# IDIQ Contract for Design Services
# Statewide with Majority of Work in District 04

LADOTD Contract No. 4400035313

June 3, 2026


Submitted by:
Waggoner Engineering, Inc.

waggonereng.com

LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

June 03, 2026

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

**RE: Contract No. 4400035313**
**RFQ for Engineering and Related Services for IDIQ Contract for Design Services Statewide with Majority of Work in District 04**

Waggoner Engineering, Inc. (Waggoner) is excited for the opportunity to partner with the Louisiana Department of Transportation and Development (LADOTD) on this Indefinite Delivery/Indefinite Quantity (IDIQ) Contract for Design Services, serving projects statewide with a focus in District 04. We are fully prepared to bring our proven experience, depth of resources, and long-standing relationships with LADOTD to successfully execute multiple concurrent task orders across a wide range of design disciplines.

### 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 LADOTD now serves as Waggoner's transportation division headquarters. **While legacy Sigma now operates under the Waggoner name, the day-to-day management and operational structure remain unchanged.** The former owners and managing partners of Sigma are active leaders in Waggoner's management and operations, ensuring that the firm experience and exemplary past performance provided by Sigma over our 30+ years of service to LADOTD remains intact while offering the broader resources and capabilities of Waggoner.

### LADOTD Design Experience:

Our team offers comprehensive expertise in roadway and bridge design, topographic and property surveying, hydraulic and drainage analysis, environmental documentation and permitting, and pavement preservation and transportation systems management. We are well-versed in LADOTD processes, manuals, and standards, including the Roadway Design Procedures and Details Manual, Bridge Design and Evaluation Manual, Hydraulics Manual, and Off-System Highway Bridge Program Guidelines. Our project team includes staff with decades of combined LADOTD transportation design experience and a strong understanding of LADOTD project development procedures, review processes, design standards, and coordination requirements necessary to deliver practical and constructable transportation solutions throughout project development.

### Capacity and Resources:

We understand that, for evaluation purposes, this IDIQ contract assumes up to three (3) active task orders at any given time. Our team size, supported by trusted sub-consultants, is structured to provide responsive service without compromising quality or schedule. Waggoner will maintain more than 50 percent of the work in-house, ensuring direct control over project quality and delivery. To further enhance our capabilities, we have strategically partnered with **Vectura Consulting Services, LLC (Vectura) for traffic engineering, NTB Associates, Inc. (NTBA) for surveying assistance, and APS Engineering and Testing, LLC (APS) for geotechnical services**. These partnerships bring specialized expertise, proven performance on LADOTD projects, and a shared commitment to delivering accurate, timely, and cost-effective results for each task order issued under this contract.

### Approach and Methodology:

Our approach emphasizes proactive communication with LADOTD project managers and district staff, rigorous QA/QC for all deliverables—including those from sub-consultants—and the flexibility to adapt to varying project schedules. We combine multidisciplinary expertise across roadway, bridge, survey, environmental, and hydraulic disciplines with a commitment to delivering high-quality results in accordance with DOTD standards. Our familiarity with LADOTD's IDIQ and task order processes allows us to streamline execution, reduce review cycles, and ensure that every project meets DOTD's expectations for quality, safety, and efficiency.

Thank you for considering Waggoner for this opportunity. 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 J. Lear, Jr., PE, LSI**
Vice President / Senior Project Manager
Waggoner Engineering, Inc.

# Sections 1-11

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

Waggoner Engineering, Inc. - Lead Design Firm

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

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

Showing Interstate 10 widening during construction for an urban capacity project that added an additional lane in each direction. Waggoner provided all roadway design, SUE services, and drainage design.

# 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 | IDIQ Contract for Design Services Statewide<br>with Majority of Work in District 04 |
| **2. Contract Number(s)** as shown in advertisement | Contract No. 4400035313 |
| **3. State Project Number(s)**, if shown in the advertisement | N/A |
| **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.** |
| **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**<br>**VF.0000457** |
| **6. Prime Consultant Mailing Address** | 10305 Airline Highway<br>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<br>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**<br>Vice President/Transportation Market Sector Leader<br>robert.lear@waggonereng.com<br>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**<br>Vice President/Transportation Market Sector Leader<br>robert.lear@waggonereng.com<br>225.298.0800 |

**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.**

**Robert J. Lear, Jr., PE, LSI**

Signature above shall be the same person listed in Section 9

Date: June 3, 2026

**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 | 5% |
| Total DBE Participation | 5% |

# Sections 12-15

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

Waggoner Engineering, Inc.
Lead Design Firm

Past Performance Disciplines by Waggoner: Other (Project Management), Right-of-Wat, Road, Survey

Showing a completed new single-lane, 4-legged roundabout at the intersection of LA 347 and Doyle Melancon Rd. as part of an intersection improvement. Design was performed in conformance with EDSM VI.1.1.6 and the recommendations of the traffic study.

## 12. PAST PERFORMANCE EVALUATION DISCIPLINE TABLE:

| Discipline(s) | % of Overall Contract | Waggoner | APS | NTB Associates | Vectura | Each Discipline must total to 100.0% |
|---|---|---|---|---|---|---|
| Road | 70.0% | 100.0% | - | - | - | 100.0% |
| Bridge | 3.0% | 100.0% | - | - | - | 100.0% |
| Traffic | 5.0% | - | - | - | 100.0% | 100.0% |
| Geotech | 5.0% | - | 100.0% | - | - | 100.0% |
| Survey | 10.0% | 50.0% | - | 50.0% | - | 100.0% |
| Right-of-Way | 2.0% | 50.0% | - | 50.0% | - | 100.0% |
| Other (Project Management) | 5.0% | 100.0% | - | - | - | 100.0% |
| 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%** | **84.0%** | **5.0%** | **6.0%** | **5.0%** | **100.0%** |

## 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 | 2 | 7 |
| | Engineer | 4 | 11 |
| | Engineer Intern | 4 | 8 |
| | CADD Technician | 2 | 3 |
| | Senior Technician | 1 | 4 |
| | Instrument Man | 1 | 2 |
| | Surveyor | 1 | 1 |
| | Party Chief | 1 | 1 |
| | Clerical | 1 | 2 |
| APS Engineering and Testing | Engineer | 2 | 3 |
| | Engineer Intern | 1 | 1 |
| | CADD Technician | 1 | 2 |
| | Senior Technician | 2 | 3 |
| | Inspector | 1 | 1 |
| | Clerical | 1 | 2 |

## 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) |
|---|---|---|---|
| NTBA SURVEY. DESIGN. BUILD. SUCCEED. | Principal | 1 | 1 |
| | Engineer | 0 | 1 |
| | Engineer Intern | 0 | 1 |
| | Surveyor | 4 | 6 |
| | Supervisor - Other | 1 | 5 |
| | Senior Technician | 0 | 1 |
| | CADD Technician | 1 | 10 |
| | Technician | 1 | 2 |
| | CADD DRAFTER | 1 | 8 |
| | Party Chief | 4 | 20 |
| | Instrument Man | 4 | 12 |
| | Rodman | 4 | 12 |

| | | | |
|---|---|---|---|
| VECTURA CONSULTING SERVICES, LLC | Supervisor - Eng | 2 | 2 |
| | Engineer | 3 | 5 |
| | Engineer Intern | 2 | 2 |
| | Senior Technician | 0 | 2 |
| | Supervisor - Other | 1 | 1 |
| | Technician | 1 | 1 |
| | Clerical | 1 | 1 |

## 14. ORGANIZATIONAL CHART:

| KEY |
|---|
| Waggoner |
| APS |
| NTB Associates |
| Vectura |
| (#) Meets MPR Criteria |
| * Meets Work Zone Training Requirements |
| ^ Meets Traffic Engineering Process & Report Training Requirements |
| **DISCIPLINE LEAD** (BOLD) |


**PRINCIPAL-IN-CHARGE**
**Miles Williams, PE (1,2, 3)**

**PROJECT MANAGER**
**Alex Farr, PE *^**

**QA/QC**
**Robert J. Lear, Jr, PE, LSI ***

### ROAD & DRAINAGE

- **Alex Farr, PE * ^**
- Cal Joy, PE * ^
- Kelsie Bankston, PE *
- Bryan Harmon, PE
- Joshua Renard, PE *
- Thomas Grass, PE
- Charlotte Gremillion, PE *
- Steve Gilliam, PE
- Wesley Melancon, PE

### BRIDGE

- **Andrew Windmann, PE**
- Joshua Gonya, PE

### TRAFFIC

- **Sheelagh Brin Ferlito, PE, PTOE ^**
- Laurence Lambert , PE, PTOE, PTP * ^
- Reece Rodrigue, PE, PTOE, RSP1 * ^
- Kristen Farrington, PE, PTOE, RSP2 ^

### TOPOGRAPHIC SURVEY/ROW

- **Jace Ricard, PLS (4) ***
- **Patrick Staiano, PLS ***
- William Offer, PLS
- Bryan Brunch, PLS
- Michael King, PLS (4)

### GEOTECHNICAL

- **Sergio Aviles, PE ***
- Sairam Eddanapudi, PE *
- Surendra Pathak, PE *
- Dhanunjay Chetput, E.I. *

### SUBSURFACE UTILITY ENGINEERING

- **Joshua Renard, PE ***
- Brandon Bollich

### CONSTRUCTION SUPPORT

- **Robert Lear, PE, LSI ***
- Andrew Windmann, PE
- Alex Farr, PE * ^

## 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 Engineering, Inc. | PE#23094 - Civil | LA | 03/31/28 |
| 2 | Miles Williams, PE | Waggoner Engineering, Inc. | PE#23094 - Civil | LA | 03/31/28 |
| 3 | Miles Williams, PE | Waggoner Engineering, Inc. | PE#23094 - Civil | LA | 03/31/28 |
| 4 | Jace Ricard, PLS | Waggoner Engineering, Inc. | PLS#5205 - Survey | LA | 09/30/27 |
| | Michael King, PLS | NTB Associates, Inc. | PLS#5127 - Survey | LA | 09/30/27 |

* 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

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

Waggoner Engineering, Inc.
Lead Design Firm

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

Showing a completed new pair of interchange roundabouts at LA 347 in Henderson, LA as part of an Interchange Improvement and drainage improvement project.

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

| | | | |
|---|---|---|---|
| Name | **Alex Farr, PE** | Years of Relevant Experience with this Employer | 12 |
| Title | Senior Transportation Engineering Manager | Years of Relevant Experience with Other(s) Employers | 2 |
| Degree(s) / Years / Specialization | BS / 2011 / Civil Engineering | | |
| Active Registration Number / State/Expiration Date | PE# 40426 / LA / 09-30-2026 | | |
| Year Registered | 2016 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Project Manager / Construction Support | | |

Alex Farr is a **licensed civil enginee**r with **extensive LADOTD experience in roadway design, pavement preservation, transportation systems management (TSM), and drainage improvements.** For this IDIQ Design Services contract, Alex will serve as **both Project Manager and Road & Drainage Discipline Lead**, providing overall project leadership, task order oversight, and QA/QC management. In this role, he will **direct roadway and drainage design, survey integration, project stationing, and documentation of drainage structures, utilities, and existing conditions**. Alex will ensure all design activities adhere to **LADOTD's Roadway Design Procedures, Details Manual, and Louisiana Standard Specifications**, while also managing construction support services such as plan clarifications, responses to RFIs, and **coordination with LADOTD staff**. His technical expertise, management experience, and **familiarity with District 04 priorities will ensure the accurate, timely, and compliant delivery** of task orders under this contract.

| 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<br>SECTION 17 PROJECT | **I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR, East Baton Rouge and West Baton Rouge Parish, LA (H.004100)**<br>**Project Engineer.** Alex was responsible for development of the proposed vertical profiles along the entire mainline corridor as well as the respective service roads, surface streets, entrances, and exit ramps. This included determining existing vertical clearances along the corridor and adjusting profiles to meet LADOTD minimum design guidelines based on as-built information for the respective locations. Alex also developed sequence of construction plans for the surface street improvements and prepared quantity calculations and Opinions of Probable Construction Cost for the roadway portion of the entire project. |
| 10/12 - Ongoing<br>SECTION 17 PROJECT | **Hooper Road Widening (LA 408) Blackwater - Joor, East Baton Rouge Parish, LA (H.002316)**<br>**Project Engineer.** Alex supported roadway design efforts for the Hooper Road Widening project, which widened the existing two-lane corridor into a four-lane boulevard with complete streets accommodations and access management improvements. His responsibilities included development of sequence of construction plans, vertical geometry, signing and striping layouts, and quantity calculations associated with the corridor widening and intersection improvements, including the proposed roundabout at LA 408 and Lovett Road. |
| 08/18 – 10/22<br>SECTION 17 PROJECT | **I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)**<br>**Project Engineer.** Alex was responsible for development of vertical geometry, including graphical grades and superelevation calculations, for the proposed ramps, interchange improvements, and arterial roadway connections throughout the corridor. He also supported horizontal geometry development, preparation of clearing and grubbing plans, and development of quantity calculations and Opinions of Probable Construction Cost associated with the overall roadway improvement project. |
| 09/22 - Ongoing<br>SECTION 17 PROJECT | **LA 1088: Soult and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)**<br>**Project Engineer.** This project included replacing two intersections and the connecting two-lane urban arterial with roundabouts and a four-lane boulevard section. Alex supported the design effort through development of roadway geometrics, technical calculations, and plan production. He assisted in preparing the sequence of construction to maintain traffic and minimize disruption throughout project phasing. Alex also contributed to public meeting coordination and materials, helping communicate design concepts and gather stakeholder input to inform the final design. |

## Alex Farr resume continued

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|---|---|
| 10/16 – 12/20 | **I-10: Highland to LA 73 Design-Build, East Baton Rouge and Ascension Parish, LA (H.009250)**<br>**Project Engineer.** Alex was responsible for performing the TMP as well as the safety analysis for this project to determine what safety concerns correlated to the construction of this segment. Alex was also responsible for the suggested sequence of construction, guardrail design, and the quantity estimate for the above mentioned project. |
| 03/13 – 07/22 | **I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)**<br>**I-10: LA 328 to LA 347, St. Martin Parish, LA (H.003014)**<br>**I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014)**<br>**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. This project included both pavement preservation and capacity functional classifications. |
| 04/21 - Ongoing | **Rural Bridge Replacement Initiative Phase II (South), LA (440001338)**<br>**Project Manager.** Alex is responsible for the plan development of this project, which is for 16 state projects including 29 bridge replacement sites throughout south Louisiana. This includes preparing the Project Design Report (PDR) as well as the horizontal and vertical geometry. As some bridge sites are allowed to be closed for construction while others must remain open, Alex is also responsible for designing a detour route or diversion road, which includes a suggested sequence of construction. Alex is also responsible for the guardrail design at each bridge site. Along with plan development, Alex will be assisting the project manager in subconsultant coordination as well as invoicing and progress reporting to the LADOTD Project Manager. |
| 10/20 - Ongoing | **I-10 & I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), E. Baton Rouge Parish, LA (H.013897)**<br>**Road and Construction Sequencing Design Reviewer.** Alex is serving as a road and construction sequencing design reviewer, providing support services to DOTD for this project. This project consists of modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits. Alex's responsibilities include reviews of roadway plans and construction sequencing with consideration being given to DOTD Design Guidelines and Standard Details and Specifications. |
| 01/17 - Ongoing | **I-49 South: US 90 & Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)**<br>**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 northbound and southbound 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. |
| 2019 - Ongoing | **Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA**<br>**Project Manager.** Alex is serving as the Project Manager for the Jones Creek Road Improvements Phase 1A & 1B project in East Baton Rouge Parish for the East Baton Rouge Department of Transportation and Drainage (EBR DOTD). The project extended Jones Creek Road from the existing Tiger Bend Road intersection to a new terminus at Airline Highway and included a two-mile four-lane boulevard with green infrastructure drainage features, a roundabout at Jefferson Highway, new residential subdivisions access points, and improvements to existing intersections. Alex was responsible for overall project coordination, roadway design oversight, client coordination, and management of multidisciplinary design efforts throughout project development. He also led the development of the multi-lane roundabout design at Jefferson Highway and Jones Creek Road, including roadway geometrics, sequence of construction coordination, signing and striping considerations, and integration of the roundabout into the overall corridor improvements. |
| 2018 - 05/24 | **Scotlandville Parkway to Downtown Baton Rouge Bike Trail (H.013267)**<br>**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

| | | | |
|---|---|---|---|
| Name | **Miles Williams, PE** | Years of Relevant Experience with this Employer | 36 |
| Title | Senior Vice President | Years of Relevant Experience with Other(s) Employers | 8 |
| Degree(s) / Years / Specialization | BS / 1983 / Civil Engineering | | |
| Active Registration Number / State / Expiration Date | PE# 23094 / LA / 03-31-28 | | |
| Year Registered | 1988 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Principal-in-Charge / **Meets MPR 1, 2, and 3** | | |

