project, reviewing the work during the design and construction phase.
05/18 - 08/19	**I-12 Widening (US 190 to LA 59), St. Tammany Parish, LA (H.011152.5)** **Principal Engineer.** Mark provided technical oversight for this project which included the widening of I-12 in St. Tammany Parish. Ardaman conducted a geotechnical investigation which included 23 deep soil borings, sampling, and laboratory testing along the 3-mile alignment between US 190 and LA 59 for lane widening which included four bridges structures. Mark provided oversight to perform additional soil borings, lab testing and engineering analyses for a retaining wall for one of the bridge abutments.
07/23 - Ongoing	**US 371: KCS Railroad Overpasses HBI, Webster Parish, LA (H.012030)** **Principal Engineer.** The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
05/18 - 09/19	**US 190: LA 437 to Use 190 Business, Phase I, St. Tammany Parish, LA (H.001344)** **Principal Engineer.** Mark provided technical oversight for this project which includes the widening of US 190 to a four-lane boulevard between US 437 and US 190.

Mark Woodward resume continued

05/18 - 07/18	**IMTT Access Road Pavement, Avondale, Jefferson Parish, LA** **Principal Engineer.** Mark served as senior engineer for 2,200-foot-long x 50-foot wide rigid and flexible roadway design for AASHTO loading per LADOTD guidelines, including subsurface exploration and testing, California Bearing Ratio, subbase material and thickness recommendations, wearing course thicknesses, and construction recommendations.
06/16 - 07/16	**Southeast Louisiana Urban Flood Control, Louisiana Avenue Paving, Orleans Parish, LA** **Chief of Structural Design.** Mark served as they key decision maker as Chief of Structural Design, USACE New Orleans, for asphalt or concrete paving, looking at factors such as construction cost, durability, maintenance cycles and costs, constructability, construction duration, etc.
2006	**Homeplace Levee with Ground Improvement, P24: Plaquemines Parish, LA** **Lead Geotechnical Engineer.** In the aftermath of Hurricane Katrina, Mark was assigned to USACE Task Force Guardian as Geotechnical Engineer for Plaquemines Parish, LA to restore levee damage to pre-Katrina conditions. The Homeplace Floodwall had translated due to loading and had to be removed. In order to replace the risk reduction system with an earthen levee, the foundation had to be improved. Using knowledge gained from full scale test section Mark had coordinated pre-Katrina for Deep Mixing. Mark designed ground improvement, reviewed and approved all construction submittals and oversaw construction.

16. STAFF EXPERIENCE:

Firm Employed By: Ardaman and Associates, LLC					
Name	**Jarmon King, PE**			Years of Relevant Experience with this Employer	6
Title	Project Engineer			Years of Relevant Experience with Other(s) Employers	1
Degree(s)/Years/Specialization			BS / 2019 /Civil Engineering		
Active Registration Number/State/Expiration Date			PE No. 49179 / LA / 03-31-2027 | Traffic Control Supervisor / LA / 11-08-2027 LADOTD Flagger / LA / 05-29-2028		
Year Registered	2004	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Geotechnical Engineering			

Jarmon brings over seven years of geotechnical engineering experience serving Ardaman's Baton Rouge office. He oversees and conducts geotechnical investigations and is responsible for preparing **soil boring logs** and analyzing **Cone Penetration Test (CPT) data**. His design experience includes shallow and deep foundations, embankment settlement, **LRFD, FHWA and GEC design**, slope stability, and earth retaining structures. Jarmon also has hands-on experience with **Pile Driving Analyzer (PDA) testing** during construction phases. His broad technical expertise supports a wide range of transportation, commercial, and infrastructure projects in various types of soils.

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).
07/23 - Ongoing	**MRB South GBRL: LA 1 TO LA 30 Connector, West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA (H.013284) Project Engineer.** The project consists of an Enhanced Planning investigation into MRB South GBR: LA 1 to LA 30 Connector, with the objective of constructing a new Mississippi River crossing located between the I-10 and LA 70 River crossings from three proposed alignments. Jarmon helped oversee the field program, development of the laboratory testing program, development of an interactive geotechnical database to compile all the soil borings and ECPT. He helped perform the preliminary engineering analyses included caisson design, driven piles, drilled shafts, embankments, proposed alignment comparisons, environmental concerns, and testing program recommendations. He also assisted in preparation of the Data and Design reports for this project.
07/21 - 01/22	**I-10 Calcasieu River Bridge, Calcasieu Parish, LA (H.003931)** **Assistant Project Engineer.** Jarmon assisted with all aspects of this project pertaining to coordination of fieldwork including 37 deep soil borings, 39 ECPTs and 13 electrical resistivity (ER) geophysical survey transects. Most of the soil borings were completed from a barge, some over a considerable amount of water. Some soil borings were completed from a marsh buggy over shallow water and thick marsh grass. He also assisted with the laboratory testing program, processing and analyzing of the ECPT and ER data, development of a geotechnical database and preparation and submittal of a geotechnical data report. This project consisted of obtaining preliminary geotechnical data under an extremely strict deadline to be used in the design phase of a project that will consist of replacing the existing I-10 Calcasieu River Bridge with a new structure and improvements to various other interchanges.
04/21 - Ongoing	**Rural Bridge Initiative Phase II, West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA (700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257)** **Assistant Project Engineer.** This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast Louisiana which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks. Jarmon assisted in engineering design pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, construction testing program recommendations, and report preparation in accordance with LADOTD guidelines.

Jarmon King resume continued

07/21 - Ongoing	**I-10: LA 415 To Essen Lane on I-10 & I-12 (CMAR), Baton Rouge Parish, LA (H.004100.5)** **Project Engineer.** The project consists of a Construction Management at Risk (CMAR) project which includes widening of the east and westbound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish spanning approximately 2.5 miles. Jarmon co-manages and oversees the engineering analyses pertaining to selection of design reaches, geotechnical design of deep foundations, earth retaining structures, slope stability, soil-structure interaction with existing structures and load testing recommendations. He also helped develop the geotechnical data reports, memorandums, and design reports for this project.
7/23 - Ongoing	**US 371: KCS Railroad Overpasses HBI, Webster Parish, LA (H.012030)** **Assistant Project Engineer.** The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Jarmon performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
06/20 - 11/22	**Nicholson Drive (LA HWY 30) Segment 1: East Baton Rouge Parish, LA (H.002825)** **Assistant Project Engineer.** This project consisted of the reconstruction and widening of a section of Nicholson Drive between the intersections of Brightside Lane and Burbank Drive for the MOVEBR Program. Thirteen shallow soil borings and two deep soil borings were drilled at the subject site and associated laboratory testing was performed. Jarmon oversaw the field investigation and engineering analyses which included pavement and culvert crossing design recommendations in accordance with LADOTD specifications.
10/18 - 06/21	**Chef Menteur Pass Bridge and Approach, Orleans Parish, LA (H.000263)** **Assistant Project Engineer.** Jarmon assisted in the production of soil boring logs and CPT soundings in LADOTD format. He also assisted with the development of the data report.
10/18 - 11/21	**I-220 / I-20 Interchange Improvement and Barksdale Air Force Base Access Road, Bossier Parish, LA (H.003370)** **Assistant Project Engineer.** This was a Design Build project which provides direct access to Interstate I-20 from the Barksdale Air Force Base (BAFB) and constructing an interchange and access road from Interstate 20 in Bossier City, LA. Jarmon assisted with the construction monitoring aspect of the project which included PDA testing and CAPWAP analyses.
03/19 - 07/20	**I-10 Widening (LA 415 to Howard Street), East Baton Rouge Parish, LA (H.004100.5-2)** **Assistant Project Engineer.** Jarmon evaluated the laboratory test results and produced logs for the widening of the East and Westbound lanes, elevated structures, and construction of interchange and ramps on Westbound lanes along I-10 between LA 415 and Howard Street spanning approximately 1 mile. The geotechnical investigation included 58 deep borings and 11 cone penetrometer (CPT) soundings, associated laboratory testing and the preparation of a geotechnical data report.
03/25 - Ongoing	**Culvert Replacements, Rapides, Richland, Vernon, Winn, Evangeline, Jackson, St. Landry Parishes, LA (H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5)** **Project Engineer.** This project consists of geotechnical field investigations throughout LA consisting of ten soil borings to depths ranging from 100 to 120 feet, associated laboratory testing, and reporting for new box culvert structures. Jarmon is assisting in the production of soil boring logs and CPT soundings in LADOTD format and developed the data reports.
09/22 - Ongoing	**Evangeline Road and CN Railroad Culvert, St. Charles Parish, LA** **Project Manager.** Ardaman completed subsurface exploration and geotechnical engineering evaluation. This project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, LA in St. Charles Parish. Jarmon is performing the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.
07/23 - Ongoing	**US 371: KCS Railroad Overpasses HBI, Webster Parish, LA (H.012030)** **Project Manager.** This project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Jarmon is performing the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.

16. STAFF EXPERIENCE:

Ardaman & Associates, Inc.	Firm Employed By: Ardaman and Associates, LLC				
	Name	**Jessica Litt**		Years of Relevant Experience with this Employer	12
	Title	Laboratory Manager		Years of Relevant Experience with Other(s) Employers	0
	Degree(s)/Years/Specialization		BS / 2010 / Biology		
	Active Registration Number/State/Expiration Date		NICET / Generalist, Laboratory No. 141243 / 10-01-2027		
	Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities			Geotechnical Engineering - Laboratory Manager		

Jessica manages Ardaman's AMRL Certified, DEQ Accredited, and USACE-validated laboratory in Baton Rouge, LA, under the direction of Megan Bourgeois, PE. She oversees **laboratory testing operations**, organizes, and schedules testing, trains, develops and supervises five laboratory technicians and ensures quality control across all assignments. Jessica is experienced in **soil mechanics laboratory testing** in accordance with appropriate **AASHTO** and **LADOTD testing protocol**, which includes Soil Classification, Atterberg Limits, Grain Size Analysis, Gradation Testing, Organic Content, Hydrometer Analysis, Moisture Content, Consolidation Testing, Hydraulic Conductivity, pH, Resistivity, Strength Testing (Unconfined, Unconsolidated-Undrained Triaxial, Consolidated-Undrained Triaxial), Direct Shear, Specific Gravity, and Permeability of Granular Soils.)