Miles will **oversee the project** and ensure all services are performed in **compliance with the IDIQ Contract** and specific task orders. He will provide **high-level direction and decision-making**, ensuring adherence to the **LADOTD Location and Survey Manual** and other relevant **LADOTD standards**. Miles will be responsible for the final approval of all deliverables and coordination with the DOTD's Chief Engineer to ensure quality and conformity with **DOTD's standards**. With extensive experience as a **design engineer and project manager on traffic engineering and transportation projects,** Miles has led the design of individual and interconnected traffic signal systems, supervised multidisciplinary design teams, and developed maintenance of traffic, construction phasing, and construction signing plans and specifications for a variety of governmental and private clients.

| 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<br>SECTION 17 PROJECT | **I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)**<br>**Road Design Lead.** Miles serves as Lead Engineer and Principal-in-Charge for the I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR) project in East Baton Rouge Parish, providing executive oversight and technical leadership for interstate widening, interchange improvements, frontage roads, access management modifications, and phased construction sequencing throughout the corridor. His responsibilities included oversight of roadway geometrics, design criteria development, maintenance of traffic coordination, signing and striping, and multidisciplinary design integration with LADOTD and the CMAR contractor. As part of the corridor improvements, Miles also led the development and geotechnical design of several roundabout configurations, including the single-lane roundabout at Terrace Street and Braddock Street, the multi-lane roundabout system at Dalrymple Drive and the I-10 ramps near East Lakeshore Drive, and the double interchange roundabout configuration at Lori Burgess Avenue and the I-10 ramps, providing guidance related to geometric design, traffic operations, constructability, and sequence of construction throughout phased implementation of the project. |
| 10/12 - Ongoing<br>SECTION 17 PROJECT | **Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)**<br>**Principal-in-Charge.** Miles served as Principal-in-Charge for this 2.2-mile urban roadway capacity improvement project along Hooper Road (LA 408) in Central, Louisiana. The project widened the existing two-lane roadway to a four-lane boulevard with complete streets accommodations and included pavement preservation improvements, roadway widening, drainage enhancements, and access management features. Miles provided executive oversight and technical guidance throughout project development and contributed to the geometric design coordination for the proposed three-leg roundabout at LA 408 and Lovett Road. His responsibilities included design oversight, coordination with LADOTD and project stakeholders, quality review, and ensuring compliance with LADOTD roadway design criteria and project delivery requirements. |
| 08/18 – 10/22<br>SECTION 17 PROJECT | **I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)**<br>**Project Engineer.** Miles oversaw the I-220/I-20 Interchange Improvements and BAFB Access Design-Build project from a QA/QC perspective, providing technical oversight and review of roadway geometry, vertical profiles, interchange layouts, maintenance of traffic coordination, signing and striping plans, and quantity calculations associated with the accelerated CMAR delivery process. Miles coordinated closely with the roadway design team and contractor to ensure plan development, constructability considerations, and project deliverables remained consistent with LADOTD design standards and project requirements throughout development of the design. |

## Miles Williams resume continued

| | |
|---|---|
| 12/14 – 04/19 | **South Acadian Thruway (Perkins Road - LA 73), East Baton Rouge Parish, LA (H.011261)**<br>**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. |
| 03/13 – 07/22 | **I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)**<br>**I-10: LA 328 to LA 347, St. Martin Parish, LA (H.003014)**<br>**I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014)**<br>**Principal-in-Charge, Road Design Engineer.** Miles served as the principal-in-charge and road design engineer for capacity and pavement preservation improvements for I-10 in Lafayette. These three projects were designed concurrently under a road design retainer and constructed under three separate construction contracts. He provided overall contract management, designed sequence of construction plans, and mentored the roadway design calculation and plan preparation process. He played a supportive role in construction support as well. This project included both pavement preservation and capacity functional classifications. |
| 10/16 - Ongoing | **I-10: Highland to LA 73 Design-Build, East Baton Rouge and Ascension Parish, LA (H.009250)**<br>**Project Design Manager.** Miles is serving as the Project Design Manager for all design efforts on the project. As such, he is responsible for leading and coordinating all disciplines: road design; bridge design; lighting; geotechnical investigation; and traffic control. He also is the responsible engineer for geometric design, roadway construction and traffic control plans. During construction, he is interacting with both the Contractor and the designers of various temporary components to ensure that all project requirements are being met. |
| 01/13 - Ongoing | **I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)**<br>**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. |
| 03/03 - Ongoing | **LA 1 Improvements: Fourchon-Golden Meadow, Lafourche Parish, LA (700-29-0112 \| H.008145 \| H.004526)**<br>**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. |
| 04/02 – 04/12 | **Jones Creek Road Improvements Tiger Bend Road – Coursey Blvd., East Baton Rouge Parish, LA (H.007137)**<br>**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 ROW map preparation phases. |
| 04/18 - Ongoing | **Belle Chasse Bridge and Tunnel Replacement Public-Private Partnership Project, Plaquemines, and Jefferson Parish, LA (H.004791)**<br>**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. |
| 04/21 - Ongoing | **Rural Bridge Replacement Initiative Phase II (South), LA (16 Projects) (440001338), Various Locations, LA**<br>**Principal-in-Charge.** Waggoner is leading engineering design and coordination for the replacement of 29 state highway bridges across five LADOTD districts, organized into 16 concurrent projects. The team is responsible for preliminary and final roadway and bridge design, drainage and structural engineering (including reinforced concrete components and prestressed girders), ROW determination, and environmental coordination for NEPA compliance. Waggoner collaborates with subconsultants and maintains regular client communication to ensure timely submittals and effective project alignment. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

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| Name | **Robert J. Lear, Jr., PE, LSI** | Years of Relevant Experience with this Employer | 27 |
| Title | Vice President / Transportation Market Sector Lead | Years of Relevant Experience with Other(s) Employers | 3 |
| Degree(s) / Years / Specialization | | BS / 1996 / Civil Engineering | |
| Active Registration Number / State / Expiration Date | | PE# 29394 / LA / 03-31-2027 | |
| Year Registered | 2001 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | | QA/QC Manager / Construction Support \| **Meets MPR #3** | |

Robert will be responsible for the **day-to-day management of the IDIQ Contract,** ensuring all **task orders are executed according to scope, schedule, and budget**. He will **oversee the preparation of preliminary and final plans,** coordinate with all team members, and ensure compliance with LADOTD guidelines while incorporating environmental and constructability reviews. With over **20 years of LADOTD project design and management experience,** Robert will provide **QA/QC oversight** to ensure each project meets LADOTD's goals and is delivered 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). |
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| 02/16 - Ongoing<br>SECTION 17 PROJECT | **Pecue Lane/I-10 Interchange - Phase III, East Baton Rouge Parish, LA**<br>**Road Design.** Robbie is providing road design for the project widened two prestressed concrete girder structures over Ward's Creek along the mainline I-10 roadway. Both structures were widened under traffic. The design matched the existing structure type utilizing current AASHTO LRFD Bridge Design manual and design criteria. Waggoner's project scope included the replacement of a slab span structure over Ward's Creek along the local roadway south of the proposed interchange structure. |
| 05/20 - Ongoing<br>SECTION 17 PROJECT | **I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)**<br>**Roadway Design Engineer.** Robbie Lear served as the Roadway Design Engineer for the I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR) project, contributing to the design of roadway widening, interchange improvements, frontage roads, and access management modifications throughout the corridor. His responsibilities included development of roadway geometrics, profile design, typical sections, quantities, design reports, and plan preparation utilizing MicroStation and InRoads/OpenRoads. As part of the overall corridor improvements, Robbie also contributed to the geometric design of several roundabout configurations, including the single-lane roundabout at Terrace Street and Braddock Street, the multi-lane roundabout configuration at Dalrymple Drive and the I-10 entry/exit ramps near East Lakeshore Drive, and the double roundabout interchange at Lori Burgess Avenue and the I-10 ramps. He coordinated closely with LADOTD, the CMAR contractor, and the multidisciplinary design team to develop practical and constructable solutions that maintained corridor operations throughout phased construction. |
| 10/12 - Ongoing<br>SECTION 17 PROJECT | **Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)**<br>**Project Manager.** Robbie served as the Roadway QA/QC Manager for this 2.2-mile urban roadway capacity improvement project along Hooper Road (LA 408) in Central, Louisiana. The project widened the existing two-lane roadway to a four-lane boulevard with complete streets accommodations and included pavement preservation improvements, roadway widening, drainage enhancements, and access management features. Robbie provided roadway quality assurance and technical oversight throughout plan development and also contributed to the geometric design of the proposed three-leg roundabout at LA 408 and Lovett Road. His responsibilities included multidisciplinary coordination, constructability review, and ensuring compliance with LADOTD roadway design standards and project delivery requirements. |

## Robert Lear resume continued

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| 08/18 – 10/22<br>SECTION 17 PROJECT | **I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)**<br>**Project Engineer.** Robbie Lear served as the roadway design leader for the I-220/I-20 Interchange Improvements and BAFB Access Design-Build project in Bossier Parish for LADOTD. Robbie was responsible for coordination and development of roadway geometry, profile design, cross sections, hydraulic coordination, maintenance of traffic coordination, and overall roadway plan development associated with the interstate and arterial roadway improvements. He also supported phased construction sequencing, quantity calculations, and coordination with the design-build contractor and LADOTD throughout the accelerated project delivery schedule, including development of a separate clearing and grubbing package to support early construction activities. |
| 09/22 - Ongoing<br>SECTION 17 PROJECT | **LA 1088: Soult and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)**<br>**Project Manager.** This project included replacing two intersections and the connecting two-lane urban arterial with roundabouts and a four-lane boulevard section. Robbie served as Project Manager, overseeing all aspects of project delivery including roadway geometrics, design reports, technical calculations, and plan development. He led the design team in evaluating the addition of two new roundabouts and assessing roadway design constraints to determine optimal locations and approaches. Robbie ensured the design effectively tied into existing conditions while maintaining access and minimizing impacts throughout the corridor. |
| 10/16 - Ongoing | **I-10: Highland to LA 73 Design-Build, East Baton Rouge and Ascension Parish, LA (H.009250)**<br>**Road Design Manager and SUE Manager.** Robert was the roadway design engineer and SUE manager for this LADOTD design build project. The project includes widening I-10 for 6.6 miles to three-lanes in each direction from the Highland Road Interchange to the LA73 Interchange. He was responsible for the roadway geometrics for interstate widening and ramp terminal upgrades. He also managed the utility coordination and locating efforts for the contractor during construction. This included QL-A locates for a 16-inch water line and 14-inch duct bank along Highland road, and relocation coordination for various telecommunication lines. |
| 03/03 - Ongoing | **LA 1 Improvements: Fourchon-Golden Meadow, Lafourche Parish, LA (700-29-0112 \| H.008145 \| H.004526)**<br>**Project Manager, Road Design Engineer, Permitting Manager.** Robert has served multiple roles for this multi-phase mega project to add 17 miles of tolled bridge on new alignment through coastal Louisiana. During Phase 1 (Fourchon-Leeville), he designed roadway, geometrics, permanent signing, permanent striping, roadway lighting, construction canal dredging plans, marsh creation mitigation plans, and provided construction support. He performed CE&I/OV services for the toll gantry, roadway lighting, electrical systems, wayfinding signage, permanent signing, and new toll building. He also prepared and secured all construction permits (USACE, DNR, USCG, DEQ) for Phases 1 and 2. He prepared demolition plans for the old Bayou Lafourche bridge substructure, as well as coordinated SUE and utilities for all pipeline in the active oil and gas field. This project included both pavement preservation and capacity functional classifications. |
| 03/13 - 07/22 | **I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)**<br>**I-10: LA 328 to LA 347, St. Martin Parish (H.003014)**<br>**I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)**<br>**Project Manager and Lead Road Design Engineer of Record.** Robert served as the project manager and lead road design engineer of record for capacity and pavement preservation improvements for I-10 in Lafayette. These three projects were designed concurrently under a road design retainer and constructed under three separate construction contracts. He designed roadway geometrics, drainage, graphical grades, ramp terminals, roundabout intersections, and construction sequencing. He also coordinated the multi-discipline plan set packaging, quantity computations, specs, special provisions, pay items, design reports, design waivers, design exceptions, and utility conflicts. He played an active role in construction support as well. This project included both pavement preservation and capacity functional classifications. |
| 01/13 - Ongoing | **I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, (H.002868)**<br>**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. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:**

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| Name | **Cal Joy, PE** | Years of Relevant Experience with this Employer | 1 |
| Title | Transportation Discipline Manager | Years of Relevant Experience with Other(s) Employers | 12 |

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| Degree(s)/Years/Specialization | | BS / 2012 / Civil Engineering | |
| Active Registration Number/State/Expiration Date | | PE#43830 / LA / 03-31-2028 | |
| Year Registered | 2019 | Discipline | Civil Engineering |
| Contract Role(s)/Brief Description of Responsibilities | | Roadway & Drainage Design | |