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).
03/25 - Ongoing	**Culvert Replacements, Rapides, Richland, Vernon, Winn, Evangeline, Jackson, St. Landry Parishes, LA (H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5)** **Laboratory Manager.** Jessica is responsible for managing the completion of a comprehensive laboratory testing program for 100 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis, Hydrometer, Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Jessica entered the laboratory test results into gINT in order to produce the LADOTD soil boring logs.
08/24 - Ongoing	**LA 44 Roundabouts and Widening, Ascension Parish, LA (H.015568.5, H.015569)** **Laboratory Manager.** Oversaw the completion of a comprehensive laboratory testing program for 10 deep and 14 shallow soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Jessica entered the laboratory test results into gINT to produce the LADOTD soil boring logs.
07/23 - Ongoing	**MRB South GBRL: LA 1 TO LA 30 Connector, West Baton Rouge, Iberville, Ascension, and East Baton Rouge Parishes, LA (H.013284) Lab**oratory Manager. Jessica oversaw the completion of a comprehensive laboratory testing program for 18 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Jessica reviewed the consolidation test results and entered the laboratory test results into gINT in order to produce the LADOTD soil boring logs.
07/23 - Ongoing	**IIJA Off-System Bridges, Allen, Beauregard, and Calcasieu Parishes, LA (H.015489, H.015490, H.015491, H.015492)** **Laboratory Manager.** *Jessica* oversaw the completion of a comprehensive laboratory testing program for 10 deep soil borings that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests in accordance with LADOTD guidelines. Ms. Litt entered the laboratory test results into gINT to produce the LADOTD soil boring logs.

Jessica Litt resume continued

07/23 - Ongoing	**US 371: KCS Railroad Overpasses HBI, Webster Parish, LA (H.012030)** **Laboratory Manager.** The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.
10/18 - 06/21	**Chef Menteur Pass Bridge and Approach, Orleans Parish, LA (H.000263.5-1)** **Laboratory Technician.** Jessica assisted with the completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.
09/22 - Ongoing	**Evangeline Road and CN Railroad Culvert, St. Charles Parish, LA** **Laboratory Technician.** Ardaman completed subsurface exploration and geotechnical engineering evaluation. The project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, LA in St. Charles Parish. Ardaman performed the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.
11/15 - 01/21	**Macarthur Interchange Completion Phase 2, Route US 90-Z, Jefferson Parish, LA (700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257)** **Laboratory Technician.** Jessica assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.
04/14 - 03/22	**I-12 to Bush Segment 2, LA 3241, St. Tammany Parish, LA (H.004435)** **Laboratory Technician.** Jessica assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.
04/14 - 05/18	**I-12 to Bush Segment 3, LA HWY. 3241 (LA 435 to LA 40 / 41),St. Tammany Parish, LA (H.004113)** **Laboratory Technician.** Jessica assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content and Visual Classification, Fines Content, Sieve Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Unit Weight, Particle Size Analysis (Hydrometer), and UU Strength Tests.
10/09 - Ongoing	**I-20 Mississippi River Bridge Review, Vicksburg, MS (H.004646.5)** **Laboratory Manager.** Jessica assisted with completion of a comprehensive laboratory testing program that included Atterberg Limits, Moisture Content, Visual Classification, Fines Content, Gradation Analysis, Triaxial Permeability (constant head), Conventional Incremental Consolidation, Organic Content, Particle Size Analysis (Hydrometer), Unit Weight of Undisturbed Samples, and UU Strength Tests.

16. STAFF EXPERIENCE:

Ardaman & Associates, Inc.	Firm Employed By: Ardaman and Associates, LLC				
	Name	**Casey Floyd**		Years of Relevant Experience with this Employer	4
	Title	Drilling Supervisor		Years of Relevant Experience with Other(s) Employers	30
	Degree(s)/Years/Specialization		High School Diploma		
	Active Registration Number/State/Expiration Date		Traffic Control Technician / LA / 9-5-2027 | Traffic Control Supervisor / LA / 9-6-2027 LADOTD Flagger / LA / 6-04-2028 | LA Water Well Driller's License #WWC-212 / 6-30-2026		
	Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities			Geotechnical Engineering - Drilling Supervisor		

Casey has over 30 years of experience drilling in the **LA Gulf Coast Region** including performing **soil borings** (on land and over water), **CPT soundings**, monitor **well installation and abandonment**, and **installation of geotechnical monitoring instrumentation**. He has planned and supervised numerous geotechnical investigation projects in accordance with **LADOTD requirements**. These projects consist of shallow borings and deep soil borings to depths of approximately 300 feet. Casey's experience also includes arranged right of entry, utility locations, site clearing, arranging for police assistance (as required) and traffic control/crew safety, and coordinating between engineering staff and drill crew.

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).
03/25 - Ongoing	**Culvert Replacements, Rapides, Richland, Vernon, Winn, Evangeline, Jackson, St. Landry Parishes, LA (H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5)** **Drilling Supervisor.** This project consists of geotechnical field investigations throughout LA consisting of ten soil borings to depths ranging from 100 to 120 feet. Casey oversaw the field investigation program consisting of 10 deep soil borings in accordance with LADOTD guidelines. He performed site reconnaissance at each location and coordinated the access along with traffic control.
08/24 - Ongoing	**LA 44 Roundabouts and Widening, Ascension Parish, LA (H.015568.5, H.015569)** **Drilling Supervisor.** Casey oversaw the field investigation program consisting of 10 deep and 14 shallow soil borings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control and pavement coring.
07/23 - Ongoing	**IIJA Off-System Bridges, Allen, Beauregard, and Calcasieu Parishes, LA (H.015489, H.015490, H.015491, H.015492)** **Drilling Supervisor.** Casey oversaw the field investigation program consisting of 10 deep soil borings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control and pavement coring.
03/22 - 01/25	**Boudreaux Canal Bridge Replacement, Terrebonne Parish, LA (H.002244.5)** **Drilling Supervisor.** The project consisted of replacement of the existing LA 56: Boudreaux Canal Bridge with a new bridge just west of the center line of the existing bridge. Casey oversaw the field investigation program consisting of 8 deep soil borings and 4 CPT soundings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control and pavement coring. Casey oversaw the completion of one of the soil borings that was performed on a barge.
07/23 - Ongoing	**US 371: KCS Railroad Overpasses HBI, Webster Parish, LA (H.012030)** **Drilling Supervisor.** The project consists of construction of three bridges for US 371 KC Railroad overpasses that replaced two parallel bridges and one standalone bridge. Ardaman performed the geotechnical investigation and engineering analysis for drilled shafts and made advanced test shaft recommendations.

Casey Floyd resume continued

09/22 - Ongoing	**Evangeline Road and CN Railroad Culvert, St. Charles Parish, LA** **Drilling Supervisor.** Ardaman completed subsurface exploration and geotechnical engineering evaluation. The project consists of the installation of two reinforced concrete box culverts (RCBCs) on the north and south sides of the CN Railroad as it crosses over Evangeline Road near Montz, LA in St. Charles Parish. Ardaman performed the geotechnical fieldwork and engineering evaluation including recommendations for site preparation, shoring and bedding recommendations, and pavement design in a final report.
04/21 - Ongoing	**Rural Bridge Initiative Phase II, West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA (700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257)** **Drilling Crew Chief.** This project consists of the replacement of multiple small two-lane bridges throughout rural areas of Southeast LA which generally ranged in length from 100 to 400 feet, mainly over small rivers and creeks. Casey oversaw all aspects of this project pertaining to coordination of fieldwork including 31 deep soil borings. Some of these borings were performed through the middle of bridges and at hard access locations.
03/19 - 07/20	**I-10 Widening (LA 415 to Howard Street), East Baton Rouge Parish, LA (H.004100.5-2)** **Drilling Crew Chief.** Casey helped oversee the field investigation included 58 deep borings and 11 cone penetrometer (CPT) soundings in accordance with LADOTD guidelines, and electrical resistivity imaging along the entire alignment for the widening of I-10 project. He performed site reconnaissance at each location and coordinated the access along with traffic control.
10/18 - 06/21	**Chef Menteur Pass Bridge and Approach, Orleans Parish, LA (H.000263.5-1)** **Drilling Crew Chief.** Casey helped manage and oversee all aspects of an extensive field investigation program which included 37 deep soil borings in accordance with LADOTD guidelines, including borings over 200 feet in over 80 feet deep of high flow water.
07/15 - Ongoing	**I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange), Lafayette Parish, LA (H.004273.5)** **Drilling Supervisor.** The project consists of construction of 5 miles of freeway consisting of a 3.5-mile elevated structure from I-10 to the Airport in Lafayette, LA. Casey managed and oversaw the completion of the Phase 2 Kaliste-Saloom Interchange field investigation program which included 26 deep soil borings and 10 CPT soundings in accordance with LADOTD guidelines. He performed site reconnaissance, coordinated the access along with traffic control and pavement coring.
10/09 - Ongoing	**I-20 Mississippi River Bridge Review, Vicksburg, MS (H.004646.5)** **Drilling Supervisor.** Casey has performed and supervised all aspects of field operations associated with this multi-million-dollar, high technical needs project consisting of investigating the movement of the I-20 Bridge in Vicksburg, MS. Ardaman managed a comprehensive laboratory testing program and refined a geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. To allow for this advanced testing program, it was imperative to obtain high quality undisturbed soil samples in difficult drilling conditions. Casey was instrumental in completing these tasks as well as installing all types of instrumentation to maintain a highly extensive automated monitoring program at the site including vibrating wire piezometers, SAA inclinometers and traditional inclinometers.
10/09 - Ongoing	**I-20 Mississippi River Bridge Review, Vicksburg, MS (H.004646.5)** **Drilling Supervisor.** Casey has performed and supervised all aspects of field operations associated with this multi-million-dollar, high technical needs project consisting of investigating the movement of the I-20 Bridge in Vicksburg, MS. Ardaman managed a comprehensive laboratory testing program and refined a geotechnical site characterization for the bank/bluff where there was evidence of shifting creating movement in the bridge structure. To allow for this advanced testing program, it was imperative to obtain high quality undisturbed soil samples in difficult drilling conditions. Casey was instrumental in completing these tasks as well as installing all types of instrumentation to maintain a highly extensive automated monitoring program at the site including vibrating wire piezometers, SAA inclinometers and traditional inclinometers.

Section 17

I-49 South Ambassador Caffery & US 90 Interchange
H.002868

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.) upgraded existing at-grade intersection on US 90 with a grade separated X-Pattern interchange on Future I-49, including two-lane one-way frontage roads, U-turns, and signalized ramp intersections. (construction plans prepared by Waggoner (formerly Sigma).

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

Project Description:

Waggoner was contracted by East Baton Rouge Parish Department of Transportation and Drainage, in cooperation with the FHWA and LADOTD, to provide NEPA environmental documentation, planning, topographic and property surveying, 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.**

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 eastbound and westbound directions, five foot sidewalks, and a new two-lane **roundabout** at the intersection of Hooper Road and Lovett Road. The s**idewalks 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.

Team Members Involved:

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

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 QLD, QLC, QLB, and QLA 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
- √ Quality Control & Peer Reviews
- √ Road Design During Environmental Process
- √ Traffic Engineering & Design
- √ Surveying Services
- √ Hydraulic Analysis & Design
- √ PP/FP Roadway Design, Plan
- √ Development, Cost Estimate
- √ Special Provisions Write-Ups
- √ Transportation Management Plans
- √ Technical Research & Guidance
- √ Construction Support

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)			
Project Name	**US 171: J-Turns at N. Perkins Ferry Road**	Past Performance Evaluation Category(ies)*		Road, Survey, Right-of-Way
		Firm Responsibility	Prime	
Project Number	H. 010197	Owner's Name	LADOTD	
Project Location	Calcasieu Parish, LA	Owners Project Manager	Trey Jesclard, PE	
Owners Address, Phone, Email	P.O. Box 94245, Baton Rouge, LA 70806 | 225.379.1445 | Trey.Jesclard@la.gov			
Services Commenced by this Firm (mm/yy)	09/2013	Total Consultant Contract Cost ($1,000's)	$145.4	
Services Completed by this Firm (mm/yy)	10/2015	Cost of Consultant Services Provided by this Firm ($1,000's)	$145.4	

Project Description:

This project is a safety project issued as a task order under our Safety Retainer contract with LADOTD. The project included full topographic surveying and **road design to install new J-Turns and associated turn lanes at the intersection of N. Perkins Ferry Road and US Highway 171 north of Lake Charles, LA.**

The project included the following features:

- Addition of a right turn lane on N. Perkins Ferry Road EB to US 171.
- Modifications to the **existing median opening to only allow left turn movements** from US 171 NB onto N. Perkins Ferry Road WB.
- **Addition of a left turn lane** on US 171 SB and median opening 1450' south of the intersection for the **J-Turn**, and shoulder improvements to US 171 NB to accommodate the **U-turn** turning movement.
- **Addition of a turn lane** on US 171 SB 1500' north of the intersection and a single lane ramp to tie back into N. Perkins Ferry Road WB.

Waggoner coordinated with the LADOTD District 07 Utility Coordinator and utility owners to ensure proper depiction of existing utilities.

Topographic Survey / Property Survey & Right-of-Way Maps

- GPS Control Sketch
- Utility Coordination: QL-D and QL-C
- Topo Mapping with INROADS Survey
- Property Survey
- Title Research Reports
- Right-of-Way Maps

Road Design (Preliminary & Final Plans)

- Horizontal & Vertical Geometry
- Typical Sections
- Geometric Details
- Plan/Profiles
- Drainage Design
- Cross Sections
- Permanent Pavement Markings
- Construction Sequencing
- LADOTD Electronic Plans Deliverables and CadConform

Project Relevance:

- √ Project Management
- √ Topographic Surveys
- √ PP/FP Roadway Design, Plan Development, Cost Estimate
- √ Hydraulic Analysis & Design
- √ Utility Coordination
- √ Quality Plan Reviews
- √ Technical Research & Guidance
- √ Construction Support

Team Members Involved:

Robert Lear, Miles Williams, Alex Farr

17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)			
Project Name	**I-49 South: Ambassador Caffery & US 90 Interchange**	Past Performance Evaluation Category(ies)*		Road, Bridge, Traffic, Other (Project Management)
		Firm Responsibility	Subcontractor	
Project Number	H.002868	Owner's Name	LADOTD	
Project Location	Lafayette Parish	Owners Project Manager	Ryan Morvant, PE	
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 708021225.379.1067 I Ryan.Morvant@la.gov			
Services Commenced by this Firm (mm/yy)	1/13	Total Consultant Contract Cost ($1,000's)	Unknown	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)	$1,294.8	

Project Description:

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

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

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

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

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

Team Members Involved:

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

Project Relevance:

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

Waggoner Engineering, Inc.

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, Other (Project Management), Other (SUE)
		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.

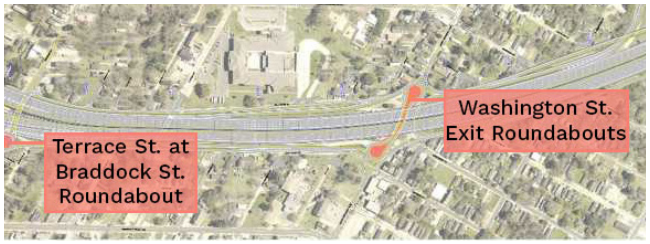
Waggoner also prepared **SUE and Utility Relocation** plans to consolidate utilities into a major duct bank. The duct bank minimizes the need for multiple relocations during project phasing and is a significant cost savings. We participated in utility coordination with LADOTD, EBR Parish, and several utility companies.

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

This project includes four **roundabouts** that are being designed in accordance with **NCHRP 1043 Guidelines.**

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	**Residential and Parish Wide Traffic Calming Policies and Procedures Manual**	Discipline(s)*		Road, Traffic
		Firm Responsibility	Prime	
Project Number		Owner's Name	Ascension Parish Department of Transportation and Engineering	
Project Location	Ascension Parish LA	Owners Project Manager	Daniel Helms, PE, PTOE, RSP21	
Owners Address, Phone, Email	615 E. Worthey St, Gonzales, LA 70737 | 225.450.1320 | daniel.helms@apgov.us			
Services Commenced by this Firm (mm/yy)	04/19	Total Consultant Contract Cost ($1,000's)	$38	
Services Completed by this Firm (mm/yy)	11/19	Cost of Consultant Services Provided by this Firm ($1,000's)	$38	

Project Description:

Waggoner, through its Transportation Division and legacy firm Sigma Consulting Group, Inc., **developed the residential and parish wide traffic calming policies and procedures manual for Ascension Parish, LA**. The purpose of this manual is to provide Ascension Parish residents, community leaders, and Officials pertinent information and standardized administrative procedures for the evaluation and implementation of **Traffic Calming Measures**. While traffic calming measures are typically utilized to retrofit existing roadways and streets, the guidelines in this Manual can also be applied to qualifying new roadway facilities.

The Manual included various traffic calming measures and a toolkit for selecting the appropriate measure for a multitude of situations. These measures included:

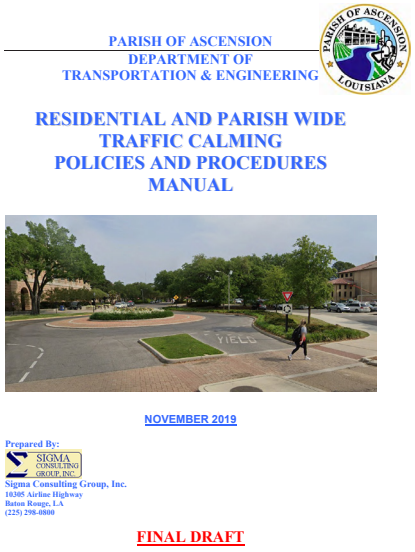
- **Horizontal deflections** such as lateral shifts, chicanes, realigned intersections, traffic circles, and various types of roundabouts
- **Vertical deflections** such as speed cushions, speed tables, offset speed tables, raised crosswalks, and raised intersections
- **Street Width Reductions** such as corner extensions, chokers, median islands, on-street parking, and road diets
- **Routing Restrictions** such as diagonal diverter, full closure, half closure, median barriers, forced turn islands

The manual is based on research from a multitude of resources such as ITE, FHWA, LTAP Local Road Safety Program, LADOTD, City of San Jose STREET SMARTS Traffic Education Program, and the City of Virginia Beach Department of Public Works.

The manual can be found on Ascension Parish Government's website at http://www.ascensionparish.net/wp-content/uploads/2023/10/Asc_Par_Traffic_Calming_Manual.pdf

Project Relevance:

- √ Project Management
- √ Traffic Control Design
- √ Plan Development, Cost Estimate
- √ Technical Research & Guidance



Team Members Involved:

Robert Lear, Alex Farr, Bryan Harmon, Miles Williams

17. FIRM EXPERIENCE:

Firm Name	Vectura Consulting Services, LLC			
Project Name	**EBR Computerized Traffic Signal, PH VB**	Discipline(s)*		CE&I/OV
		Firm Responsibility	Subconsultant	
Project Number	H.007160	Owner's Name	LADOTD	
Project Location	East Baton Rouge Parish, LA	Owners Project Manager	Desmond Sam, PE	
Owners Address, Phone, Email	PO Box 94245 Baton Rouge, LA 70804 | 225.231.4123 | Desmond.Sam@LA.GOV			
Services Commenced by this Firm (mm/yy)	01/21	Total Consultant Contract Cost ($1,000's)		$603.989
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$93.368

Project Description:

Vectura is a sub-consultant to provide traffic signal equipment inspection for 24 traffic signals under the following scope:

- Signal Equipment Inspection (2 visits per intersection), Tracking the Sampling and Testing of required Traffic Signal Materials / Attend and Review Fiber Optic Test Results
- Coordinate Review and Approval of all Shop Drawings
- Provide Traffic Signal Support Services / Troubleshoot traffic signal equipment related problems such as foundation / utility conflicts / Field visits (10 months)
- Assist in preparing Change Orders for DOTD / City Parish (2 Separate Forms)
- Attend Monthly Progress Meetings Assist with Monthly Progress Meeting Agenda & Minutes (10)
- Compile As-built Plans from Contractor
- Final Inspection Field Visit to all intersections / Assist with developing punch list / Final Field Visit verification

Project Relevance:

√ Traffic Engineering
√ Traffic Signal Design

Team Members Involved:

Brin Ferlito, Reece Rodrigue, Laurence Lambert

17. FIRM EXPERIENCE:

Firm Name	Vectura Consulting Services, LLC			
Project Name	**LA 30 Roundabouts at Tanger I-10**	Discipline(s)*		Traffic
		Firm Responsibility	Subconsultant	
Project Number	H.010960.5	Owner's Name	LADOTD	
Project Location	Ascension Parish, LA	Owners Project Manager	Josh Harrouch	
Owners Address, Phone, Email	PO Box 94245 Baton Rouge, LA 70804 | 225.242.4640 | Joshua.Harrouch@la.gov			
Services Commenced by this Firm (mm/yy)	04/17	Total Consultant Contract Cost ($1,000's)		Unknown
Services Completed by this Firm (mm/yy)	12/20	Cost of Consultant Services Provided by this Firm ($1,000's)		$153,294

Project Description:

Vectura designed temporary traffic signal plans that were implemented during the construction of three roundabouts along LA 30 in Gonzales, LA. The project involved replacing three existing signalized intersections with multilane roundabouts along LA 30 at the I-10 Interchange ramps and Tanger Boulevard. Vectura also provided Quality Control review of construction plans.