Cal brings over 12 years of experience delivering **roadway, multimodal, and safety improvement projects** for state DOTs, MPOs, parishes, and federal clients. His expertise includes managing roadway design from **planning and Stage 0 through final plans**, leading **multi-discipline teams, and overseeing budgets, schedules, QA/QC, and client coordination.** Cal has led roadway alignments, intersection improvements, safety enhancements, and multimodal corridors while serving as a trusted seller-doer and primary client interface on **projects up to $1 million** in fee.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 06/21 - 01/26 | **New Roundabout at LA 931 and Roddy Road, Ascension Parish, Gonzales, LA**<br>**(Prior Firm) Design Lead.** This intersection historically involved high frequency and high severity crashes. This project is funded through the Move Ascension Initiative and addresses traffic mobility and safety issues. Cal and his team provided design services for a new single lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services include preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), electrical lighting design, subsurface drainage, permit application, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. This local roadway intersects a state route, resulting in LADOTD project permit requirements. The design will comply with state and federal guidelines and receive LADOTD review and approval. |
| 03/21 - 06/21 | **LA 3040 Corridor Improvements Study, LADOTD, Houma, LA (Prior Firm)**<br>**Project Manager.** Cal led a Stage 0 Feasibility Study for the LADOTD to improve safety and operations along 2.5 miles of LA 3040 (MLK Blvd) in Houma, LA. The study included traffic data collection, crash analysis, road safety assessments, and capacity analysis to identify deficiencies and develop context-sensitive alternatives. Short-term improvements were proposed such as targeted signalization and access modifications, as well as a long-term median-divided alternative with protected U-turns to reduce conflict points and enhance mobility. The study provided LADOTD with actionable, cost-effective solutions aligned with community needs and agency goals. |
| 02/17 - 09/20 | **Endom Bridge Approach Realignment, Ouachita Parish, Safe Routes to Schools/Local Road Safety Program in West Monroe, LA**<br>**(Prior Firm) Project Manager.** This intersection at Endom Bridge had sight distance issues and safety concerns coming off the bridge, along with high pedestrian volume in the area. Intersection realignment improvements were made for better sight distance, allowing trucks to make adequate turning movements off the bridge, and safely transporting pedestrians off the bridge and into the neighborhoods. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

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| Name | **Kelsie Bankston, PE** | Years of Relevant Experience with this Employer | 5 |
| Title | Project Engineer | Years of Relevant Experience with Other(s) Employers | 3 |
| Degree(s) / Years / Specialization | BS / 2018 / Civil Engineering | | |
| Active Registration Number / State / Expiration Date | PE# 47126 / LA / 03-31-2027 | | |
| Year Registered | 2022 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Road & Drainage | | |

Kelsie is a **licensed Professional Engineer** with hands-on experience in **roadway and drainage design, topographic survey interpretation**, and **bridge inspection support**. Her background includes site visits, reporting, and plan development for bridge replacements and roadway improvements. For this contract, Kelsie will support the roadway design team, focusing on the collection and interpretation of **topographic survey data i**ncluding drainage structures, travel lanes, shoulders, and utility locations. She will assist in developing **preliminary and final plans i**n full conformance with **LADOTD's Roadway Design Procedures** and **Details Manual** and the **Off-System Highway Bridge Program** requirements. Kelsie's field and design experience will help ensure the delivery of accurate, high-quality roadway plans that meet project scope and 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). |
|---|---|
| 10/21 - Ongoing<br>SECTION 17 PROJECT | **I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)**<br>**Project Engineer.** Kelsie assisted in the roadway design development for the I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR) project in East Baton Rouge Parish. Her responsibilities included development of roadway geometrics, profile and superelevation design, typical sections, grading, quantity calculations, and preparation of roadway plan sheets for multiple interstate, ramp, frontage road, and surface street improvements throughout the corridor. Kelsie also contributed to the design and coordination of several roundabout configurations associated with the project, including the single-lane roundabout at Terrace Street and Braddock Street, the spiral/partial double roundabout system at Dalrymple Drive and the I-10 ramps near East Lakeshore Drive, and the interchange "dogbone/dumbbell" roundabout configuration at Lori Burgess Avenue and the I-10 ramps. She was responsible for documenting and tracking design modifications, coordinating review comments, and supporting phased submittals throughout project development. |
| 2021 – 02/23<br>SECTION 17 PROJECT | **LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane), East Baton Rouge Parish, LA (H.010652)**<br>**Road Design Engineer.** Kelsie was a road design engineer for this pavement preservation project. She was responsible for preparing the design report, geometric details, typical section, sidewalks, pay items, quantity computations, summary tables, and developing the 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. |
| 10/20 – Ongoing | **Rural Bridge Replacement Initiative, LA**<br>**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. |
| 05/21 – 03/23 | **LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)**<br>**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. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

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| Name | **Bryan Harmon, PE** | Years of Relevant Experience with this Employer | 10 |
| Title | Vice President / Special Projects Engineer | Years of Relevant Experience with Other(s) Employers | 34 |
| Degree(s) / Years / Specialization | BS / 1981 / Agricultural Engineering \| BS / 1982 / Civil Engineering | | |
| Active Registration Number / State / Expiration Date | PE# 22595 / LA / 03-31-2027 | | |
| Year Registered | 1987 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Road & Drainage | | |

Bryan will serve as a key member of the **road and drainage team**, overseeing the **design and engineering review process.** He will ensure that preliminary and final designs meet **LADOTD standards and guidelines**, with a focus on drainage system improvements, **bridge hydraulic structure sizing and scour analysis,** pavement conditions, and ROW considerations. Bryan will also provide expert input during construction phase services, ensuring adherence to specifications and resolving design-related issues. His extensive experience managing large-scale infrastructure projects will help **ensure quality and timely project delivery**.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 10/20 - Ongoing<br>SECTION 17 PROJECT | **I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR, East Baton Rouge and West Baton Rouge Parish, LA (H.004100)**<br>**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. |
| 10/12 - Ongoing<br>SECTION 17 PROJECT | **Hooper Road Widening (LA 408) Blackwater - Joor, East Baton Rouge Parish, LA (H.002316)**<br>**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. |
| 08/18 – 10/22<br>SECTION 17 PROJECT | **I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)**<br>Bryan was responsible for the evaluation and design of both the existing and proposed drainage systems for this new four-lane rural arterial and roadway. In addition to the standard DOTD drainage evaluations for storm drain systems (inlets, pipes, box culverts, and bridges) consideration of impacts to the surrounding floodplain storage basins and wetlands had to be considered. The floodplain area along the southern limits of the project is also bisected by the KCSRR and is subject to significant backwater and overbank flooding from Red Chute Bayou. Due to the floodplain complexities associated with this lateral overflow storage area, coordination with the Bossier Levee District was required which included utilizing elements of their 2-D Unsteady Flow Hec Ras Model for this region. Due to the lateral overflows and interchange of flows, consideration of bridge scour was evaluated for the KCSRR Overpass utilizing the HEC -RAS computer model. |
| 08/21 – 05/23<br>SECTION 17 PROJECT | **LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane), East Baton Rouge Parish, LA (H.010652)**<br>**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. |

**Bryan Harmon resume continued**

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| 10/16 - Ongoing | **I-10: Highland to LA 73 Design-Build, East Baton Rouge and Ascension Parish, LA (H.009250)**<br>**Design & Construction Liaison and Design Engineer.** Bryan is serving as the project design and construction Liaison for the project. He is responsible for coordinating design and construction efforts to ensure a cost effective and efficient delivery process. Bryan also serves as a design engineer for the open ditch and subsurface drainage systems for this 6.7-mile interstate capacity improvement project for LADOTD. |
| 03/13 – 07/22 | **I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003)**<br>**I-10: LA 328 to LA 347, St. Martin Parish (H.003014)**<br>**I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)**<br>**QA/QC.** Bryan performed roadway and drainage design for these three segments of I-10. He also performed superelevation computations and graphical grades to provide positive drainage along relatively flat grades in the median of the interstate. He was also responsible for QA/QC of the roadway plans and sequence of construction for the LA 347 roundabouts and roadway improvements. This project included both pavement preservation and capacity functional classifications. |
| 05/21 – 03/23 | **LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)**<br>**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)**<br>**Road Design and Drainage Design Reviewer.** Bryan is serving as both a road design and drainage design reviewer, providing support services to DOTD for this project. This project consists of modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits. 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 DOTD 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. |
| 04/21 - Ongoing | **Rural Bridge Replacement Initiative Phase II (South), LA (440001338)**<br>**Hydraulic Design Engineer.** Bryan is serving as Waggoner's (formerly Sigma) supervising Hydraulic Design Engineer for the Phase II Rural Bridge Replacement Initiative. Hydrologic and hydraulic evaluations are being developed to provide a hydraulically suitable replacement for the existing bridge structures that have been designated for replacement under this program. All bridge hydraulic reports, data forms, and data tables are being prepared in accordance the current LADOTD Hydraulics manual and design directives. |
| 04/18 - Ongoing | **Belle Chasse Bridge and Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parishes, LA (H.004791)**<br>**Lead Drainage Engineer.** Waggoner (formerly Sigma) is providing the drainage design for this major highway improvement that is being designed and constructed under this alternative delivery method. Bryan is serving as the lead drainage engineer and is responsible for the coordination and proper consideration of the impacts that the large multi-jurisdictional pumped drainage outfall systems have on the project drainage system performance. Project drainage considerations include bridge deck scupper design conforming to FHWA HEC 21 requirements, and standard storm drainage piping and inlet design for associated local roadway improvements. The drainage system design must account for the final full build conditions but must also function during the various construction sequences with the addition of temporary systems. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

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| Name | **Joshua Renard, PE** | Years of Relevant Experience with this Employer | 19 |
| Title | Project Manager / Technical Director | Years of Relevant Experience with Other(s) Employers | 1 |
| Degree(s) / Years / Specialization | | BS / 2006 / Civil Engineering | |
| Active Registration Number / State / Expiration Date | | PE# 36015 / LA / 03-31-2027 | |
| Year Registered | 2011 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | | Road & Drainage / Discipline Lead - Subsurface Utility Engineering Services | |

Joshua will serve in a **dual role** on the **road and drainage team** as well as the Subsurface Utility Engineering (**SUE) services team**. He will perform **topographic surveys** with a focus on **stationing and cross-sectioning of roadways** and contribute to the **detailed design of drainage systems.** In his role as **SUE Discipline Lead,** Joshua will be responsible for identifying and documenting subsurface utilities, ensuring accurate **location and mapping of all utilities** within the project limits. He will coordinate with **utility companies** and integrate **utility adjustments** into preliminary and final design plans in full compliance with **DOTD standards**. Joshua brings extensive technical expertise in **HEC-RAS, HYDRWIN,** and **PondPack software**, supporting precise hydraulic and drainage modeling.

| 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<br>SECTION 17 PROJECT | **Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)**<br>**Project Manager.** Josh served as the Project Manager for the Hooper Road Widening (LA 408) project in East Baton Rouge Parish for the City of Central. The project widened approximately two miles of the existing rural roadway to a four-lane boulevard with complete streets accommodations, drainage improvements, and access management features to support continued corridor growth and development. Josh was responsible for overall project coordination, client management, multidisciplinary team oversight, and delivery of roadway and drainage design services throughout project development. The project also included the development of a roundabout at LA 408 and Lovett Road, for which Josh coordinated roadway geometric design, traffic operations considerations, constructability coordination, and integration of the roundabout into the overall corridor improvement plan. |
| 10/20 - Ongoing<br>SECTION 17 PROJECT | **I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)**<br>**SUE Project Engineer.** Joshua designed the utility duct bank plans to relocate critical existing and new fiber optic and electrical power infrastructure associated with the I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR) project in East Baton Rouge Parish. This immediate relocation effort was necessary to support the accelerated interstate widening improvements from LA 415 through Essen Lane. In addition to the duct bank relocation plans, Joshua coordinated and developed relocation concepts for existing sewer, water, gas, telecommunications, and other underground utility infrastructure impacted by the proposed roadway and interchange improvements. He worked closely with utility owners, the roadway design team, and the CMAR contractor to identify conflicts, coordinate relocation sequencing, and support phased construction throughout project implementation. |
| 08/18 – 10/22<br>SECTION 17 PROJECT | **I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)**<br>**Project Engineer.** Josh Renard supported utility identification and coordination efforts associated with the I-220/I-20 Interchange Improvements and BAFB Access Design-Build project. His responsibilities included identifying existing utility conflicts, coordinating with utility owners, and supporting utility adjustment coordination throughout the accelerated design-build delivery process. Josh also assisted with quantity calculations associated with utility and roadway improvement activities throughout the corridor. |

## Joshua Renard resume continued

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| 10/16 – Ongoing | **I-10: Highland to LA 73 Design-Build, East Baton Rouge and Ascension Parish, LA (H.009250)**<br>**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, Winn Parish, LA – Utility Coordination, QL-A through D Locates, and Relocation Plans**<br>**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 - Lead Utility Coordinator, East Baton Rouge Parish, LA**<br>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. |
| 2017 - 2018 | **LA 675 and LA 87 Improvements – SUE Services, New Iberia, LA (H.011781)**<br>**Project Manager.** Joshua served as the project manager for this DOTD 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 DOTD 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 Blvd at Earhart, Jefferson Parish, LA**<br>Joshua managed this utility location project for DOTD. The primary goal of this project was to locate sewer, water, and fiber lines to provide DOTD'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 DOTD. |
| 2015 - 2017 | **Jones Creek Road (Coursey to Tiger Bend), East Baton Rouge Parish, LA**<br>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)**<br>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 ROW. 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)**<br>**Project Manager.** Joshua served as the project manager for this DOTD 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 DOTD 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

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| Name | **Thomas Grass, PE** | Years of Relevant Experience with this Employer | 8 |
| Title | Senior Project Engineer | Years of Relevant Experience with Other(s) Employers | 10 |
| Degree(s) / Years / Specialization | BS / 2007 / Civil Engineering | | |
| Active Registration Number / State / Expiration Date | PE# 25464 / MS / 2026 | | |
| Year Registered | 2014 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Road & Drainage | | |

Thomas will serve on the **road and drainage team** and will work closely on the **detailed topographic surveys**, focusing on **stationing and cross-sectioning of roadways**. He will be responsible for identifying and documenting **drainage structures** and any **utilities that need adjustments** during construction. Thomas' work will support the preparation of the **preliminary and final plans**, ensuring compliance with **DOTD's standards**. Thomas joined Waggoner in 2018, bringing ten years of experience in **project management, 2D and 3D roadway design, traffic signal design**, and **bridge design.** His expertise also includes commercial and passenger railroad design, traffic impact studies, roadway safety audits, and traffic planning and modeling. These projects have ranged from small projects with short deadlines to long-running, multi-disciplinary projects.