Project Relevance:

√ Traffic Engineering
√ Traffic Signal Design

Temporary Traffic Signal Design

Vectura performed the following design tasks to develop temporary traffic signal plans:

- Detailed study of sequence of construction plans to determine the optimal traffic signal operation and required traffic signal equipment for each sequence of construction phase
- Reviewed potential access issues for all the impacted driveways / streets along the project area for each sequence of construction phase
- Developed multiple traffic signal timing plans by time of day for each sequence of construction phase to maintain progression along main corridor
- Developed temporary signal plans including pole and span wire layout, signs, striping, power source, signal timings by time of day, vehicle detection, signal head placement, wiring diagram, pole height calculations, clearance calculations, quantities, construction cost estimate
- Coordinated with LADOTD Traffic Section and District Traffic Engineer

Quality Control Review

Vectura 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 Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.

Team Members Involved:

Brin Ferlito, Reece Rodrigue, Laurence Lambert

17. FIRM EXPERIENCE:

Firm Name	Vectura Consulting Services, LLC				
Project Name	**I-110 ITS Deployment SEA**	Discipline(s)*		ITS	
		Firm Responsibility	Subconsultant		
Project Number	H.013261.1-1	Owner's Name	LADOTD		
Project Location	Baton Rouge, LA	Owners Project Manager	Shams		
Owners Address, Phone, Email	PO Box 94245 Baton Rouge, LA 70804 | 225.379.1497 | alaa.shams@la.gov				
Services Commenced by this Firm (mm/yy)	09/18	Total Consultant Contract Cost ($1,000's)		Unknown	
Services Completed by this Firm (mm/yy)	12/18	Cost of Consultant Services Provided by this Firm ($1,000's)		$16.363	

Project Description:

Vectura provided an Alternatives Analysis Configuration and Procurement Analysis as part of a System Engineering Analysis (SEA) for I-110 CCTV Cameras and DMS deployment to comply with Code of Federal Regulations (CFR), Title 23, 940.11.

The alternative analysis consisted of a field visit along the I-110 corridor to examine CCTV and DMS locations. As part of the field visit, drones were flown at the proposed heights of the CCTV's and DMS's to determine if any sight line issues were present. Also included in the site visit was the evaluation of connecting three pump stations and traffic signals to the proposed fiber optic line. Three possible project configurations were developed for this task along with pros and cons of the needed equipment and communication options.

Vectura also investigated the methods of procurement for the deployment project. Procurement options were documented with the identification of the pros and cons for each method.

Project Relevance:

- √ Stage 0 Feasibility Study
- √ Turning Movement Counts
- √ Traffic Analysis
- √ Crash Analysis
- √ Project Management

Team Members Involved:

Brin Ferlito, Laurence Lambert

17. FIRM EXPERIENCE:

Firm Name	Ardaman & Associates, Inc.			
Project Name	**Roddy Road Safety Widening (LA 935 to LA 612), Gonzales, Louisiana**	Discipline(s)*		Geotech
		Firm Responsibility	Subconsultant	
Project Number	18-80-3744	Owner's Name	Ascension Parish Government – Sub to T. Baker Smith	
Project Location	Ascension Parish, LA	Owners Project Manager	Dennis Hymel	
Owners Address, Phone, Email	615 E Worthey St., Gonzales, LA 70737 | (225)450-1200 |			
Services Commenced by this Firm (mm/yy)	09/17	Total Consultant Contract Cost ($1,000's)		Unknown
Services Completed by this Firm (mm/yy)	03/18	Cost of Consultant Services Provided by this Firm ($1,000's)		$39

Project Description:

Ardaman conducted a geotechnical investigation consisting of ten shallow and two deep soil borings and associated laboratory testing for a safety widening along Roddy Road from LA Highway 935 to LA Highway 621 to provide two 12-foot lanes, 4-foot shoulders and a defined side ditch for roadside drainage, as well as the design of various turn lanes at the intersection locations, and a new bridge over Black Bayou. Engineering analyses consisted of providing soil boring logs in LADOTD format, deep foundation analyses, assessment of existing pavement conditions, earthwork considerations, and pavement design.

Project Relevance:

√ Project Management & Support
√ Geotechnical Engineering

Team Members Involved:

Megan Bourgeois, Robert Jewell, Jessica Lit

17. FIRM EXPERIENCE:

Firm Name	Ardaman & Associates, Inc.			
Project Name	**I-12 to Bush – Route LA 3241 (LA 36 – LA 435) Segment 2**	Discipline(s)*		Geotech
		Firm Responsibility	Subconsultant	
Project Number	H.004435	Owner's Name	LADOTD	
Project Location	St. Tammany Parish, LA	Owners Project Manager	Chris Nickel	
Owners Address, Phone, Email	PO Box 94245, Baton Rouge, LA 70806 | 225.379.1133 | Nicholas.Olivier@la.gov			
Services Commenced by this Firm (mm/yy)	04/14	Total Consultant Contract Cost ($1,000's)		$3,197
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$460

Project Description:

As part of the TIMED Program, the project consists of design of a new highway which ties into I-12 at the existing I-12/ LA 434 Interchange (Exit 74) and proceeds northerly along LA 434 for approximately 2.5 miles then leaves the existing highway and proceeds on new alignment until it connects with an abandoned railroad corridor approximately 1.7 miles north of LA 36. The alignment then follows the abandoned railroad alignment north and ties into the intersection of LA 40 and LA 41. The project is divided into three distinct project segments for which Ardaman was on the teams selected for Segments 2 and 3.

Segment 2 consists of an 8-mile alignment between LA 36 and LA 435 including two bridge structures and 8 culvert structures. The field investigation, conducted in accordance with LADOTD specifications, included field reconnaissance including access and gaining rights of entry, completing utility locations, locating/staking boring locations, and developing a plan for the initial mobilization of equipment to the site and mobilization between sites. The project consisted of 32 deep soil borings, 10 intermediate culvert borings, and 88 shallow roadway borings, sampling, and laboratory testing along the alignment. Global Positioning System (GPS) data was collected at each soil boring location along with groundwater level readings.

Soil boring logs were created in LADOTD format. Ardaman also provided geotechnical analyses and recommendations according to LRFD guidelines that included recommended pile capacities, culvert bearing capacities, embankment settlement analyses, and a pile data table. Ardaman also oversaw the pile testing program consisting of dynamic monitoring with PDA for the indicator and monitor piles at the various bridges. Ardaman analyzed the driving system with GRLWEAP the PDA data and issued reports with the pile recommendations based on the field results.

Project Relevance:

√ Project Management & Support
√ Geotechnical Engineering

Team Members Involved:

Megan Bourgeois, Robert Jewell, Jarmon King, Jessica Lit

17. FIRM EXPERIENCE:

Firm Name	Ardaman & Associates, Inc.				
Project Name	**I-20 Mississippi River Bridge Review**	Discipline(s)*		Geotech	
		Firm Responsibility	Prime		
Project Number	H.004646 09-L1049 | H.010603.6 13-3720 | H.010612.6 20-3729 | H.004647.6 22-3746, 22-3753, 24-3707	Owner's Name	LADOTD		
Project Location	Madison Parish, LA	Owners Project Manager	Chris Nickel		
Owners Address, Phone, Email	PO Box 94245, Baton Rouge, LA 70806 | 225.379.1133 | Nicholas.Olivier@la.gov				
Services Commenced by this Firm (mm/yy)	10/09	Total Consultant Contract Cost ($1,000's)		$10,881	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm ($1,000's)		$10,881	

Project Description:

Ardaman conducted a geotechnical study to develop a list of technically feasible remedial alternatives to decrease the potential for ground movements to occur at the site of the I-20 Bridge. Movement of the east abutment of the bridge was first realized in 2001 during an inspection. Over the years Mississippi DOT has retained several consultants who have studied the problem, but no viable solution was identified. Ardaman conducted a comprehensive review of past slope stability evaluations and recommendations. This task was followed by developing a refined geotechnical site characterization plan for the bank/bluff area for further analyses. Drilling operations included obtaining extremely sensitive samples containing prehistoric shear planes from the river via barge and on land, all with extremely difficult access conditions. The drilling program also included installation of geotechnical instrumentation such as Shape Accelerator Arrays, inclinometers, and vibrating wire piezometers. Engineering analyses performed included seepage and drawdown analyses and both equilibrium and finite element numerical modeling slope stability analyses.

As part of the project, Ardaman developed a full slope stabilization design and construction remediation strategy and a monitoring program for the bluff instability and ground movements affecting the existing I-20 Mississippi River Bridge.

Ardaman is currently managing a phase of the project which involves upgrading the entire instrumentation communication system. It also includes gathering and continuously monitoring various types of instrumentation data, inspects of the site and monitoring changes in topography by obtaining periodic survey data.