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

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

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| Name | **Charlotte Gremillion, PE** | Years of Relevant Experience with this Employer | 5 |
| Title | Project Engineer | Years of Relevant Experience with Other(s) Employers | 2 |

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|---|---|---|---|
| Degree(s) / Years / Specialization | | BS / 2018 / Civil Engineering | |
| Active Registration Number / State / Expiration Date | | PE# 47930 / LA / 09-30-2027 | |
| Year Registered | 2023 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | | Road & Drainage | |

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

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 10/20 - Ongoing<br>SECTION 17 PROJECT | **I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR, East Baton Rouge and West Baton Rouge Parish, LA (H.004100)**<br>**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, technical reviews, and prepares construction plans for several stages, phases, and segments of the project. She 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. |
| 09/22 - Ongoing<br>SECTION 17 PROJECT | **LA 1088: Soult and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)**<br>**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. |
| 03/25 - Ongoing | **LA 933 at Joe Sevario Road, Ascension Parish, LA (H.014409)**<br>**Project Engineer.** This project included replacing the existing all-way stop-controlled intersection with a modern single-lane roundabout to improve safety and traffic operations. Charlotte's responsibilities included roadway geometrics, design reports, technical calculations, and plan development. She developed typical sections and geometric layouts for the roundabout and approach roadways, while evaluating site constraints, drainage considerations, and constructability. Charlotte also ensured the design tied seamlessly into existing conditions, maintaining access and minimizing impacts to adjacent properties and infrastructure. |
| 02/23 - Ongoing | **Enterprise Boulevard Extension, Lake Charles, County, LA**<br>**Project 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. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

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| Name | **Steve Gilliam, PE** | Years of Relevant Experience with this Employer | 2.5 |
| Title | Project Engineer | Years of Relevant Experience with Other(s) Employers | 7 |
| Degree(s) / Years / Specialization | BS / 2015 / Civil Engineering | | |
| Active Registration Number / State / Expiration Date | PE# 46515 / LA / 09-30-2026 | | |
| Year Registered | 2022 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Road & Drainage | | |

As part of the **road and drainage** 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, bridge hydraulic structure sizing and scour analysis,** 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 **DOTD'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). |
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| 10/20 - Ongoing<br>SECTION 17 PROJECT | **I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR, East Baton Rouge and West Baton Rouge Parish, LA (H.004100)**<br>**Project Engineer.** Steven designed the proposed drainage systems for surface streets within the I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR project in East Baton Rouge and West Baton Rouge Parish. His responsibilities included preparation of HydroWin calculations for subsurface drainage systems, drainage plan profiles, drainage maps, and coordination of proposed stormwater infrastructure throughout the corridor improvements. Steven also supported parking lot layout development, roadway drainage integration, and quantity calculations associated with drainage and roadway improvement activities throughout the project limits. |
| 10/12 - Ongoing<br>SECTION 17 PROJECT | **Hooper Road Widening (LA 3037-LA37) Route LA 408, East Baton Rouge Parish, LA (H.009300)**<br>**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 calcs, drainage plan profiles, the drainage report, and both existing and design drainage maps. |
| 09/22 - Ongoing<br>SECTION 17 PROJECT | **LA 1088: Soult and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)**<br>**Project Engineer.** This project involved replacing two intersections and the connecting two-lane urban arterial with modern roundabouts and a four-lane boulevard section. Steven performed hydrologic and hydraulic analyses and developed stormwater management solutions for the corridor, coordinating closely with roadway design to integrate drainage with roadway geometrics and grading. He also prepared detailed quantity take-offs for both drainage and roadway components, supporting cost estimating and ensuring the design was efficient, constructible, and compliant with LADOTD standards. |
| 03/25 - Ongoing | **LA 933 at Joe Sevario Road, Ascension Parish, LA (H.014409)**<br>**Project Engineer.** This project included replacing the existing all-way stop-controlled intersection with a modern single-lane roundabout to improve safety and traffic operations. Steven was responsible for drainage design and quantity calculations, supporting the development of effective stormwater management for the roundabout and approach roadways. He performed hydrologic and hydraulic analyses, evaluated site constraints, and developed drainage systems to accommodate existing conditions while minimizing impacts to adjacent properties. Steven also prepared detailed quantity take-offs to support cost estimating and project advancement, ensuring the design remained efficient, constructible, and compliant with applicable standards. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

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| Name | **Wesley Melancon, PE** | Years of Relevant Experience with this Employer | 3 |
| Title | Project Engineer | Years of Relevant Experience with Other(s) Employers | 2 |
| Degree(s)/Years/Specialization | BS / 2021 / Civil Engineering | | |
| Active Registration Number/State/Expiration Date | PE# 50614 / LA / 03-31-2028 | | |
| Year Registered | 2025 | Discipline | Civil Engineering |
| Contract Role(s)/Brief Description of Responsibilities | Roadway & Drainage Design | | |

Wesley joined Waggoner in 2023 as an Engineer Intern in the Baton Rouge office, where he has contributed to the **design and development of roadway improvement projects.** In this role, he supports project teams through **plan development, data collection, and coordination efforts,** and has gained experience in drainage design, assisting with **hydrologic and hydraulic analyses** for transportation projects.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 10/12 - Ongoing<br>SECTION 17 PROJECT | **Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)**<br>**Project Engineer.** Wesley supported both the drainage design and roadway geometrics for the Hooper Road widening project, contributing to the development of a four-lane corridor with a raised median, dedicated bike lanes, and ADA-compliant features. He assisted in hydrologic and hydraulic analyses and the design of stormwater systems, including roadside drainage, subsurface conveyance, and outfall considerations to ensure effective water management throughout the corridor. Wesley also contributed to roadway geometric design, including horizontal and vertical alignments and typical sections, ensuring consistency with LADOTD standards. Additionally, he assisted in preparing quantity take-offs and cost estimates to support project budgeting and design progression. |
| 10/21 - Ongoing<br>SECTION 17 PROJECT | **I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)**<br>**Project Engineer.** Wesley supported the design of stormwater drainage systems for this major interstate improvement project, contributing to the development of effective water management solutions for the interstate mainline, frontage roads, ramps, and associated outfalls. He assisted in hydrologic and hydraulic analyses to support the drainage design, ensuring compliance with LADOTD standards and project requirements. In addition to drainage, Wesley contributed to roadway design efforts, supporting plan development for roadway geometrics and typical sections. He also assisted in the preparation of quantity take-offs and cost estimates, helping to support project budgeting and advancement through the CMAR delivery process. |
| 05/23 - Ongoing | **Carroll Avenue over Middle Creek Colyell Creek, Livingston Parish, LA**<br>**Project Engineer.** Kelsie provided checking for the roadway and drainage design and plans. The work included assuring proposed design criteria met minimum design guidelines with consideration for practical design fitting assessed site conditions. Kelsie is checking the geometric layout (horizontal and vertical), drainage calculations, typical sections and cross sections, and quantity computations. 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 ROW maps all while adhering to rigorous quality control measures. |
| 07/19 - Ongoing | **MOVEBR Program Management, East Baton Rouge Parish, LA:**<br>**Project Engineer.** Wesley assisted in project management and the preparation of bid packages for various projects under the MOVEBR program. This $1.0 billion initiative is the largest transportation infrastructure program in East Baton Rouge Parish's history. Funded by a tax proposition, the program aims to increase roadway capacity and enhance safety, mobility, and access management. Additional improvements include pavement resurfacing, traffic signal synchronization, turn lane upgrades, drainage enhancements, lighting, ADA compliance, and Complete Street elements such as cycling paths, sidewalks, transit accommodations, and Green Infrastructure. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

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| 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 / 2010 / Civil Engineering | | |
| Active Registration Number / State / Expiration Date | PE# 39042 / LA / 09-30-26 | | |
| Year Registered: 2014 | Discipline: Civil Engineering | | |
| Contract Role(s) / Brief Description of Responsibilities | Discipline Lead - Bridge / Construction Support | | |

Andrew is a **licensed civil engineer** with more than **15 years of experience in bridge design**, including 13 years with LADOTD. As Assistant Bridge Design Administrator for LADOTD (2021–2023), he **managed a $240 million statewide bridge program**, directing planning and design for rehabilitation and replacement projects in accordance with **DOTD standards and QA/QC procedures**. For this IDIQ Design Services contract, Andrew will guide **bridge design, hydraulic coordination, survey integration, and construction support services**, ensuring all task orders are completed in compliance with **DOTD manuals, procedures**, and electronic deliverable standards. His extensive LADOTD experience and knowledge of District 61 bridge priorities position him to support efficient and responsive project delivery.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 02-16 - Ongoing<br>SECTION 17 PROJECT | **Pecue Lane/I-10 Interchange - Phase III, East Baton Rouge Parish, LA (H.003047)**<br>**Bridge Designer.** Andrew is performing bridge design for this project. East Baton Rouge Parish with assistance from LADOTD and the Federal Highway Administration (FHWA) is developing preliminary and final engineering plans for the construction of a diverging diamond interchange with multiple through and turn lanes on Pecue Lane, an entrance ramp and exit ramp on eastbound I-10, an entrance ramp and exit ramp on westbound I-10, replacing the current two lane overpass bridge, replacing the Pecue Lane/Wards Creek Bridge. |
| 03/13 - 12/19 | **I-10: I-49 E. Junction to LA 328 Widening Project, Lafayette, LA**<br>**Lead Bridge Design Engineer.** Andrew led the bridge design on this project that included the widening or full replacement of 12 bridge structures (six unique sites) along the I-10 mainline. The scope of this project included the initial assessment of each bridge to provide recommendation on widening versus replacement, while factoring in current condition, load-carrying capacity, and feasibility of construction. During Stage 3 of the project, Andrew led the structural team, ensuring the design were performed with great quality following LADOTD's QC/QA plan. |
| 04/21 - Ongoing | **Rural Bridge Replacement Initiative Phase II (South), LA (16 Projects) (440001338), Various Locations, LA**<br>**Project Manager.** Andrew was the project manager for this project. Waggoner is leading engineering design and coordination for the replacement of 29 state highway bridges across five LADOTD districts, organized into 16 concurrent projects. The team is responsible for preliminary and final roadway and bridge design, drainage and structural engineering (including reinforced concrete components and prestressed girders), ROW determination, and environmental coordination for NEPA compliance. Waggoner collaborates with subconsultants and maintains regular client communication to ensure timely submittals and effective project alignment. |
| 2010 - 2023 | **LADOTD Bridge Design Section**<br>**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. Previous firm experience. |

## Andrew Windmann resume continued

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| 06/23 - Ongoing | **Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA**<br>**Bridge Design.** Waggoner was contracted by the East Baton Rouge Parish Department of Transportation and Drainage through the MOVEBR Program to design the extension of Jones Creek Road from the existing Tiger Bend Rd intersection to a new terminus point on Airline Highway. The project includes a 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. |
| 2011-2013 | **Cross Bayou and Relief Bridges, Caddo, LA (H.000102)**<br>**Bridge Designer.** Andrew served as a designer on this project that included the replacement of the two existing concrete deck girder bridges with chorded AASHTO Type III PPC girders on reinforced concrete pile bents. These new bridges were constructed on new projected and adopted alignments to smooth out the existing substandard roadway geometry. Andrew performed all structural calculations, detailing, and quantity accumulation along with preparing construction cost estimates at each progressing milestone. He also provided construction-related engineering services throughout construction which included responding to contractor RFIs and contractor proposals, as well as reviewing required contractor submittals (i.e. working drawings and proposals) |
| 06/17 - 10/23 | **LA 20: Bayou Chevreuil Bridge, St. James, LA (H.009481)**<br>**Project Manager.** Andrew served as the project manager and provided review of the bridge design on this project that included the replacement of a functionally obsolete and geometrically substandard 28'x350' concrete girder bridge with a 40'x835' LG girder bridge with slab span approaches. The replacement bridge was significantly lengthened to provide adequate sight distance traversing the vertical curve and was wider to provide additional space for the rural farm and hauling vehicles that used this highway. As project manager, Andrew ensured the project met scope, schedule, and budgetary needs while coordinating with local governmental interests and a boat launch on site. As the bridge design reviewer, Andrew ensured that the bridge plans were created and checked in conformance with all QC/QA policy requirements and provided comments towards the constructability of the proposed new structure. |
| 02/24 - Ongoing | **BREC Scotlandville Parkway Bridge Replacements, East Baton Rouge Parish, LA**<br>**Project Manager.** Andrew is the project manager and bridge engineer for designing three new bridge structures for pedestrian and small vehicle traffic. He is responsible for bridge design, geotechnical subconsultant management, construction and demolition plan development, site plans, quantities, construction cost estimates, and channel protection. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

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| 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# 40859 / LA / 09-30-2026 | | |
| Year Registered: 2016 | Discipline: Civil Engineering | | |
| Contract Role(s) / Brief Description of Responsibilities | Bridge | | |

Joshua has extensive experience in **bridge design, rehabilitation, replacement, widening, culvert design, and load rating analysis**. He is a NHI Certified Bridge Inspector, **NHI Certified Fracture Critical Inspector,** and **S-BRITE Certified in Steel Fatigue Inspection**, bringing strong inspection and evaluation expertise to support both design and construction phases. As part of this IDIQ Design Services contract, Joshua will contribute to **bridge design** services, including the development of economical and constructible designs that align with **LADOTD standards and project requirements.** His ability to balance safety, durability, and cost-effectiveness ensures that deliverables meet project goals while maintaining budget efficiency.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 02/16 - Ongoing<br>SECTION 17 PROJECT | **Pecue Lane/I-10 Interchange - Phase III, East Baton Rouge Parish, LA**<br>**Designer.** The design involves widening under traffic conditions. Josh is responsible for ensuring that the design matches the existing structure type but updates to meet the current AASHTO LRFD Bridge Design manual and design criteria. His contributions are key in Waggoner's project scope, which includes replacing a slab span structure over Ward's Creek along the local roadway south of the proposed interchange structure. Joshua also oversees the coordination of traffic flow during construction, ensuring minimal disruption while maintaining safety standards and compliance with environmental regulations. |
| 09/13 - 08/17 | **Load Rating and Posting of On-System Bridges, LADOTD, Statewide, LA**<br>**Lead Load Rating Engineer.** Joshua was the lead load rating engineer for this project. He was responsible for developing LRFR load rating procedures using AASHTOware BrR for superstructures, and LEAP RC Pier for substructures while working closing with LADOTD personnel. All structures were rated per AASHTO MBE utilizing LADOTD guidelines. Procedures were coordinated with LADOTD to assist in the further refinement of LADOTD BDEM Volume 5 Chapter 6 on load ratings. This project covered a wide variety of bridge superstructure types including: timber, reinforced concrete girders and slabs, prestressed concrete girders, steel trusses, steel plate girders, and steel rolled beams as well as various substructure types. |
| 05/14 - 05/15 | **Essen Lane over Wards Creek Bridge Widening, LADOTD, Baton Rouge, LA**<br>**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. |
| 05/16 - 12/16 | **US 82 over Mississippi River In-Depth Bridge Inspection and Load Rating, MDOT, Greenville, MS**<br>**Field Team Leader and Load Rater.** Joshua served as a field team leader and load rater for the in-depth inspection, fracture critical, and element level inspection of the US 82 over the Mississippi river bridge. This project consisted of collecting field data utilizing National Bridge Elements, fracture critical elements, and in-depth hands-on SPRAT access inspectors of 112 stay cables. The findings were used to develop an overall bridge report and load rating. |

## Joshua Gonya resume continued

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| 05/18 - 05/20 | **Worthsville Road over Tracy Ditch Bridge Replacement, Greenwood, IN**<br>**Project Manager and Lead Designer.** Joshua was the project manager and lead designer. He completed the design of a 72'-6" singlespan, 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. Previous firm experience. |
| 05/19 - 08/20 | **SR 15 over Eagle Creek Bridge Replacement, Kosciusko County, INDOT, Kosciusko County, IN**<br>**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. Previous firm experience. |
| 08/18 - 07/19 | **SR 3 over Willow Creek Rehabilitation, INDOT, Allen County, IN**<br>**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. Previous firm experience. |
| 08/18 - 07/19 | **SR 101 over Hamm Ditch Rehabilitation, INDOT, Allen County, IN**<br>**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. Previous firm experience. |
| 08/17 - 09/22 | **Central Office Load Rating Contract, INDOT, Statewide, IN**<br>**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). Previous firm experience. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

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| Name | **Jace Ricard, PLS** | Years of Relevant Experience with this Employer | 3 |
| Title | Land Surveyor | Years of Relevant Experience with Other(s) Employers | 10 |
| Degree(s) / Years / Specialization | | BS / 2014 / Geomatics | |
| Active Registration Number / State / Expiration Date | | PLS# 5205 / LA / 09-30-2027 | |
| Year Registered | 2019 | Discipline | Surveying |
| Contract Role(s) / Brief Description of Responsibilities | | Discipline Lead - Topographic Survey / ROW Services \| **Meets MPR 4** | |