Project Relevance:

√ Project Management & Support
√ Geotechnical Engineering

Team Members Involved:

Megan Bourgeois, Robert Jewell, Jarmon King, Casey Floyd, Jessica Lit

Section 18

LA 342: Roundabout on LA 347 at LA 742
H.002163

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.) was the lead Road Design Firm for this project.

Completed roundabout at the intersection of LA 724 and LA 342 as part of LADOTD Project H.002163.
(construction plans prepared by Waggoner (formerly Sigma).

18. APPROACH AND METHODOLOGY:

PROJECT BACKGROUND AND UNDERSTANDING

Waggoner understands that the purpose of this project is to provide a safer and more efficient route for the traveling public along US 165 between Deloach Street and White Street in Ouachita Parish, LA. The corridor is heavily traveled and experiences operational and safety challenges due to numerous full-access median openings, closely spaced intersections, and high turning volumes. To address these issues, the project will implement Superstreet improvements, including the addition of J-turns with bulb-outs, new and extended turn lanes, R-Cut intersection conversions, removal of full-access medians, and installation of high-friction surface treatments. The scope also incorporates traffic signal upgrades, optimized signal timings, pedestrian crosswalks, bicycle and pedestrian facilities on the service roads, and modifications to the existing roadway lighting system. By addressing both vehicular and multimodal needs, this project will reduce conflicts, enhance traffic flow, and significantly improve safety for all users along this vital regional corridor.

PROJECT TEAM

The success of the US 165 Superstreet project will be driven by a strong and experienced team. Waggoner has assembled a group of professionals with proven LADOTD experience, supported by Vectura as our traffic and ITS subconsultant to provide specialized expertise in traffic operations and safety analysis. Together, this team brings the leadership, quality oversight, and technical design capabilities necessary to deliver this safety-focused corridor improvement.

Robert J. Lear, PE, LSI | QA/QC Manager – Robert will oversee quality assurance and quality control for this project, ensuring that all deliverables meet LADOTD standards. He brings extensive experience in roadway and safety-focused design. Robert's knowledge of LADOTD processes and his ability to anticipate and resolve design challenges will provide critical oversight to maintain quality and efficiency throughout this project.

Alex Farr, PE | Project Manager, Road Design Lead – Alex will serve as the Project Manager and primary point of contact for LADOTD. He has successfully led roadway, roundabout, and safety improvement projects across Louisiana, including direct collaboration with Robert on multiple projects. Alex's strengths in stakeholder coordination, schedule management, and multidisciplinary team leadership will ensure that the US 165 Superstreet project is delivered on time and within budget.

Sheelagh Brin Ferlito, PE, PTOE | ITS & Traffic Engineering - Brin will oversee all aspects of the ITS and traffic engineering components of the project. She will coordinate with the design team to integrate traffic management solutions, ensuring safety and efficiency are prioritized in all phases of the project.

In addition to Vectura leading the traffic design efforts, the Waggoner team is supported by Ardaman, who will provide targeted support in light pole foundation design to ensure long-term stability and durability. Jim Highland, PE, from DRMP will contribute to Waggoner's electrical engineer, Michael Travis to support for roadway lighting design. Together, our team brings a combined expertise of project management, quality assurance, roadway design, and traffic engineering essential for successfully delivering the US 165 Superstreet improvements to LADOTD.

PROJECT GOALS AND KEY DESIGN ELEMENTS

At the beginning of the US 165 Superstreet project, our team engaged with the LADOTD Project Team to establish clear communication and confirm project objectives. Through this early coordination, several critical design elements were identified, including access management improvements, intersection safety treatments, signal upgrades, and pedestrian accommodations. Addressing these priorities from the outset positions the project for effective risk management, streamlined design, and successful implementation.

Traffic Design: Building on their extensive experience in traffic signal design, operations, and safety improvements, Vectura will lead the traffic effort. Utilizing the 2017 Traffic Report and supplemental traffic study provided by LADOTD, Vectura will develop updated traffic signal timings and signal design plans for the identified intersections along the corridor. This will include creation of a complete traffic signal inventory (TSI), redesign of signals for J-turns and U-turns, upgrades to pedestrian signal equipment, and the removal of outdated signals where required. As part of this process, Vectura will also evaluate the potential implementation of adaptive signal technology to enhance real-time traffic operations and improve corridor efficiency. All designs will be prepared in accordance with the MUTCD, LADOTD Traffic Signal Manual, and applicable LADOTD policies, ensuring that the new signals integrate seamlessly with the proposed Superstreet layout. By applying proven expertise in corridor traffic design, Vectura will ensure that the final system

improves safety, optimizes operations, and enhances mobility for all users along US 165.

The following table provides a summary of the proposed signal treatments at key intersections along the US 165 corridor as part of the Superstreet improvements:

Intersection @ US 165	Signal	Pedestrian Crossing	High Friction Surface Treatment
Renwick Street	Redesign	No	Yes
Louberta Street	Redesign	Yes	Yes
Louberta St. Northbound U-Turn	New	No	No
Louberta St. Southbound U-Turn	New	No	No
Century Boulevard	Redesign	Yes	Yes
East Street	Redesign	Yes	Yes
Ruffin Drive	Redesign	Yes	No
Hadley Street	Removal	No	No
LA 15	Redesign	No	Yes
Pearl Street	New	No	No

Vectura will support LADOTD under supplemental authorization by inspecting the existing LADOTD signal fiber network to evaluate its usability for the advanced controller system. Vectura will assess the condition, connectivity, and communication capacity of the system to determine if it can be integrated into the project's upgraded traffic signal infrastructure. Based on the results, Vectura will provide recommendations for repair, replacement, or enhancement as needed to ensure reliable communications and long-term system performance.

Vectura will also be responsible for the detailed design of U-turns, J-turns, and associated turn lanes throughout the corridor. This work will include evaluating queue lengths, storage requirements, and geometric layouts to ensure each location operates efficiently under projected traffic volumes. By combining signal operations with turn lane and intersection design, Vectura will deliver an integrated traffic solution that enhances safety, improves flow, and supports the long-term success of the Superstreet corridor.

Sidewalk and Drainage Design: Providing safe and accessible pedestrian facilities is a key component of the US 165 Superstreet project. The project corridor is a highly commercial and residential area that also includes several schools—Martin Luther King High School, Wossman High School, and Minnie Ruffin Elementary School—making pedestrian access a vital part of the design. Sidewalk improvements will extend along the US 165 frontage roads from LA 15 to Century Boulevard and from Martin Luther King Jr. Drive to White Street, excluding the US 165/I-20 interchange. These facilities will connect neighborhoods, businesses, and schools, strengthening safety and mobility for all users.

√ **Sidewalk Design** – In accordance with LADOTD's Minimum Design Guidelines, we will design five-foot sidewalks with a two-foot minimum buffer, along with pedestrian crossings at Louberta Street, Century Boulevard, East Street, and Ruffin Drive. These facilities will provide continuous ADA-compliant access throughout the corridor.

√ **Drainage Design** – The majority of the frontage roads are served by open-ditch drainage, which will need to be replaced with subsurface systems to accommodate the proposed sidewalks. This approach will not only improve hydraulic capacity but also minimize right-of-way impacts by reducing the footprint needed for drainage. Particular attention will be given to Youngs Bayou, which crosses the project limits at two locations—a bridge north of East Street and a box culvert north of Hadley Street within a flood hazard area (Pearl Street to Ruffin Drive)—to ensure resilient, flood-safe pedestrian and roadway improvements.

√ **Utility Coordination** – Closing in multiple ditches to install subsurface drainage and sidewalks will require close coordination with utility providers to address relocations, avoid conflicts, and ensure constructability. Early utility identification, location, and coordination will be a critical element in minimizing project delays and managing construction costs.

Lighting Design: The project's lighting design will build upon the recently installed median lighting along US 165. While the system is new and generally in good condition, several light poles may require relocation to accommodate the placement of U-turn and J-turn movements identified in the proposed Superstreet configuration. Our team will evaluate pole locations during design to ensure adequate roadway and intersection illumination is maintained while minimizing relocation costs. Coordination with LADOTD and the electrical utility provider will be essential to implement these adjustments efficiently and preserve compliance with roadway lighting standards. Ardaman will provide geotechnical support for new light pole foundations where relocations are required, ensuring proper foundation design, stability, and long-term performance.

APPROACH AND METHODOLOGY

Scope and Task Development: Immediately after selection, Waggoner will work with the LADOTD Project Manager to develop the contract scope and items necessary to deliver the project. We will work with the project manager to develop the blank man-hour spreadsheet, sheet count, and conceptual delivery schedule. This early coordination ensures that both LADOTD and Waggoner are aligned with respect to project goals, deliverables, and expectations. Once these items are established, independent man-hour estimates will be completed for negotiated fee determination.

Project Management Services: Waggoner will manage this project with a strong emphasis on organization, communication, and accountability. At the outset, we will coordinate with the LA DOTD Project Manager to hold a kickoff

meeting that establishes a clear roadmap for delivery.

This meeting will cover milestone submittals, anticipated review periods, and project procedures, ensuring all parties are aligned from day one. Following the meeting, Waggoner will document key decisions and distribute minutes promptly to maintain a shared record of expectations.

To keep the project moving efficiently, our team will prepare a monthly project schedule and progress update using Microsoft Project. These updates will track both planned and actual completion dates, giving LADOTD clear visibility into progress and upcoming tasks. In addition, we will host regular coordination meetings with LADOTD staff and subject matter experts to discuss status, resolve issues, and adjust schedules as needed. By combining disciplined schedule management with proactive communication, Waggoner will provide the structure necessary to meet deadlines, control costs, and deliver a successful project.

Topographic Survey and Right-of-Way: During our coordination meeting with the LADOTD Project Team, it was noted that an existing survey performed by Lazenby & Associates, Inc. is available for the project corridor. Our team will incorporate this data directly into the design process, reviewing it carefully to confirm accuracy and completeness. If any gaps or additional information are identified, we will determine the need for supplemental survey work to ensure all design elements such as drainage, utilities, and roadway features are fully supported by current and reliable survey data. This approach minimizes duplication of effort while ensuring that the project is based on the most accurate information available.

While right-of-way (ROW) acquisition is not currently anticipated for this project, Waggoner is fully capable of providing this service should the need arise. Our team has extensive experience supporting LADOTD with ROW mapping, legal descriptions, coordination with property owners, and acquisition services. If unforeseen ROW needs are identified during design, we can seamlessly incorporate this effort into the project delivery process, ensuring schedule impacts are minimized and all requirements are handled in accordance with LADOTD standards.

Preliminary and Final Plan Preparation: The preliminary and final plan development process will typically follow the Road Design Tasks for Completion Milestones chart shown as Figure 1-03 in the LADOTD Road Design Manual.

Milestone submittals will be made at the 30% (Geometric Submittal), 60%, 90%, and 100% Preliminary Plan (PP) stages and at the 60%, 95%, and stamped/signed 98% Final Plan (FP) stages. These submittals will include plans and associated calculations as defined in the advertisement. Work will not commence on final plans until Environmental Clearance is received from Federal Highway Administration (FHWA). Design will work in conjunction to ensure the approach roadway and proposed bridge section are compatible, including during intermediate construction stages that will be required.

All required documentation such as review comments and responses, QA/QC certifications, constructability review forms, opinions of probably construction cost (OPCC), and calculations will be submitted with each appropriate delivery milestone.

A final OPCC will accompany the final plan submittal, including all required special provisions and NS-Item specification write-ups.

Key Project Milestones	
Traffic Report	Establish intersection geometric layout along with J-turn and U-turn locations utilizing 2017 traffic report.
30% PP	Geometric Submittal for proposed intersection improvements, J-turns and U-turns.
60% PP	Initiate signal design, preliminary sidewalk layout, and drainage design.
90% PP	Plan-In-Hand Meeting, review design for constructability and ensure no major pitfalls.
100% PP	Address comments from Plan-In Hand Meeting.
Environ-mental Clearance	Complete and proceed with final design and plan development.
60% FP	Finalize signal design and sidewalk plans, provide detailed quantities and cost estimate.
90% FP	Final plan review.
98% FP	Full-sized sealed plans, final QC/QA, final calculations and files, special provisions, and construction cost estimate provided.
100% FP	Project signed by the LADOTD Chief Engineer.

Road And Drainage Design: The LADOTD Minimum Design Guidelines and recommended conceptual layouts will be reviewed and updated as needed to reflect current conditions and project goals. Comprehensive Design Reports will be developed for each functional roadway classification to document design decisions and ensure consistency. The roadway design process will follow the LADOTD Road Design Manual, the AASHTO Green Book (2018), the Roadside Design Guide, the LADOTD Hydraulics Manual, and other accepted LADOTD reference materials. For drainage design, LADOTD's HydroWin software will be utilized as the primary tool for analyzing and designing open ditches, storm drain systems, and cross drains. For pedestrian facilities, the design will be guided by LADOTD's Complete Streets Policy, ADA Accessibility Guidelines, and the AASHTO Guide for Pedestrian Facilities (2021) to ensure safe, accessible, and context-sensitive accommodations are provided throughout the corridor.

The Preliminary Plans phase will focus on establishing the core design framework, including horizontal and vertical geometrics, typical sections, drainage design, cross sections, and the conceptual sequence of construction components. Particular attention will be placed on the construction sequencing, as maintaining traffic flow throughout this highly traveled corridor will be critical to the project's success. Phasing concepts will be developed early to demonstrate how traffic can be safely accommodated while major elements such as drainage improvements, turn lane construction, and intersection modifications are advanced. The Final Plans phase will then build upon this foundation by providing complete design details, refined construction phasing, and full quantity computations, ensuring the project is ready for bidding and successful implementation.

Electrical Design: Waggoner and DRMP will provide electrical design services to support the roadway lighting modifications along US 165, including plan development, technical specifications, illumination analysis, and construction cost estimating. Our team will coordinate closely with LADOTD and utility providers to review existing conditions, locate and evaluate current lighting equipment, and determine where relocations or upgrades are necessary to accommodate the proposed Superstreet configuration. Meetings and site inspections will be conducted at key milestones to verify field conditions and ensure all design decisions meet LADOTD and national electrical standards.

The design effort will deliver a complete set of construction documents that include lighting layouts, service point connections, safety switches, and illumination calculations. Plans will be prepared in accordance with LADOTD Illumination and Electrical Standards, IES guidelines, NFPA 70, and the AASHTO Roadway Lighting Design Guide. Submittals will progress through the 60%, 95%, and 100% stages, including construction cost estimates, photometric analyses, and Arc Flash/Short Circuit hazard reports. This approach ensures a safe, durable, and energy-efficient lighting system that fully supports the operational and safety goals of the corridor.

Waggoner will provide construction-related engineering services for the roadway lighting improvements, ensuring that the design intent is carried through into field implementation. This includes participation in the pre-construction conference, review of shop drawings and equipment submittals, preparation of operation and maintenance manuals, and verification of as-built plans. Our team will also perform field inspections to monitor installation of poles, conduits, and lighting systems, and will witness required testing to confirm compliance with LADOTD standards. Pre-final and final inspections will be conducted in coordination with LADOTD and the contractor, with detailed reports and punch lists issued to ensure all deficiencies are addressed.

Through proactive involvement during construction, Waggoner will help ensure a safe, reliable, and fully compliant lighting system.

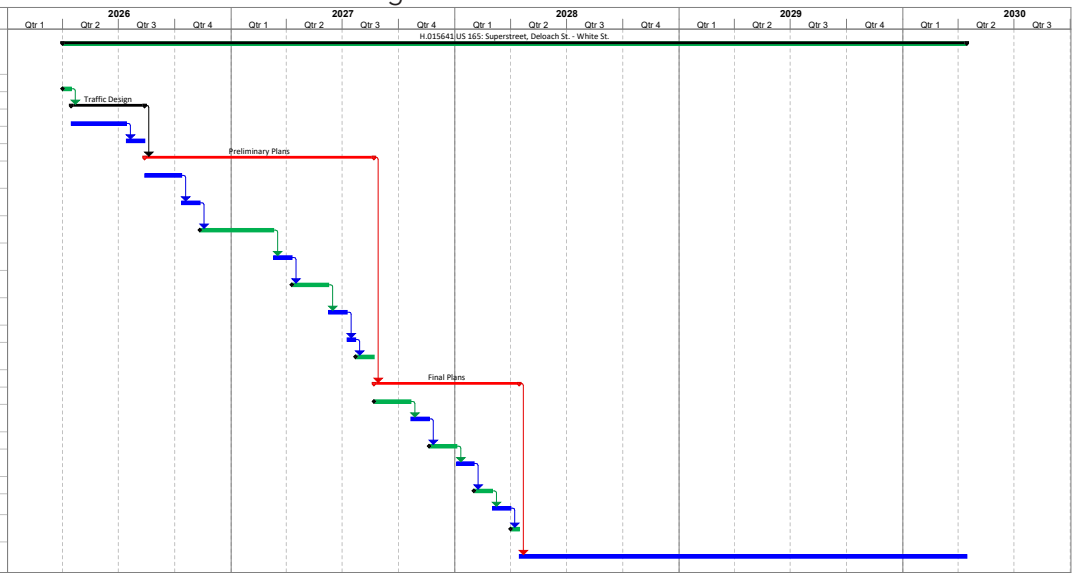
Opinion of Probable Construction Costs, Pay Items and Quantities: Opinions of probable construction costs (OPCC) will be prepared, beginning at the 90% Preliminary Plan submittal and updates will be included with every subsequent submittal. Each update will have a further refined cost estimate with less contingency assumed. Our design professionals have familiarized themselves with the new LADOTD 2026 Standard Specifications and pay item list and will lean on our extensive experience with the 2016 Standard Specifications to ensure all updates are incorporated into the plans and pay item lists. We have experience with and understand the requirements for breaking down quantities by construction funding sources and control sections, as well as by LADOTD assets (i.e., bridge structure).

Quality Assurance/Quality Control (QA/QC): Waggoner proposes to utilize our currently implemented quality control plan for this contract, which includes LADOTD's QA/QC requirements and forms. Built around LADOTD's philosophy and internal QA/QC plans, the key components to this plan include **communication**, **redundancy**, **and application of experience**.

Project Schedule: Waggoner has worked on numerous large-scale LADOTD projects and understands the delivery and production processes for these types of projects. This allows us 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.

Conclusion: Waggoner has experience providing all the elements described in the Scope of Services to LADOTD. With our knowledge of LADOTD procedures and practices, Waggoner provides a design consultant with an unparalleled depth of hands-on experience, technical expertise, and capability to perform the services needed within budget and on time.

ID	Task Mode	Task Name	Duration
1		**H.015641 US 165: Superstreet, Deloach St. - White St.**	**1475 days**
2		Project Kickoff & NTP	14 days
3		**Traffic Design**	**120 days**
4		Traffic Report	90 days
5		DOTD Review	30 days
6		**Preliminary Plans**	**374 days**
7		30% Preliminary Plans	60 days
8		30% DOTD Review and Comment	30 days
9		60% Preliminary Plans	120 days
10		60% DOTD Review & Comment	30 days
11		90% Preliminary Plans	60 days
12		90% DOTD Review & Comment	30 days
13		Plan-in-Hand Meeting	14 days
14		100% Preliminary Plans	30 days
15		**Final Plans**	**237 days**
16		60% Final Plans	60 days
17		60% DOTD Review & Comment	30 days
18		90% Final Plans	45 days
19		90% DOTD Review & FP Meeting	28 days
20		98% Final Plans	30 days
21		98% PQU, Chief Review	30 days
22		100% Final Plans (Signed & Sealed)	14 days
23		**Construction Administration**	730 days



Sections 19–23

Pecue Lane/I-10 Interchange, East Baton Rouge Parish, LA (H.003047)

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.) designed the widening of two prestressed concrete girder structures over Ward's Creek along the mainline I-10 roadway as well as with a slab span structure over Ward's Creek along the local roadway south of the proposed interchange structure.