Jace will be part of both the **topographic survey and property/ROW mapping teams.** He will conduct **field measurements, stationing project centerlines,and gathering data** on drainage structures and roadway cross-sections. He will support the preparation of **ROW maps** and help ensure that all data collected meets DOTD's quality standards. Additionally, he will collaborate with the design team to integrate survey findings into the project plans. Jace joined Waggoner in 2023 as **Survey Department Manager**.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 10/12 - Ongoing<br>SECTION 17 PROJECT | **Hooper Road Widening (LA 408) Blackwater - Joor, East Baton Rouge Parish, LA (H.002316)**<br>**Land Surveyor.** Jace served as the land surveyor of record for the property survey and ROW maps for this MOVEBR project, which included widening Hooper Road between Blackwater Road and Joor Road from an existing two-lane roadway to a four-lane boulevard with sidewalks. A total of 86 parcels were included in the ROW maps. Jace was responsible for performing the property survey and preparation of the property map, acquisition ROW maps, and recordation ROW maps in accordance with LADOTD standards. This project included both pavement preservation and capacity functional classifications. |
| 5/23 - Ongoing | **Hood Road over Colyell Creek, Livingston Parish, LA**<br>**Surveyor and ROW Lead.** Jace is the land surveyor of record for topographic survey, property survey, and ROW maps for this project. The topographic survey involved establishing horizontal and vertical control while acquiring detailed surface features, channel features, existing utilities through coordination, and bridge features. Utilizing the information gathered, his team generated a comprehensive topographic map and 3D digital terrain model, providing a robust foundation for design and construction. Jace also prepared existing property maps along with corresponding acquisition and recordation right-of-way maps in accordance with LADOTD Location and Survey standards. 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 AASSHTO 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. |
| 5/23 - Ongoing | **Sawmill Road over Creek, St. Helena Parish, LA**<br>**Surveyor.** Jace is the surveyor of record for the topographic and property surveys and ROW maps for this LADOTD bridge replacement project. He was responsible for establishing local horizontal and vertical control, collecting all roadway, bridge, drainage, utility, and miscellaneous features topography, generating a survey map and digital terrain model, and establishing the existing centerline. He is also responsible for preparing the existing property map and proposed ROW maps. |

## Jace Ricard resume continued

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| 5/23 - Ongoing | **M. Williams Road over Spring Creek, Tangipahoa Parish, LA**<br>**Surveyor.** Jace is the surveyor of record for the topographic and property surveys and ROW maps for this LADOTD bridge replacement project. He was responsible for establishing local horizontal and vertical control, collecting all roadway, bridge, drainage, utility, and miscellaneous features topography, generating a survey map and digital terrain model, and establishing the existing centerline. He is also responsible for preparing the existing property map and proposed ROW maps. |
| 5/23 - Ongoing | **George Jenkins Road over Barrys Creek, Washington Parish, LA**<br>**Surveyor.** Jace is the surveyor of record for the topographic and property surveys and ROW maps for this LADOTD bridge replacement project. He was responsible for establishing local horizontal and vertical control, collecting all roadway, bridge, drainage, utility, and miscellaneous features topography, generating a survey map and digital terrain model, and establishing the existing centerline. He is also responsible for preparing the existing property map and proposed ROW maps. |
| 5/23 - Ongoing | **Mitch Road over Peters Creek, Washington Parish, LA**<br>**Surveyor.** Jace is the surveyor of record for the topographic and property surveys and ROW maps for this LADOTD bridge replacement project. He was responsible for establishing local horizontal and vertical control, collecting all roadway, bridge, drainage, utility, and miscellaneous features topography, generating a survey map and digital terrain model, and establishing the existing centerline. He is also responsible for preparing the existing property map and proposed ROW maps. |
| 5/23 - Ongoing | **North Brickyard Road Bridge, Tangipahoa Parish, LA**<br>**Surveyor.** Jace is the surveyor of record for the topographic and property surveys and ROW maps for this LADOTD bridge replacement project. He was responsible for establishing local horizontal and vertical control, collecting all roadway, bridge, drainage, utility, and miscellaneous features topography, generating a survey map and digital terrain model, and establishing the existing centerline. He is also responsible for preparing the existing property map and proposed ROW maps. |
| 06/23 - Ongoing | **Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA**<br>**Land Surveyor.** Jace is the land surveyor of record for topographic survey updates and ROW map revisions for this MOVEBR project, which includes extending Jones Creek Road on a new alignment from Tiger Bend Road to Airline Highway. Jace prepared recordation and acquisition set ROW map revisions. 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. |
| 02/24 - Ongoing | **BREC Scotlandville Parkway Bridge Replacements, East Baton Rouge Parish, LA**<br>**Survey Manager.** Jace served as survey manager for this project, an evaluation and assessment of three bridges along a three-mile parkway along I-110 in North Baton Rouge with multiple recreational facilities. Waggoner's services for this project include topographic survey, construction drawings, bidding assistance, construction administration, and geotechnical services for the demolition, construction, and installation of three small vehicle and pedestrian replacement bridges at the parkway. The new bridges will restore access along the greenway trail at two locations and provide new access to the Disc Golf Course. The topographic survey involved establishing horizontal and vertical control at the three new bridge sites and two existing bridge sites slated for demolition, with all five sites tied together for consistency. Field surveying captured detailed topography of ground features, channels, bayous, bridge structures, utilities, trails, and pathways. Using a combination of RTK GPS, terrestrial scanning, and conventional total station methods, the team generated a comprehensive topographic map and a 3D digital terrain model in Civil3D, providing a robust foundation for design and construction. |
| 06/23 - Ongoing | **Carrol Avenue over Middle Colyell Creek, Livingston Parish, LA**<br>**Surveyor.** Jace is the surveyor of record for the topographic and property surveys and ROW maps for this LADOTD bridge replacement project. He was responsible for establishing local horizontal and vertical control, collecting all roadway, bridge, drainage, utility, and miscellaneous features topography, generating a survey map and digital terrain model, and establishing the existing centerline. He is also responsible for preparing the existing property map and proposed ROW maps. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** WAGGONER

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| Name | **Brandon Bollich, EI** | Years of Relevant Experience with this Employer | 5 |
| Title | Engineer Intern | Years of Relevant Experience with Other(s) Employers | 6 |
| Degree(s) / Years / Specialization | BS / 2015 / Civil Engineering | | |
| Active Registration Number / State / Expiration Date | EI# 32749 / LA / 09-30-2026 | | |
| Year Registered | 2015 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Subsurface Utility Engineering Services | | |

Brandon will perform **subsurface utility engineering (SUE) investigations** to locate and document underground utilities using **geophysical methods** and **detailed field data collection.** He will integrate SUE findings into project plans to prevent construction conflicts and ensure **compliance** with **DOTD standards**. A certified Engineer Intern with LADOTD bridge replacement experience, Brandon has managed project tasks including alignment studies, site visits, and bridge design, and has conducted **bridge inspection and load rating** work at Forte & Tablada.

| 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<br>SECTION 17 PROJECT | **Hooper Road Widening (LA 408), East Baton Rouge Parish, LA**<br>**Engineer Intern.** Brandon provided bridge and structural design services for this project. This project was for the widening of an existing two-lane roadway to a four-lane boulevard to increase capacity. The project began with an Environmental Assessment (EA) and National Environmental Policy Act (NEPA) environmental documentation. Waggoner is facilitating the development of a traffic study with a subconsultant, following criteria established by LADOTD. Multiple roadway sections and intersection arrangements are being evaluated through a tiered approach. This project included both pavement preservation and capacity functional classifications. |
| 04/21 - Ongoing | **Rural Bridge Replacement Initiative Phase II, South LA**<br>**Engineer Intern.** Brandon manages four of 16 state projects for this contract, including six bridge replacements throughout south Louisiana. This work involves assessing site conditions, evaluating structure types, and designing the roadway approaches. He will prepare the submittals for these projects and submit monthly reports as work progresses. |
| 02/16 - Ongoing<br>SECTION 17 PROJECT | **Pecue Lane/I-10 Interchange, East Baton Rouge Parish, LA**<br>**Engineer Intern.** Brandon served as engineer intern for the project that included the replacement of two slab span bridges over Ward's Creek along Pecue Lane. Brandon was responsible for providing quality control by reviewing and verifying plan sheets, checking reinforcement quantities, and ensuring calculations were correctly incorporated into the plans. |
| 2016 - 2018 | **Bridge Replacements, LADOTD, Statewide, LA**<br>**Task Manager.** Brandon served as task manager of four state bridge replacement projects consisting of eight bridges at seven locations. His responsibilities included coordinating project meetings, tracking project statuses, generating divisional requests, and projecting costs. He performed several alignment studies for the bridge replacement projects and conducted site visits while analyzing relevant bridge and local conditions. Brandon created bridge plans (including general notes, general plans, superstructures, and substructures) in addition to designing bridge elements in accordance with AASHTO LRFD specifications and the LADOTD Bridge Design and Evaluation Manual. |
| 06/23 - Ongoing | **Jones Creek Road Improvements Phases 1A & 1B, East Baton Rouge Parish, LA.** Brandon provided design services for this project. Waggoner was contracted by the East Baton Rouge Parish Department of Transportation and Drainage through the MOVEBR Program to design the extension of Jones Creek Road from the existing Tiger Bend 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. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** APS Engineering and Testing

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| Name | **Sergio Aviles, PE, M. ASCE** | Years of Relevant Experience with this Employer | 14 |
| Title | President / Geotechnical Manager | Years of Relevant Experience with Other(s) Employers | 10 |
| Degree(s) / Years / Specialization | BS / 2001 / Civil Engineering / Geotechnical Engineering | | |
| Active Registration Number / State / Expiration Date | PE# 33571 / LA / 3-31-2028 | | |
| Year Registered | 2007 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Discipline Lead / Geotechnical | | |

Sergio Aviles is the President and Geotechnical Manager of APS Engineering and Testing, LLC with more than 14 years of experience leading geotechnical engineering, laboratory testing, and materials testing projects statewide. His expertise includes slope stability analysis, embankment settlement calculations, mechanically stabilized earth wall design, pile design, sheet pile design, pile integrity testing, and Pile Dynamic Analyzer testing. As Geotechnical Discipline Lead for this IDIQ Design Services contract, Sergio will oversee all geotechnical engineering services, ensuring deliverables meet LADOTD specifications, QA/QC requirements, and project schedules. His portfolio includes the design and construction supervision of complex infrastructure projects across Louisiana, where he has consistently delivered technically accurate and compliant solutions that support safe, cost-effective, and efficient project delivery.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 11/19 - Ongoing<br>SECTION 17 PROJECT | **US 90 Railroad Overpass SE of LA 85 (H.010155)**<br>A P S served on the winning team providing geotechnical investigation, foundation design support, and construction-phase services for the proposed US 90 railroad overpass southeast of LA 85. Services included a subsurface exploration program of twelve deep borings to evaluate soil stratigraphy, groundwater conditions, and engineering properties influencing deep foundations, embankments, and retaining structures. Laboratory testing supported development of design parameters and constructability recommendations. During construction, A P S provided geotechnical engineering support including PDA monitoring, CAPWAP analyses to verify pile capacity, and settlement monitoring of approach embankments. These services supported construction sequencing, verified design assumptions, and ensured the performance of foundation and earthwork systems. Sergio serves as Manager for the project. In this role, he provides direct oversight of field exploration activities, construction monitoring, PDA testing operations, settlement monitoring programs, laboratory testing, and engineering evaluations. He works closely with the contractor, field crews, and project engineers to coordinate construction activities, address subsurface conditions encountered during construction, and maintain alignment with project schedule and safety requirements. |
| 01/22 - 05/24<br>SECTION 17 PROJECT | **Comite River Diversion Bridge at LA 67, LA 19, and LA 19 RR Bridge (H.001352.6 & H.002273.5)**<br>APS was selected as part of the winning team for the Design of the Diversion CMAR project. APS performed the Geotechnical Investigation and Design for the project. The scope also included testing of subsurface soils, base materials, and concrete placement areas to evaluate compliance with design standards for the proposed roadway and bridge structures. APS performed four Pile Driving Analyzer (PDA) tests during construction monitoring to assess pile performance and verify installation criteria. Sergio served as Geotechnical Manager for the Geotechnical Investigations and Design Team, overseeing all phases of exploration, analysis, and reporting. |

## Sergio Aviles resume continued

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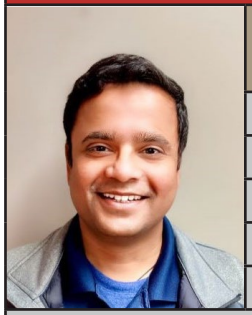
| 03/19 - 05/25 | **US 190: LA 437 to US 190 BUS (H.001344)**<br>APS was selected as part of the winning team for the Geotechnical Investigation and Design of the proposed new bridge. The scope of work included the drilling and testing of 19 deep borings to support bridge foundation design recommendations. In addition to deep foundation investigations, APS performed site-specific testing of subsurface soils, base materials, and concrete placement zones to evaluate compliance with structural and geotechnical performance criteria. Laboratory testing supported classification, strength, and constructability assessments for proposed bridge elements. APS also provided PDA instrumentation, testing, and CAPWAP analysis. Sergio served as Geotechnical Manager for the investigation and design team. He provided direct oversight of field operations, laboratory analysis, and engineering deliverables, ensuring technical accuracy, and timely completion across all phases of the project. overseeing every phase of the project with hands-on leadership to ensure technical excellence and on-time delivery. |
| 09/21 - 05/24 | **Port Hudson-Pride Road (LA-964 – LA-19)**<br>The scope included Geotechnical Investigation to enable an evaluation of an acceptable foundation for the proposed pavement rehabilitation and new bridge. A total of 26 borings were drilled and tested for Geotechnical recommendations for the City of Baton Rouge. Sergio served as Geotechnical Manager for the investigation and Design Team, overseeing every phase of the project with hands-on leadership to ensure technical excellence and on-time delivery. |
| 06/20 – 04/23 | **Rural Bridge Replacement Initiative Phase I**<br>The scope included geotechnical investigation and design for the replacement of 60 bridge structures along the LA state highway system. Geotechnical Investigation consisted of drilling, laboratory testing, soil classification, and site characterization. Engineering analysis included slope stability analysis (when applicable) and pile capacity analysis for foundations to support the new bridge structures. Sergio served as Geotechnical Manager for the Geotechnical Investigations and Design Team, overseeing every phase of the project with hands-on leadership to ensure technical excellence and on-time delivery. |
| 03/21 - 11/22 | **Nicholson Drive Segment 2 (Bluebonnet Blvd-Ben Hur Rd.)**<br>The scope included a comprehensive geotechnical investigation to support foundation recommendations for proposed pavement rehabilitation and new bridge construction. A total of 32 borings were drilled and tested to characterize subsurface conditions and develop geotechnical design parameters for the City of Baton Rouge. Sergio served as Geotechnical Manager for the Geotechnical Investigations and Design Team, providing hands-on leadership and technical oversight throughout all phases of the project to ensure accuracy, quality, and timely delivery. |
| 03/15 - 04/15 | **Holly Drive Bridge Replacement, St. Tammany Parish, LA**<br>The scope included Geotechnical Investigation for the replacement of a bridge structure in Covington, Louisiana. APS performed piles vertical resistance analyses for square PPC piles with sizes ranging 16-inch, 18-inch, and 24-inches, roadway design, and culvert design. Sergio served as Geotechnical Manager for the Geotechnical Investigations and Design Team, overseeing every phase of the project with hands-on leadership to ensure technical excellence and on-time delivery. |

## 16. STAFF EXPERIENCE:



**Firm Employed By:** APS Engineering and Testing

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|---|---|---|---|
| Name | **Sairam (Sai) Eddanapudi, PE** | Years of Relevant Experience with this Employer | 14 |
| Title | Chief Geotechnical Engineer | Years of Relevant Experience with Other(s) Employers | 9 |
| Degree(s) / Years / Specialization | MS / 2002 / Civil Engineering \| BS / 1999 / Civil Engineering | | |
| Active Registration Number / State / Expiration Date | PE# 0035129 / LA / 3-31-2028 | | |
| Year Registered | 2009 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Geotechnical | | |

Sai Eddanapudi is the Chief Engineer at APS with more than 23 years of experience in geotechnical and civil engineering. He specializes in advanced geotechnical laboratory testing, quality assurance, and personnel training, ensuring all testing meets LADOTD, ASTM, and AASHTO standards. Sai holds a Master of Science in Civil Engineering from Lamar University and a Bachelor of Technology in Civil Engineering from India (1999). At APS, Sai provides quality assurance oversight for all geotechnical laboratory operations, including training staff, managing Geosystems data integration, and maintaining testing equipment calibration to guarantee reliable results. His professional design experience includes roadways, bridges, levees, T-walls, and both shallow and deep foundation systems, supported by extensive field expertise in auger cast piles, drilled shafts, soil, and concrete quality control inspections. Sai is proficient in a wide range of engineering and geotechnical analysis software, including Slope/W, Seep/W, DRIVEN, CWALSHT, FS004, and AASHTO pavement design tools, which he applies to slope stability, seepage, settlement, and foundation analysis. His combination of technical expertise, laboratory leadership, and commitment to QA/QC ensures that APS delivers accurate, dependable, and timely geotechnical data in support of LADOTD project success.

| 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). |
|---|---|
| 11/19 - Ongoing<br>SECTION 17 PROJECT | **US 90 Railroad Overpass SE of LA 85 (H.010155)**<br>A P S served on the winning team providing geotechnical investigation, foundation design support, and construction-phase services for the proposed US 90 railroad overpass southeast of LA 85. Services included a subsurface exploration program of twelve deep borings to evaluate soil stratigraphy, groundwater conditions, and engineering properties influencing deep foundations, embankments, and retaining structures. Laboratory testing supported development of design parameters and constructability recommendations. During construction, A P S provided geotechnical engineering support including PDA monitoring, CAPWAP analyses to verify pile capacity, and settlement monitoring of approach embankments. These services supported construction sequencing, verified design assumptions, and ensured the performance of foundation and earthwork systems. Sai serves as Chief Engineer for the project design team, providing technical design leadership and managing quality assurance for all laboratory testing to ensure accuracy, compliance, and reliability of geotechnical data. |
| 09/19 – Ongoing<br>SECTION 17 PROJECT | **I-10 LA415 to Essen Lane on I-10 and I-12 (H.0041005.5 & .6)**<br>The Geotechnical Investigation comprised the advancement of 77 deep borings along the project alignment, spanning from the Washington Street Exit to the LSU Lakes. APS performed 16 over-water borings utilizing barge-mounted drilling platforms and 61 land-based borings using truck-mounted rigs. Subsurface characterization included Shelby tube sampling, Standard Penetration Testing (SPT), and split-spoon recovery to obtain representative soil profiles. Laboratory testing included approximately 1,000 tests, including Unconsolidated Undrained (UU) Triaxial Compression tests for shear strength evaluation and Atterberg Limits for plasticity classification, in accordance with ASTM standards. Pile foundation performance was assessed through dynamic testing services, including Pile Driving Analyzer (PDA) instrumentation and signal matching via CAPWAP analysis. These tests provided real-time data on pile capacity, drivability, and soil-pile interaction, supporting axial load design and installation recommendations. Sai serves as Chief Engineer for the Project Design Team, providing technical Design leadership and managing quality assurance for all laboratory testing to ensure accuracy, compliance, and reliability of geotechnical data. His leadership ensured conformance with DOT specifications, QA/QC protocols, and schedule adherence. |

**Sairam (Sai) Eddanapudi resume continued**

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| 01/22 – 05/24<br>SECTION 17 PROJECT | **Comite River Diversion Bridge at LA 67, LA 19, and LA 19 RR Bridge (H.001352.6 and H.002273.5)**<br>APS was selected as part of the winning team for the Design of the Diversion CMAR project. APS performed the Geotechnical Investigation and Design for the project. The scope also included testing of subsurface soils, base materials, and concrete placement areas to evaluate compliance with design standards for the proposed roadway and bridge structures. APS performed four Pile Driving Analyzer (PDA) tests during construction monitoring to assess pile performance and verify installation criteria. Sai served as Chief Engineer for the Project Design Team, providing technical Design leadership and managing quality assurance for all laboratory testing to ensure accuracy, compliance, and reliability of geotechnical data. |
| 03/19 - 05/25 | **US 190: LA 437 to US 190 BUS (H.001344)**<br>APS was selected as part of the winning team for the Geotechnical Investigation and Design of the proposed new bridge. The scope of work included the drilling and testing of 19 deep borings to support bridge foundation design recommendations. In addition to deep foundation investigations, APS performed site-specific testing of subsurface soils, base materials, and concrete placement zones to evaluate compliance with structural and geotechnical performance criteria. Laboratory testing supported classification, strength, and constructability assessments for proposed bridge elements. APS also provided PDA instrumentation, testing, and CAPWAP analysis. Sai served as Chief Engineer for the project design team, providing technical design leadership and managing quality assurance for all laboratory testing to ensure accuracy, compliance, and reliability of geotechnical data. |
| 06/20 – 04/23 | **Rural Bridge Replacement Initiative Phase I**<br>The scope included geotechnical investigation and design for the replacement of 60 bridge structures along the LA state highway system. Geotechnical Investigation consisted of drilling, laboratory testing, soil classification, and site characterization. Engineering analysis included slope stability analysis (when applicable) and pile capacity analysis for foundations to support the new bridge structures. Sai served as Chief Engineer for the Project Design Team, providing technical Design leadership and managing quality assurance for all laboratory testing to ensure accuracy, compliance, and reliability of geotechnical data. |
| 09/21 – 05/24 | **Port Hudson-Pride Road (LA-964 – LA-19)**<br>The scope included Geotechnical Investigation to enable an evaluation of an acceptable foundation for the proposed pavement rehabilitation and new bridge. A total of 26 borings were drilled and tested for Geotechnical recommendations for the City of Baton Rouge. Sai i served as Chief Engineer for the Project Design Team, providing technical Design leadership and managing quality assurance for all laboratory testing to ensure accuracy, compliance, and reliability of geotechnical data. |
| 03/15 – 04/15 | **Holly Drive Bridge Replacement, St. Tammany Parish**<br>The scope included Geotechnical Investigation for the replacement of a bridge structure in Covington, Louisiana. APS performed piles vertical resistance analyses for square PPC piles with sizes ranging 16-inch, 18-inch and 24-inches, roadway design, and culvert design. Sai served as Chief Engineer for the Project Design Team, providing technical Design leadership and managing quality assurance for all laboratory testing to ensure accuracy, compliance, and reliability of geotechnical data. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** APS Engineering and Testing

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|---|---|---|---|
| Name | **Surendra Pathak, PE** | Years of Relevant Experience with this Employer | 11 |
| Title | Senior Project Engineer | Years of Relevant Experience with Other(s) Employers | 10 |
| Degree(s) / Years / Specialization | MS / 2013 / Civil Engineering \| BS / 1998 / Civil Engineering | | |
| Active Registration Number / State / Expiration Date | PE# 43487 / LA / 09-30-2027 | | |
| Year Registered | 2019 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Geotechnical | | |

Surendra is a Senior Supervisor Engineer at APS Engineering and Testing, LLC with more than 21 years of experience in geotechnical engineering. His expertise includes Pile Driving Analyzer (PDA) testing, field quality control, and the geotechnical design of roadways, bridges, levees, and T-walls. He holds dual Master of Science degrees in Civil Engineering from Mississippi State University (2013) and the Norwegian University of Science and Technology (2007), along with a Bachelor of Engineering in Civil Engineering from Madan Mohan Malaviya University of Technology, India (1998). Surendra's technical background spans the design and analysis of shallow and deep foundation systems, along with extensive field leadership in auger cast piles, drilled shafts, soil and concrete testing, and PDA operations for driven pile testing. In his role at APS, he oversees data collection, real-time analysis, and coordination with project engineers to establish pile driving criteria. His combination of technical expertise and field leadership ensures all geotechnical services and construction activities are performed in full compliance with DOTD specifications, supporting the successful delivery of District 04 task orders.

| 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). |
|---|---|
| 11/19 - Ongoing<br>SECTION 17 PROJECT | **US 90 Railroad Overpass SE of LA 85 (H.010155)**<br>A P S served on the winning team providing geotechnical investigation, foundation design support, and construction-phase services for the proposed US 90 railroad overpass southeast of LA 85. Services included a subsurface exploration program of twelve deep borings to evaluate soil stratigraphy, groundwater conditions, and engineering properties influencing deep foundations, embankments, and retaining structures. Laboratory testing supported development of design parameters and constructability recommendations. During construction, A P S provided geotechnical engineering support including PDA monitoring, CAPWAP analyses to verify pile capacity, and settlement monitoring of approach embankments. These services supported construction sequencing, verified design assumptions, and ensured the performance of foundation and earthwork system. Surendra serves as the Senior Supervisor Engineer on the project design team, providing foundation design expertise. |
| 09/19 - Ongoing<br>SECTION 17 PROJECT | **I-10 LA415 to Essen Lane on I-10 and I-12 (H.0041005.5 & .6)**<br>The Geotechnical Investigation comprised the advancement of 77 deep borings along the project alignment, spanning from the Washington Street Exit to the LSU Lakes. APS performed 16 over-water borings utilizing barge-mounted drilling platforms and 61 land-based borings using truck-mounted rigs. Subsurface characterization included Standard Penetration Testing (SPT), Shelby tube sampling, and split-spoon recovery to obtain representative soil profiles. Laboratory testing included approximately 1,000 tests, including Unconsolidated Undrained (UU) Triaxial Compression tests for shear strength evaluation and Atterberg Limits for plasticity classification, in accordance with ASTM standards. Pile foundation performance was assessed through dynamic testing services, including Pile Driving Analyzer (PDA) instrumentation and signal matching via CAPWAP analysis. These tests provided real-time data on pile capacity, drivability, and soil-pile interaction, supporting axial load design and installation recommendations. Surendra serves as the Senior Supervisor Engineer on the Project Design Team, providing foundation design expertise, and acted as Team Leader for Pile Dynamic Analyzer (PDA) testing and analysis. |

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|---|---|
| 01/22–05/24<br>SECTION 17 PROJECT | **Project No. H.001352.6 and H.002273.5: Comite River Diversion Bridge at LA 67, LA 19, and LA 19 RR Bridge**<br>APS was selected as part of the winning team for the Design of the Diversion CMAR project. APS performed the Geotechnical Investigation and Design for the project. The scope also included testing of subsurface soils, base materials, and concrete placement areas to evaluate compliance with design standards for the proposed roadway and bridge structures. APS performed four Pile Driving Analyzer (PDA) tests during construction monitoring to assess pile performance and verify installation criteria. Surendra served as the Senior Supervisor Engineer on the Project Design Team, providing foundation design expertise, and acted as Team Leader for Pile Dynamic Analyzer (PDA) testing and analysis. |
| 06/20–04/23 | **Rural Bridge Replacement Initiative Phase I**<br>The scope included geotechnical investigation and design for the replacement of 60 bridge structures along the LA state highway system. Geotechnical Investigation consisted of drilling, laboratory testing, soil classification, and site characterization. Engineering analysis included slope stability analysis (when applicable) and pile capacity analysis for foundations to support the new bridge structures. Surendra served as the Senior Supervisor Engineer on the Project Design Team, providing foundation design expertise. |
| 03/19 - 05/25 | **US 190: LA 437 to US 190 BUS (H.001344)**<br>APS was selected as part of the winning team for the Geotechnical Investigation and Design of the proposed new bridge. The scope of work included the drilling and testing of 19 deep borings to support bridge foundation design recommendations. In addition to deep foundation investigations, APS performed site-specific testing of subsurface soils, base materials, and concrete placement zones to evaluate compliance with structural and geotechnical performance criteria. Laboratory testing supported classification, strength, and constructability assessments for proposed bridge elements. APS also provided PDA instrumentation, testing, and CAPWAP analysis. Surendra served as the Senior Supervisor Engineer on the Project Design Team, providing foundation design expertise, and acted as Team Leader for Pile Dynamic Analyzer (PDA) testing and analysis. |
| 09/21–05/24 | **Port Hudson-Pride Road (LA-964 – LA-19)**<br>The scope included Geotechnical Investigation to enable an evaluation of an acceptable foundation for the proposed pavement rehabilitation and new bridge. A total of 26 borings were drilled and tested for Geotechnical recommendations for the City of Baton Rouge. Surendra served as the Senior Supervisor Engineer on the Project Design Team, providing foundation design expertise, and acted as Team Leader for Pile Dynamic Analyzer (PDA) testing and analysis. |
| 03/15–04/15 | **Holly Drive Bridge Replacement- St. Tammany Parish**<br>The scope included Geotechnical Investigation for the replacement of a bridge structure in Covington, Louisiana. APS performed piles vertical resistance analyses for square PPC piles with sizes ranging 16-inch, 18-inch and 24-inches, roadway design, and culvert design. Surendra served as the Senior Supervisor Engineer on the Project Design Team, providing foundation design expertise, and acted as Team Leader for Pile Dynamic Analyzer (PDA) testing and analysis. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** APS Engineering and Testing

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|---|---|---|---|
| Name | **Dhanunjay "Djay" Chetput, E.I.** | Years of Relevant Experience with this Employer | 2 |
| Title | Senior Geotechnical Engineer | Years of Relevant Experience with Other(s) Employers | 17 |
| Degree(s) / Years / Specialization | MS / 2001 / Engineering | | |
| Active Registration Number / State / Expiration Date | E.I. 30676 / Texas / 12-27-2030 | | |
| Year Registered | 2001 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Staff Geotechnical / Design | | |