19. WORKLOAD:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
WAGGONER	Road	44-19010, H.010652	LA 73: US 61 (Airline) – Essen Lane	$2,349
		44-19010, H.010116	LA 1088: Soult and Trinity Roundabouts	N/A
		unavail, H.004791	Belle Chase Bridge & Tunnel Replacement	N/A
		44-18646, H.004100	I-10: LA 415 to Essen Lane on I-10 and I-12	$898,696
		44-24084, H.009300	CMAR Contract for Hooper Road Widening (LA 3034 - LA 37)	$139,783
		4400004666, H.002868	Ambassador Caffery & US 90 Interchange Construction Support	N/A
VECTURA CONSULTING SERVICES, LLC	Traffic	4400005484, H.005168.2	New Orleans Rail Gateway Avondale EA	$57,644
		H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$ 11,202
		4400021519, H.012030.5	KCS RR Overpasses HBI	$ 572
		4400023075, H.013522	S. Lewis Street Widening	$ 7,499
		4400025299, H.01564.5	LA 47 Hayne Blvd Safety Improvements	$ 9,437
		4400018271, H.014746.5	LA 383 Stage 0 Corridor Study	$ 20,146
		4400025299	Dist. 02H Flashing Yellow Arrow Part 2	$ 83,260
	ITS	4400016364, H.013421.5	Houma Regional ITS Architecture Update	$ 10,746
DRMP		N/A	N/A	N/A

19. WORKLOAD:

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
Ardaman & Associates, Inc.	Geotech	44-4128; H.004273	I-49 Connector, Lafayette	$265,164
		44-18899; H.004791	LA 23: Belle Chasse Bridge & Tunnel (HBI)	$38,344
		44-19013; H.004100.5	I-10 CMAR Design Continuation: LA 415 To Essen	$512,618
		H.004435	I-12 to Bush Construction Phase	$44,544
		44-8671; H.009266	I-10 Widening: LA 73 to LA 30	$25,760
		44-19013; H.002244.5	Boudreaux Canal Bridge (LA 56)	$180
		44-17438; H.013284	MRB GBR LA 1 to LA 30 Connector	$2,781
		44-6189; H.004647.6	I-20 Mississippi River Bridge at Vicksburg	$1,629,421
		H.015935	LA 47 at Bayou Bienvenue Bridge Replacement PDA	$23,059
		44-25025; H.015337, H.015452, H.015453, H.015454, H.015455, H.015456, H.015457, H.015458, H.015459, H.015460, H.015461, H.015462, H.015463	IIJA	$77,119
		44-24652; H.014265.5	N River Road Irving Branch	$65
		44-24652; H.012533.5	LA 1252 Bayou Pt Brule Bridge	$39
		44-24652, H.012607.5	Henderson Bayou Bridge LA 933	$65
		44-24652, H.015568.5,	Pelican Point Roundabout	$10,980
		44-24652; H.012842.5	LA 124 Ext. Larto Lake	$152
		44-21519; H.012030.5	KCS RR Overpasses US 371	$44,036
		44-21887; H.012542, H.012453, H.012544, H.012047	Replacement of 15 Bridges	$579,165
		44-6189; H.016313.5, H.016314.5, H.016315.5, H.016316.5, H.016317.5, H.016318.5, H.016319.5, H.016320.5, H.016325.5	Culvert Replacements	$203,307
		H.015429, H.015430, H.015432	IIJA	$14,545
		H.001798	LA 531: Bridges Near Dubberly	$51,410
		H.15477	Caddo & Bossier Pavement	$23,710

20. CERTIFICATIONS/LICENSES:

Waggoner Engineering, Inc.

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
143 A LEFLEURS SQUARE
JACKSON, MS 39211
Mailing Address
143 A LEFLEURS SQUARE
JACKSON, MS 39211
Principal Business Office
143 A 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

20. CERTIFICATIONS/LICENSES:

Waggoner Engineering, Inc. - Alex Farr

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

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

20. CERTIFICATIONS/LICENSES:

Waggoner Engineering, Inc. - Joshua Renard and Robert Lear

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

UESI
ASCE

BAMI-I
BURIED ASSET MANAGEMENT INSTITUTE - INTERNATIONAL
www.bami-i.com

CERTIFICATE OF COMPLETION

THIS IS TO ACKNOWLEDGE THAT

Joshua K. Renard

HAS SUCCESSFULLY COMPLETED THE CLASSROOM AND FIELD TRAINING REQUIREMENTS,

AND IS DULY AWARDED THE CERTIFICATE OF COMPLETION FOR

The 16th UESI Utility Investigation School

40 Professional Development Hours (4 CEUs)

Held in Mississippi State University (MSU), March 13-17, 2023.

On this 17th day of March 2023

Tom Iseley, Ph.D., P.E., Dist. M. ASCE, PWAM
Professor of Engineering Practice
Beavers Heavy Construction Distinguished Fellow
Construction Engineering & Management
Purdue University
Chair, BAMI-I Board of Directors
Board Member, World Trade Center-Indianapolis
Adjunct Professor, Xi'an Jiaotong University, China

MISSISSIPPI STATE UNIVERSITY

John P. Campbell, PE, SR/WA, M. ASCE
President, ASCE Utility Engineering and Surveying Institute 2021
Incoming Chair – ASCE 38-27 Standard Committee
Member ASCE 38 & ASCE 75 Standards Committees
Former Director – TxDOT ROW and Utilities
Past Chair - AASHTO Committee on Utilities (CRUO)
Past Chair – IRWA Int'l Transportation Committee

uta
UTILITY TRAINING ACADEMY

Certificate of Completion

Josh K. Renard

has successfully completed Utility Training Academy's
Subsurface Utility Locator Training & Testing to achieve recognition as a
U.T.A. Certified Professional Utility Locator

Date: January 15, 2019
Duration: 8 Contact Hours

Bob Nighswonger
President, Utility Training Academy

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

20. CERTIFICATIONS/LICENSES:

Vectura Consulting Services, LLC

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

20. CERTIFICATIONS/LICENSES:

Vectura Consulting Services, LLC

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.

Jon Roddy

Paula Roddy, Compliance Programs Director

Louisiana Department of Transportation & Development

20. CERTIFICATIONS/LICENSES:

Vectura Consulting Services, LLC - Brin Ferlito

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

ATSSA TRAINED

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.

ATSSA American Traffic Safety Services Association ATSSA.com

20. CERTIFICATIONS/LICENSES:

Vectura Consulting Services, LLC - Brin Ferlito continued

ATSSA American Traffic Safety Services Association

SAFER ROADS SAVE LIVES

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

Transportation Professional Certification Board Inc.

1627 Eye Street, NW • Suite 550 • Washington, DC 20006 USA • Tel: 202-785-0060 • www.tpcb.org

Ms. Sheelagh B. Ferlito, P.E., PTOE
Vectura Consulting Services, LLC
P.O. Box 14269
Baton Rouge, LA 70898
USA

Dear Ms. Ferlito,

Thank you for renewing your certification as a Professional Traffic Operations Engineer® (PTOE). The Transportation Professional Certification Board (TPCB) congrats you for your continued commitment to your profession. As a PTOE you will be recognized as one of a specialized group of professional Traffic Operations Engineers with the set of skills and expertise needed to build better communities.

Your certification is renewed through 9/9/2027.

At the end of the three-year period, your certification will be renewed without examination provided you have met the continuing education requirements.

Thank you for your continued PTOE certification and best wishes in the coming years.

Sincerely,

Joseph C. Balskus, P.E., PTOE, RSP1
Chair, Transportation Professional Certification Board Inc.

20. CERTIFICATIONS/LICENSES:

Vectura Consulting Services, LLC - Laurence Lambert

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

ATSSA TRAINED

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.

ATSSA American Traffic Safety Services Association ATSSA.com

20. CERTIFICATIONS/LICENSES:

Vectura Consulting Services, LLC - Laurence Lambert continued

ATSSA
American Traffic Safety Services Association

This is to affirm that

Laurence Lambert

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 5/9/2023 — ATSSA

Exp. Date 5/8/2027 — *Instructor Name*

State Issued LA — *Instructor Signature*

A1000126196 — Verify at Flagger.com

TPCB

The Transportation Professional Certification Board

Certifies that

Mr. Laurence L. Lambert, II, P.E., PTOE, PTP

successfully holds the Professional Traffic Operations Engineer® certification

Original Certification Date: 2/3/2004

Certification Valid Through: 2/3/2028

Steve Kuciemba,
Executive Director and CEO

Jan O. Voss, P.Eng., PTOE
TPCB Chair

Certification Number: 1303

20. CERTIFICATIONS/LICENSES:

Vectura Consulting Services, LLC - Reece Rodrigue

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

ATSSA TRAINED

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

New Orleans, LA
Location

Vice President of Education and Technical Services

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

20. CERTIFICATIONS/LICENSES:

Vectura Consulting Services, LLC - Reece Rodrigue continued

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

TPCB

The Transportation Professional Certification Board

Certifies that

Mr. Reece J. Rodrigue, P.E., PTOE, RSP1

successfully holds the Professional Traffic Operations Engineer® certification

Original Certification Date: 7/17/2019

Certification Valid Through: 7/17/2028

Steve Kuciemba,
Executive Director and CEO

Jan O. Voss, P.Eng., PTOE
TPCB Chair

Certification Number: 4508

20. CERTIFICATIONS/LICENSES:

Vectura Consulting Services, LLC - Kristen Gahagan Farrington

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 30, 2018 *Professional Development*
Location: Baton Rouge, Louisiana *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 *Professional Development*
Location: Baton Rouge, Louisiana *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 *Professional Development*
Location: Baton Rouge, Louisiana *Hours (PDHs) Awarded:* 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

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

20. CERTIFICATIONS/LICENSES:

Vectura Consulting Services, LLC - Kristen Gahagan Farrington continued

Transportation Professional Certification Board Inc.

1627 Eye Street, NW • Suite 550 • Washington, DC 20006 USA • Tel: 202-785-0060 • www.tpcb.org

Mrs. Kristen Gahagan Farrington, P.E., PTOE, RSP1
4004 Hastings Street
Metairie, LA 70002
USA

Dear Mrs. Farrington,

Thank you for renewing your certification as a Professional Traffic Operations Engineer® (PTOE). The Transportation Professional Certification Board (TPCB) congrats you for your continued commitment to your profession. As a PTOE you will be recognized as one of a specialized group of professional Traffic Operations Engineers with the set of skills and expertise needed to build better communities.

Your certification is renewed through 3/26/2026.

At the end of the three-year period, your certification will be renewed without examination provided you have met the continuing education requirements.

Thank you for your continued PTOE certification and best wishes in the coming years.

Sincerely,

Joseph C. Balskus, P.E., PTOE, RSP1
Chair, Transportation Professional Certification Board Inc.

20. CERTIFICATIONS/LICENSES:

Ardaman & Associates, Inc.

AASHTO ACCREDITED

CERTIFICATE OF ACCREDITATION

American Association of State Highway and Transportation Officials
AASHTO

Ardaman & Associates, Inc.

in

Baton Rouge, Louisiana, USA

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

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

Jim Tymon,
AASHTO Executive Director

Matt Linneman,
AASHTO COMP Chair

This certificate was generated on 08/14/2025 at 3:48 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory

DEQ LOUISIANA

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Louisiana Environmental Lab Accreditation Program — LELAP

Is hereby granting a Louisiana Environmental Laboratory Accreditation to

Ardaman & Associates Inc
316 Highlandia Dr
Baton Rouge, Louisiana 70810-5904

Agency Interest No. 30726
Activity No. ACC20250001

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

Tonya Landry
Administrator
Public Participation and Permit Support Division

Issued Date: 10/2/2025
Effective Date: July 1, 2025
Expiration Date: June 30, 2026
Certificate Number: 02052

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
ARDAMAN & ASSOCIATES, INC.	Business Corporation (Non-Louisiana)	ORLANDO	Active

Previous Names

Business: ARDAMAN & ASSOCIATES, INC.
Charter Number: 34396031F
Registration Date: 12/13/1991
Domicile Address
8008 SOUTH ORANGE AVENUE
ORLANDO, FL 32809
Mailing Address
3475 E. FOOTHILL BLVD.
PASADENA, CA 91107
Principal Business Office
8008 SOUTH ORANGE AVENUE
ORLANDO, FL 32809
Registered Office in Louisiana
3867 PLAZA TOWER DR.
BATON ROUGE, LA 70816
Principal Business Establishment in Louisiana
316 HIGHLANDIA DR.
BATON ROUGE, LA 70816

Status

Status: Active
Annual Report Status: In Good Standing
Qualified: 12/13/1991
Last Report Filed: 11/19/2024

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Effective Date: July 1, 2025

Ardaman & Associates Inc
AI Number: 30726
Activity No. ACC20250001
Expiration Date: June 30, 2026

316 Highlandia Dr, Baton Rouge, Louisiana 70810-5904
Certificate Number: 02052

Air Emissions

Analyte	Method Name	Method Code	Type	AB

Non Potable Water

Analyte	Method Name	Method Code	Type	AB

Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
1730 - Amount Of Soil Finer Than The No. 200 Sieve	ASTM D1140	3550	AASHTO	AAP
1731 - Laboratory Compaction Of Soils (Proctor Density)	ASTM D1557	3551	AASHTO	AAP
1731 - Laboratory Compaction Of Soils (Proctor Density)	ASTM D698	3561	AASHTO	AAP
1732 - Unconfined Compressive Strength Of Soil	ASTM D2166	3552	AASHTO	AAP
1734 - Classification Of Soils For Engineering Purposes (Unified Soil Classification System	ASTM D2487	3554	AASHTO	AAP
1735 - Soil Classification Visual - Manual (Field)	ASTM D2488	3555	AASHTO	AAP
1736 - Unconsolidated, Undrained Triaxial Compression	ASTM D2850	3556	AASHTO	AAP
1738 - Particle Size Analysis Of Soils	ASTM D422 63 (7)	30030854	AASHTO	AAP
1739 - Atterberg Limits of Soils	ASTM D4318	3559	AASHTO	AAP
1740 - Liquid Limit	ASTM D4318	3559	AASHTO	AAP
1741 - Plastic Limit	ASTM D4318	3559	AASHTO	AAP
1742 - Plasticity Index	ASTM D4318	3559	AASHTO	AAP
1743 - Specific Gravity Of Soils	ASTM D854	3562	AASHTO	AAP
1744 - Hydraulic Conductivity (Flexible Wall Permeameter)	ASTM D5084	3563	AASHTO	AAP
1900 - pH	ASTM D4972	3560	AASHTO	AAP
1919 - Hydraulic Conductivity	ASTM D2434	3834	AASHTO	AAP
1954 - In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	ASTM D6938	3854	AASHTO	AAP
2073 - Dry Preparation of Samples	ASTM D421	3972	AASHTO	AAP
2086 - One-Dimensional Consolidation Properties of Soils	ASTM D2435	3994	AASHTO	AAP
2439 - Hydraulic Conductivity (granular material)	ASTM D2434	3834	AASHTO	AAP
2464 - Particle Size Distribution	ASTM D6913	4324	AASHTO	AAP
3850 - Moisture content	ASTM D2216-10	30025106	AASHTO	AAP
7987 - Organic Content of Soil by Ignition	ASTM D2974-07A	30026450	AASHTO	AAP

Clients and Customers are urged to verify the laboratory's current certification status with the Louisiana Environmental Laboratory Accreditation Program.

20. CERTIFICATIONS/LICENSES:

Ardaman & Associates, Inc. - Megan Bourgeois, PE and Casey Floyd

ATSSA
Safer Roads Save Lives

Megan Bourgeois

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 21-JUN-2024

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

Megan Bourgeois

has attended
National Flagger Certification Training Course

Completed: 15-AUG-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 TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Casey Floyd
has attended
Louisiana Traffic Control Supervisor
Training Course

9/6/2023 to 9/6/2027
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
American Traffic Safety Services Association

This is to affirm that

CASEY FLOYD

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 6/4/2024
Exp. Date 6/4/2028
State Issued LA

Debbie Purcella
Instructor Name
Debbie Purcella
Instructor Signature

V0000258342
Verify at Flagger.com

20. CERTIFICATIONS/LICENSES:

Ardaman & Associates, Inc. - Robert Jewell, PE

ATSSA
Safer Roads Save Lives

Robert Jewell

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 23-AUG-2024

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

PDCA
PILE DRIVING CONTRACTORS ASSOCIATION

Pile Dynamics, Inc.

This documents that

Robert Edwin Jewell
Ardaman & Assoc

has on February 17, 2011 achieved the rank of

ADVANCED

on the **Dynamic Measurement and Analysis Proficiency Test.**

The individual identified on this document demonstrated to the degree granted above an understanding of theory, data quality evaluation, interpretation and signal matching for high strain dynamic testing of deep foundations. ***It is recommended* that Individuals at the Advanced level seek Master or Expert levels through additional study within four years of the date of this document.**

The ability of the individual named to provide appropriate knowledge and advice on a specific project is not implied or warranted by the Pile Driving Contractors Association or Pile Dynamics, Inc. The Pile Driving Contractors Association or Pile Dynamics, Inc. assumes no liability for foundation testing and analysis work performed by the bearer of this certificate.

Steven A. Hall, Executive Director
Pile Driving Contractors Association

Garland Likins, President
Pile Dynamics, Inc

ATSSA
Safer Roads Save Lives
American Traffic Safety Services Association

This is to affirm that

ROBERT JEWELL

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 7/31/2025
Exp. Date 7/31/2029
State Issued LA

Debbie Purcella
Instructor Name

Debbie Purcella
Instructor Signature

V0000394058

Verify at Flagger.com

20. CERTIFICATIONS/LICENSES:

Ardaman & Associates, Inc. - Jarmon King, PE

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jarmon King
has attended
Louisiana Traffic Control Supervisor
Training Course

11/8/2023 to 11/8/2027
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.

American Traffic Safety Services Association ATSSA.com

ATSSA American Traffic Safety Services Association

SAFER ROADS SAVE LIVES

This is to affirm that

JARMON KING

has satisfied the requirements to be designated as a

CERTIFIED FLAGGER

Issue Date 5/29/2024

Exp. Date 5/29/2028

State Issued LA

Debbie Purcella

Instructor Name

Debbie Purcella

Instructor Signature

V0000258173

Verify at Flagger.com

PDCA PILE DRIVING CONTRACTORS ASSOCIATION

Pile Dynamics, Inc.

This documents that

Jarmon E. King
Ardaman and Associates, Inc.

has on March 15, 2019 achieved the rank of

BASIC

on the **Dynamic Measurement and Analysis Proficiency Test**.

The individual identified on this document demonstrated to the degree granted above an understanding of theory, data quality evaluation, interpretation and signal matching for high strain dynamic testing of deep foundations. ***It is recommended* that individuals at the Basic level seek Intermediate, Advanced, Master or Expert levels through additional study within two years of the date of this document**

The ability of the individual named to provide appropriate knowledge and advice on a specific project is not implied or warranted by the Pile Driving Contractors Association or Pile Dynamics, Inc. The Pile Driving Contractors Association or Pile Dynamics, Inc. assumes no liability for foundation testing and analysis work performed by the bearer of this certificate. This certificate can be verified at www.PDAproficiencytest.com.

Frank T. Peters, Executive Director
Pile Driving Contractors Association

Garland Likins, Senior Partner
Pile Dynamics, Inc.

No. 2891

20. CERTIFICATIONS/LICENSES:

DRMP, Inc.

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
DRMP, INC.	Business Corporation (Non-Louisiana)	ORLANDO	Active

Previous Names

Business: DRMP, INC.
Charter Number: 45281809F
Registration Date: 2/23/2023
Domicile Address
941 LAKE BALDWIN LANE
ORLANDO, FL 32814
Mailing Address
941 LAKE BALDWIN LANE
ORLANDO, FL 32814
Principal Business Office
941 LAKE BALDWIN LANE
ORLANDO, FL 32814
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: 2/23/2023
Last Report Filed: 5/8/2025

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	**Sheelagh Brin Ferlito, PE** Partner bferlito@vecturacs.com	225.223.6685
DRMP, Inc.	941 Lake Baldwin Lane Orlando, FL 32814	**Jim Highland, PE** Traffic Division Leader JHighland@drmp.com	407.362.1398
Ardaman & Associates, Inc.	101 Teal Street St. Rose, LA 70087	**Robb Jewell, PE,** Vice President, Branch Manager rjewell@ardaman.com	225.752.4790

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.