Dhanunjay serves as a Staff Geotechnical Engineer at A P S Engineering and Testing, LLC, bringing 19 years of experience in geotechnical engineering and a diverse background that spans both U.S. and international projects. Mr. Dhanunjay Chetput holds a Master of Science in Engineering from Lamar University (2001) and a Bachelor's in Civil Engineering from Sri Venkateswara University, India (1999). Mr. Chetput is also a Certified Project Management Professional (PMP), Certified Scrum Master (CSM), Certified Associate Safety Professional (BCSP). His technical expertise includes the design of pavements, deep foundations, and levee systems, as well as pile testing and geotechnical quality control inspections. Mr. Dhanunjay Chetput is proficient in Pile Driving Analyzer (PDA) operations for driven pile analysis, soil testing, and construction Quality Control. At A P S, Mr. Chetput combines his broad technical knowledge, project management skills, and safety leadership to ensure efficient, compliant, and high-quality project 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). |
|---|---|
| 09/19 – Ongoing<br>SECTION 17 PROJECT | **I-10 LA415 to Essen Lane on I-10 and I-12 (H.0041005.5 & .6)**<br>The Geotechnical Investigation comprised the advancement of 77 deep borings along the project alignment, spanning from the Washington Street Exit to the LSU Lakes. APS performed 16 over-water borings utilizing barge-mounted drilling platforms and 61 land-based borings using truck-mounted rigs. Subsurface characterization included Standard Penetration Testing (SPT), Shelby tube sampling, and split-spoon recovery to obtain representative soil profiles. Laboratory testing included approximately 1,000 tests, including Unconsolidated Undrained (UU) Triaxial Compression tests for shear strength evaluation and Atterberg Limits for plasticity classification, in accordance with ASTM standards. Pile foundation performance was assessed through dynamic testing services, including Pile Driving Analyzer (PDA) instrumentation and signal matching via CAPWAP analysis. These tests provided real-time data on pile capacity, drivability, and soil-pile interaction, supporting axial load design and installation recommendations. Dhanunjay serves as the Staff Geotechnical Engineer on the Project Design Team, contributing to geotechnical analysis, design, and project deliverables, specializing in Pile Dynamic Analyzer (PDA) field data acquisition, monitoring, and quality control to support foundation performance evaluations. |
| 11/19 - Ongoing<br>SECTION 17 PROJECT | **US 90 Railroad Overpass SE of LA 85 (H.010155)**<br>A P S served on the winning team providing geotechnical investigation, foundation design support, and construction-phase services for the proposed US 90 railroad overpass southeast of LA 85. Services included a subsurface exploration program of twelve deep borings to evaluate soil stratigraphy, groundwater conditions, and engineering properties influencing deep foundations, embankments, and retaining structures. Laboratory testing supported development of design parameters and constructability recommendations.<br>During construction, A P S provided geotechnical engineering support including PDA monitoring, CAPWAP analyses to verify pile capacity, and settlement monitoring of approach embankments. These services supported construction sequencing, verified design assumptions, and ensured the performance of foundation and earthwork system. Dhanunjay served as the Staff Geotechnical Engineer on the Project Design Team, contributing to geotechnical analysis, design, and project deliverables. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** NTBA

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| Name | **Patrick Staiano, PLS** | Years of Relevant Experience with this Employer | 6 |
| Title | Staff Surveyor | Years of Relevant Experience with Other(s) Employers | 10 |
| Degree(s) / Years / Specialization | | BS / 2008 / Construction Management | |
| Active Registration Number / State / Expiration Date | | PLS# 5130 / LA / 09-30-2027 | |
| Year Registered | 2015 | Discipline | Surveying Services |
| Contract Role(s) / Brief Description of Responsibilities | | Discipline Lead - Topographic Survey / ROW Services | |

Mr. Patrick Staiano, PLS will serve as NTBA Quality Control Surveyor for topographic surveying services during this contract. Patrick will assist with quality control management of field and office operations. He has over 16 years of surveying experience.

| 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 – 05/26 SECTION 17 PROJECT | **LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) Assistant Survey Project Manager** assisting in the management of field crews, file processing, drafting, and submittals for Static GPS control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, surveys in support of QL B, C, and D subsurface utility designating, title take-offs, legal description preparation, and preliminary and final right-of-way mapping for the design-build project to replace the Jimmy Davis Bridge across the Red River as a sub-consultant to James Construction. |
| 09/22 – 05/26 SECTION 17 PROJECT | **LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) Assistant Survey Project Manager** assisting in the management of field crews, file processing, drafting, and submittals for Static GPS control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, title take-offs, legal description preparations, and preliminary and final right-of-way mapping for 34 bridge and culvert replacements including surveying all sub-surface drainage structures as a sub-consultant to BKI. |
| 11/25 – 05/26 | **City of Baton Rouge / East Baton Rouge Parish, Upper Ward Creek Clearing & Snagging Project, East Baton Rouge Parish, LA (25-DR-US-0013) Survey Project Manager** directing field crews, file processing, drafting, and submittals for topographic and property surveys, right-of-way mapping, and surveys in support of QL C, B, and D surface utility designating for flood reduction and associated channel-improvement work. |
| 09/24 – 05/26 | **LADOTD IDIQ Contract for Professional Boundary Surveying Services, LA (4400027918) Survey Project Manager** directing field crews, file processing, drafting, and submittals for topographic surveys and property surveys in support of title take-offs, description preparations, preliminary and final right-of-way mapping in support of roadway design improvements. |
| 09/22 – 05/26 | **LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) Assistant Survey Project Manager** assisting in the management of field crews, file processing, drafting, and submittals for Static GPS control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, title take-offs, legal description preparations, and preliminary and final right-of-way mapping for 21 bridge and culvert replacements including surveying all sub-surface drainage structures as a sub-consultant to Waggoner. |
| 09/24 – 10/24 | **LADOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (44-17713 – Various Contract Nos & Multiple TOs) Quality Control Surveyor** assisted in field and office quality control management for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** NTBA

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| Name | **William Offer, PLS** | Years of Relevant Experience with this Employer | 9.5 |
| Title | President | Years of Relevant Experience with Other(s) Employers | 6 |
| Degree(s) / Years / Specialization | | A.S. / Science in Surveying / Great Basin College of Nevada – Currently Enrolled | |
| Active Registration Number / State / Expiration Date | | PLS# 5365 / LA / 03-31-2027 | |
| Year Registered | 2024 | Discipline | PLS |
| Contract Role(s) / Brief Description of Responsibilities | | TBA Quality Control Surveyor | |

Mr. William Offer, PLS will serve NTBA Quality Control Surveyor during this contract. He will assist in quality control management of field operations and crew logistics for topographic surveying services.

| 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 – 05/26 SECTION 17 PROJECT | **LaDOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) QC Surveyor** assisted in staffing, coordination, and QA/QC for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, and property surveys in support of title take-offs, title research, and preliminary and final right-of-way mapping for the design-build project to replace the Jimmy Davis Bridge across the Red River. |
| 08/21 – 05/26 SECTION 17 PROJECT | **LaDOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) Field Coordinator/ QC Surveyor** overseeing field crews and data transfers for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, and property surveys in support of title take-offs, legal description preparation, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 34 bridge and culvert replacements as a sub to BKI. |
| 11/25 – 05/26 | **LaDOTD Kings Hwy: Healthcare & Development Corridor, Caddo Parish, LA (H.015724) QC Surveyor** assisted in staffing, coordination, and QA/QC for Static GPS Control surveys and topographic surveys in support of QL B, C, & D utility designating and utility coordination services in support of rehabilitation and design for roadway reconstruction. |
| 04/22 – 04/23 | **LaDOTD I-20 Monkhouse to I-49, Caddo Parish, LA (4400017713) Field Coordinator** overseeing field crews and data transfers for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection and surveys in support of QL C & D subsurface utility services and drainage map preparation for interstate rehabilitation. |
| 01/23 – 05/26 | **Delta Utilities/ CenterPoint Energy, Surveying & SUE Services, LA (Various Agency Proj. Nos.) Field Coordinator/ QC Surveyor** overseeing field crews and data transfers for topographic surveys, boundary surveys, right-of-way mapping, QL B subsurface utility designating services, and surveys in support of SUE for maintenance and construction projects stretching from Lake Charles to Lafayette to Shreveport, and along the Northshore of Lake Pontchartrain. |
| 12/17 – 11/24 | **LaDOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (44-12323, 44-17713, 44-14660 - Multiple TOs) Survey Party Chief/ Field Coordinator/ QC Surveyor** ran a field crew, overseen field crews, and performed data management for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway. |
| 08/25 – 05/26 | **LaDOTD I-20: Sam R. Fert Dr. to Red River Bridge, Caddo Parish, LA (H.016413.5) QC Surveyor** assisting in staffing, coordination, and QA/QC for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, and surveys in support of SUE for interstate rehabilitation along I-20, between a point southeasterly of the I-20 & I-49 interchange and the Caddo/Bossier Parish Line. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** NTBA

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| Name | **Bryan Bunch, PLS** | Years of Relevant Experience with this Employer | 16.5 |
| Title | Executive Vice President | Years of Relevant Experience with Other(s) Employers | 15 |
| Degree(s) / Years / Specialization | | BS / 1988 / Survey and Land Information Systems | |
| Active Registration Number / State / Expiration Date | | PLS# 5014 / LA / 03-31-2028 | |
| Year Registered | 2009 | Discipline | Professional Surveyor |
| Contract Role(s) / Brief Description of Responsibilities | | Topographic Survey / ROW Services | |

Mr. Bryan Bunch, PLS will serve as NTBA Assistant Survey Project Manager assisting in staff management, processing, and preparation of deliverables for topographic surveying services. He satisfies MPR No. 4 for topographic surveys.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 01/23 – 05/26 SECTION 17 PROJECT | **LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) Survey Project Manager** directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, QL A, B, C, & D utility designating/locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River. |
| 09/20 – 05/26 SECTION 17 PROJECT | **LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) Survey Project Manager** directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub to Waggoner. |
| 11/25 – 05/26 | **LADOTD Kings Hwy: Healthcare & Development Corridor, Caddo Parish, LA (H.015724) Assistant Survey Project Manager** assisted in staffing, coordination, and QA/QC for Static GPS Control surveys and topographic surveys in support of QL B, C, & D utility designating and utility coordination services in support of rehabilitation and design for roadway reconstruction. |
| 04/22 – 04/23 | **LADOTD I-20 Monkhouse to I-49, Caddo Parish, LA (4400017713) Survey Project Manager** directed field crews, file processing, drafting, and submittals for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation. |
| 05/15 – 12/20 | **City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15) Quality Control Surveyor** supervised south LA field crews and technicians for Static GPS Control surveys, topographic, property, and hydrographic surveying services, and QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge. |
| 09/24 – 05/26 | **LADOTD IDIQ Contract for Professional Boundary Surveying Services, LA (4400027918) Assistant Survey Project Manager** assisting in staffing, coordination, and QA/QC for topographic surveys and property surveys in support of title take-offs, description preparations, preliminary and final right-of-way mapping in support of roadway design improvements. |
| 08/25 – 05/26 | **LADOTD I-20: Sam R. Fert Dr. to Red River Bridge, Caddo Parish, LA (H.016413.5) Assistant Survey Project Manager** assisting in staffing, coordination, and QA/QC for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, and surveys in support of SUE for interstate rehabilitation along I-20, between a point southeasterly of the I-20 & I-49 interchange and the Caddo/Bossier Parish Line. |

## Bryan Bunch resume continued

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| 12/20 – 03/22 | **LADOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713) Assistant Project Manager** assisted in the management of field crews and technicians for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection and surveys in support of QL C & D subsurface utility designating for bridge repair/ rehabilitation. |
| 12/20 – 03/21 | **LADOTD LA 6: Youngs Bayou Bridge Rehab, Natchitoches Parish, LA (4400017713 & H.013821.5) Assistant Project Manager** assisted in staffing, coordination, and QA/QC for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection for bridge rehabilitation. |
| 08/22 – 05/26 | **Delta Utilities/ CenterPoint Energy, Surveying & SUE Services, Various Parishes, LA (Various Agency Proj. Nos.) Quality Control Surveyor assisting in staffing, coordination, and QA/QC for topographic surveys, property surveys, surveys in support of SUE, title takeo**ffs, boundary and right-of-way calculations, CADD drawings, and plats for maintenance and construction projects. To date, NTBA has worked on over 100 separate projects stretching from Lake Charles to Lafayette to Shreveport, and along the Northshore of Lake Pontchartrain. |
| 07/23 – 05/26 | **LADOTD IIJA Off-System Bridge Program, District 62 (4400025041) Quality Control Surveyor** assisted in staffing, coordination, and QA/QC for Static GPS control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, and preliminary and final right-of-way mapping in support of bridge replacements. |
| 12/24 – 05/25 | **LADOTD Contract for Topographic Surveys, Box Culvert Replacements, Tasks Orders 1-4, Evangeline, St. Landry, & Bienville Parishes (4400021975) Assistant Project Manager** assisted in staffing, coordination, and QA/QC for Static GPS Control surveys, topographic surveys, and surveys in support of QL D subsurface utility record research for preliminary designs of box culvert initiatives. |
| 12/17 – 11/24 | **LADOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (44-12323, 44-17713, 44-14660 - Multiple TOs) Survey Project Manager** directed field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway**.** |
| 05/16 – 06/18 | **LADOTD LA 675 & LA 87 Improvements in New Iberia, Iberia Parish, LA (4400002562 & 4400006814) Project Manager** directed field crews, file processing, drafting, and submittals for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection as a sub to Stanley Consultants, Inc. |
| 07/16 – 03/17 | **LADOTD Bayou Fountain, Route LA 327 Spur (Gardere Lane) East Baton Rouge Parish, LA (4400006527 & H.002337.5) Survey Project Manager** directed field crews, file processing, drafting, and submittals for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, surveys in support of QL B, C, and D subsurface utility designating, and drainage map preparation for roadway rehabilitation. |
| 10/15 – 07/16 | **LADOTD MacArthur Interchange Completion (Phase II) Route US 90-Z, Jefferson Parish, LA (4400005142 & H.011309.5) Project Manager** directed field crews, file processing, drafting, and submittals for topographic surveying services as a sub to SDR Engineering. |
| 04/15 – 02/16 | **LADOTD I-20 (Airline Drive to I-220) Route I-20, Bossier Parish, LA (4400005532 & H.011319.5) Assistant Project Manager** supervised south LA crew members and technicians for topographic surveying services. |
| 04/15 – 09/15 | **LADOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5) Quality Control Surveyor** assisted in staffing, coordination, and QA/QC for topographic surveys, drainage map preparation, and surveys in support of QL B subsurface utility designating for bridge rehabilitation. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** NTBA

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|---|---|---|---|
| Name | **Michael King, PLS** | Years of Relevant Experience with this Employer | 19 |
| Title | Vice President | Years of Relevant Experience with Other(s) Employers | 2 |
| Degree(s) / Years / Specialization | BS / 2012 / Construction Management | | |
| Active Registration Number / State / Expiration Date | PLS# 5127 / LA / 09-30-2027 | | |
| Year Registered | 2015 | Discipline | Professional Surveying |
| Contract Role(s) / Brief Description of Responsibilities | Topographic Survey/ROW Services | | |

Mr. Michael King, PLS will serve as NTBA Survey Project Manager for topographic surveying services during this contract. Mike will manage field crews, file processing, drafting, and submittals. Mike has over 20 years of surveying experience. He satisfies MPR No. 4 for topographic surveys.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
|---|---|
| 01/23 – 05/26 SECTION 17 PROJECT | **LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier & Caddo Parishes, LA (H.001779) Assistant Project Manager** assisting in the management of field crews and technicians for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, QL A, B, C, & D utility designating/locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River. |
| 08/21 – 05/26 SECTION 17 PROJECT | **LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (4400019337) Assistant Project Manager** assisting in the management of field crews and technicians for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 34 bridge and culvert replacements as a sub to BKI. |
| 11/25 – 05/26 | **LADOTD Kings Hwy: Healthcare & Development Corridor, Caddo Parish, LA (H.015724) Survey Project Manager** directing field crews, file processing, drafting, and submittals for Static GPS Control surveys and topographic surveys in support of QL B, C, & D utility designating, and utility coordination services in support of rehabilitation and design for roadway reconstruction. |
| 04/22 – 04/23 | **LADOTD I-20 Monkhouse to I-49, Caddo Parish, LA (4400017713) Assistant Project Manager** assisted in the management of field crews and technicians for Static GPS Control, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation. |
| 05/15 – 12/20 | **City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City No. 8-15) Quality Control Surveyor** reviewed data and drafting for Static GPS Control surveys, topographic, property, and hydrographic surveying services, and QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge. |
| 09/24 – 05/26 | **LADOTD IDIQ Contract for Professional Boundary Surveying Services, LA (4400027918) Quality Control Surveyor** assisting in staffing, coordination, and team meetings for topographic surveys and property surveys in support of title take-offs, description preparations, preliminary and final right-of-way mapping in support of roadway design improvements. |
| 04/21 – 05/26 | **LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (4400019338) Assistant Project Manager** assisting in the management of field crews and technicians for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, property surveys, title take-offs, description preparations, preliminary and final right-of-way mapping, and QL C & D subsurface utility services for 21 bridge and culvert replacements as a sub to Waggoner. |

## Michael King resume continued

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| 08/22 – 05/26 | **Delta Utilities/ CenterPoint Energy, Surveying & SUE Services, Various Parishes, LA (Various Agency Proj. Nos.) Quality Control Surveyor** assisting in staffing, coordination, and QA/QC for topographic surveys, property surveys, surveys in support of SUE, title takeoffs, boundary and right-of-way calculations, CADD drawings, and plats for maintenance and construction projects. To date, NTBA has worked on over 100 separate projects stretching from Lake Charles to Lafayette to Shreveport, and along the Northshore of Lake Pontchartrain. |
| 08/25 – 04/26 | **LADOTD I-20: Sam R. Fert Dr. to Red River Bridge, Caddo Parish, LA (H.016413.5) Survey Project Manager** for Static GPS Control surveys, topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, and surveys in support of SUE for interstate rehabilitation along I-20, between a point southeasterly of the I-20 & I-49 interchange and the Caddo/Bossier Parish Line. |
| 12/24 – 05/25 | **LADOTD Contract for Topographic Surveys, Box Culvert Replacements, Tasks Orders 1-4, Evangeline, St. Landry, & Bienville Parishes (4400021975) Project Manager** directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, topographic surveys in support of QL D subsurface utility record research for preliminary designs of box culvert initiative projects. |
| 12/17 – 11/24 | **LADOTD I-10: LA 415 to Essen Lane on I-10 and I-12, West & East Baton Rouge Parishes, LA (44-12323, 44-17713, 44-14660 - Multiple TOs) Assistant Project Manager** assisted in the management of field crews and technicians for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL B, C, and D subsurface utility designating, and surveys in support of QL B, C, and D subsurface utility designating for approximately 13 miles of roadway. |
| 12/20 – 03/22 | **LADOTD LA 47 IWGO Bridge Rehabilitation, Historic Bridge Improvement (HBI), Orleans Parish, LA (4400017713) Assistant Project Manager** assisted in the management of field crews and technicians for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection and surveys in support of QL C & D subsurface utility designating for bridge repair/ rehabilitation. |
| 07/16 – 03/17 | **LADOTD Bayou Fountain, Route LA 327 Spur (Gardere Lane) East Baton Rouge Parish, LA (4400006527 & H.002337.5) Assistant Project Manager** assisted in the management of survey crews and technicians for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, surveys in support of QL B, C, and D subsurface utility designating, and drainage map preparation for roadway rehabilitation. |
| 04/15 – 09/15 | **LADOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 & H.011094.5) Quality Control Surveyor** reviewed data and drafting for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, drainage map preparation, and surveys in support of QL B subsurface utility designating for bridge rehabilitation. |
| 02/14 – 03/15 | **LADOTD Earhart Expressway Extension to US 61, Route LA 3139, Jefferson Parish, LA (H.004367.5) Sr. Survey Party Chief/ Technician** ran a field crew and processed data for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection for an overpass connection, relocation of existing lanes, and construction of additional lanes as a sub to AECOM. |
| 07/12 – 01/14 | **LADOTD I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5) Sr. Survey Party Chief/Technician** managed a survey crew and processed data for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection for interstate rehabilitation as a sub to GEC, Inc. |
| 07/12 – 06/13 | **LADOTD I-10 Williams Blvd. to Veterans Blvd., Jefferson Parish, LA (H.003074.5 & H.009087.5) Sr. Survey Party Chief/Technician** ran a field crew and processed data for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL B, C, and D subsurface utility designating, and surveys in support of QL A, B, C, and D subsurface utility designating/ locating for interstate rehabilitation as a sub to GEC, Inc. |
| 07/10 – 10/12 | **LADOTD LA 42 Widening and Improvements, District 61, Ascension Parish, LA (700-03-0125 & 701-65-1538) Survey Party Chief/ Technician** ran a field crew and processed data for topographic and property surveys in support of base and final right-of-way mapping, and title work. |
| 02/11 – 08/11 | **LADOTD I-20 Rehabilitation Westerfield Avenue to Industrial Drive, District 04, Bossier Parish, LA (H.003860.5 & 700-99-0525) Survey Party Chief/Technician** managed a survey crew and processed data for topographic surveys utilizing HDS 3D Terrestrial Laser Scanning methods of data collection for interstate rehabilitation. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** VECTURA CONSULTING SERVICES, LLC

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| Name | **Sheelagh Brin Ferlito, PE, PTOE** | Years of Relevant Experience with this Employer | 10 |
| Title | Supervisor - Eng | Years of Relevant Experience with Other(s) Employers | 27 |
| Degree(s) / Years / Specialization | | BS / 1988 / Civil Engineer | |
| Active Registration Number / State / Expiration Date | | PE# 25383 / LA / 09-30-25 | |
| Year Registered | 1993 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | | **Discipline Lead / Traffic** | |

Brin has extensive experience in traffic engineering and operations. As Traffic Discipline Lead for this IDIQ Design Services contract, she will oversee all traffic engineering components of task orders, including traffic analyses, operational evaluations, and safety reviews. Brin will direct the development of traffic control plans, ensuring compliance with LADOTD's Traffic Engineering Manual, Traffic Signal Manual, and Work Zone Safety training requirements. She will coordinate with the roadway and bridge design teams to integrate traffic management solutions that prioritize safety, efficiency, and constructability. In addition, she will provide leadership, QA/QC oversight, and technical guidance to the traffic team, supporting timely, high-quality, and compliant deliverables for District 04 projects.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 07/21 - Ongoing | **EBR Computerized Traffic Signal, Phase VB, Baton Rouge, LA (H.007160)**<br>**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 DOTD, 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**<br>**Lead Traffic Engineer.** 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)**<br>**Project Manager.** Brin is the project manager for the temporary and permanent traffic signal plans for the intersections of LA 23 at Burmaster Street and at Engineers Road. 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. |
| 09/20 - 12/21 | **LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA (H.010960.5)**<br>**Project Manager.** Brin is the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multi-lane roundabouts along LA 30 at I-10 Interchange ramps and at Tanger Boulevard. Vectura also developed signal timing plans for each phase of the construction to maintain progression along LA 30. |
| 07/18 - 04/19 | **LA 1 Pedestrian Crosswalk Study and Traffic/Pedestrian Signal Design, West Baton Rouge Parish, Addis, LA**<br>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 ROW. |

## Sheelagh Brin Ferlito resume continued

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| 09/17 - 04/18 | **US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic/Pedestrian Signal Equipment Design, Slidell, LA**<br>Brin developed a formal traffic study for a proposed crosswalk with pedestrian traffic signal equipment and pedestrian clearance timings based on LADOTD requirements. Brin assisted with vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data, and developed signal timing for pedestrians to cross the street. From the design study, a set of Traffic Signal Modification Plans were developed to implement the recommended alternative. |
| 08/15 - 05/17 | **Enhancing Guidance for Evacuation Time Estimate Studies (Nuclear Regulatory Commission, Rockville, MD**<br>Brin conducted an applied research study of US Nuclear Regulatory Commission guidance for developing evacuation time estimate studies and produced a technical basis for revision of NUREG/CR-7002 "Criteria for Development of Evacuation Time Estimate Studies" in support of the 2020 update of ETEs. Specifically, Brin was the lead VISSIM modeler for the "large" population models, which consisted of a 20-mile radius model. The VISSIM model input included traffic volumes distributed over eight hours, highway and intersection lane geometry using links and connectors, conflict areas, traffic signal, and stop control and speed. Brin also developed Dynamic Traffic Assignment code to simulate that fastest route out of the evacuated zone. |
| 04/14 – 12/14 | **Signal Design for N. Sherwood Forest Drive Widening Project, Baton Rouge, LA (H.002301)**<br>**Project Manager.** As the 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 DOTD requirements. BRin developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction. |
| 07/12 - 03/14 | **EBR 03-TS-CI-0026 CE&I/OV for EBR Traffic Signal Systems Jefferson Highway Construction, Baton Rouge, LA**<br>**Project Resident Engineer.** Brin was the Project Resident Engineer on behalf of EBR for performing CE&I/OV 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, and developed change orders and monthly contractor pay estimates. She also coordinated with LADOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM/EOC building. She processed all monthly tasks in EBR formats as well as well as all items on the EBR project closeout checklist. |
| 07/08 - 09/09 | **SPN 013-05-0043 CE&I/OV for EBR Traffic Signal Systems Phase IV Construction, Baton Rouge, LA**<br>**Project Resident Engineer.** Brin was the Project Resident Engineer for LADOTD and East Baton Rouge (EBR) to perform CE&I/OV services for the construction of 21 traffic signals. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for LADOTD Materials Lab, and developed change orders and monthly contractor pay estimates. She also coordinated with LADOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM/EOC building. She processed all monthly tasks electronically in LADOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report. |
| 09/13 – 04/14 | **S.P. 700-99-0477 Jefferson Highway Signal Design, Baton Rouge, LA**<br>Brin designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. Design also included traffic signal synchronization signal timing and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans, and specifications. |
| 03/05 – 11/05 | **Airline Highway Widening SPN 700-99-0332 (Baton Rouge, LA)**<br>Brin designed eight traffic signals as part of the Airline Highway widening project in Baton Rouge. Her design included traffic data collection, traffic signal equipment, signal synchronization timing, fiber communication, storage length calculations based on queues analyses, special provision specifications, quantities, and cost estimate. This project included fiber design to be the first Baton Rouge project to connect video surveillance images and traffic controller information to the ATM/EOC. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** VECTURA CONSULTING SERVICES, LLC

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| Name | **Laurence Lucius Lambert II, PE, PTOE, PTP** | Years of Relevant Experience with this Employer | 10 |
| Title | Supervisor - Eng | Years of Relevant Experience with Other(s) Employers | 18 |
| Degree(s) / Years / Specialization | BS / 1997 / Civil Engineer \| MS / 2006 / Civil Engineer (Transportation) \| MBA / 2010 | | |
| Active Registration Number / State / Expiration Date | PE# 29901 / LA / 3-31-2028 | | |
| Year Registered | 2002 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Traffic | | |

Laurence will conduct traffic studies, intersection performance analyses, and signal timing evaluations, supporting the development of efficient and safe traffic operations. Laurence will assist in preparing traffic control plans, and provide input on signage, pavement markings, and traffic management strategies to ensure compliance with LADOTD's Traffic Engineering Manual, Traffic Signal Manual, and Work Zone Safety requirements. Working in close collaboration with the Traffic Discipline Lead, he will help deliver data-driven, accurate, and compliant traffic engineering solutions that align with District 04 project goals.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 05/23 – 05/24 SECTION 17 PROJECT | **US 190B/Fremaux Ave Sidewalk Feasibility Study, Slidell, LA**<br>**Principal-in-Charge.** Laurence was the principal in charge for a sidewalk feasibility study that included data collection, safety analysis, alternative analysis, and a final report. |
| 12/23 – 08/24 | **South Range Road Operations Study Stage 0 Feasibility Study, Tangipahoa Parish, LA (H.972501.1)**<br>**Principal-in-Charge.** Laurence was the Principal-in-Charge for a Stage 0 for the Regional Planning Commission (RPC) to evaluate operating conditions of the S. Range Road corridor that included the intersection with Old Covington Highway. The corridor study included traffic data collection, pedestrian/bicycle counts, safety analysis, existing conditions analysis and alternative analysis. The results were summarized in a Stage 0 report. |
| 07/23 – 11/23 | **CCC Decorative Lighting Level 4 TMP, New Orleans, LA (H.015504.5)**<br>**Project Manager.** Laurence was the project manager for a Level 4 Traffic Management Plan (TMP) for the Crescent City Connection (CCC). Laurence oversaw the lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots". The results were summarized in a report that was reviewed by LADOTD. |
| 04/23 – 10/23 | **I-12: US 61 Bridges Girder Repairs, Baton Rouge, LA (H.014591.5)**<br>**Project Manager.** Laurence was the project manager for a Level 2 TMP for the interchange of I-12 at US 61. Laurence performed QA/QC for a lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots" where Laurence also performed QA/PC. The results were summarized in a report that was reviewed by DOTD. |
| 04/18 – 12/21 | **LA 30 Roundabouts at Tanger & I-10 Gonzales, Ascension, LA (H.010960.5)**<br>**QA/QC.** Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts. |
| 01/23 – 02/24 | **Alexandria ITS Phase 2 (H.011504)**<br>**Project Manager.** Laurence was the project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and Level 2 Transportation Management Plan for the Alexandria area. |
| 10/21 – 03/22 | **I-10 ITS Scott to Lake Charles (H.013256.5)**<br>**Lead Traffic Engineer.** Laurence was the lead traffic engineer for a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis, and public information strategies. |

## Laurence Lambert resume continued

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| 09/20 - 04/21 | **MOVEBR LA 67 (Plank Road) Enhancement Project, Baton Rouge, LA**<br>**Project Manager.** Laurence was the project manager to enhance transit, bicycle, and pedestrian mobility on Plank Road that required both City-Parish and DOTD approval. Laurence evaluated the proposed pedestrian crossings on LA 67 using the LADOTD Traffic Engineering Manual pedestrian warrants found in Section 3B.2. Laurence also developed traffic operations evaluation of the traffic study which included traffic signal timing evaluations. |
| 02/20 – 09/21 | **College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, LA**<br>**Project Manager.** Laurence was the project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive. Since the I-10 interchange was included in the study, approval from LADOTD was required. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle/pedestrian/transit observations. |
| 10/17-10/18 | **H.013025 LA 182 (University Avenue) Corridor Planning Study (Lafayette, LA)**<br>**Lead Transportation Engineer.** Laurence was the lead transportation engineer for a Corridor Planning Study for LA 182. The scope focused on improving safety and mobility for pedestrian, bicycle, and transit users. Laurence collected AM & PM peak vehicle turning movement counts as well as pedestrian and bicycle counts. Laurence coordinated with the Acadiana Planning Commission to develop growth rates and design year volumes. Laurence then performed Highway Capacity Manual analysis for five intersections along the intersection analyses for the signalized and roundabout controlled alternatives. Included in the study was a safety analyses of five intersections and the intermediate segments. Based on the results of the safety analysis, Laurence provided design criteria to the design team for improving safety of pedestrians, bicycles, and vehicles. |
| 02/17-10/17 | **Judge Tanner Boulevard at N. Causeway Roundabout Study, St. Tammany Parish, LA**<br>Laurence performed a Stage 0 Feasibility Study for Roundabouts at four intersections in Mandeville area. The scope was developed based on EDSMs VI.1.1.1/VI.1.1.5 and DOTD Traffic Engineering Manual (TEM) Section 20.2. Laurence, along with Brin, collected 7-day, 24-hour counts with Classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Once the traffic data was collected, Laurence performed traffic signal warrants analyses, performed a Sidra unsignalized, signalized, and roundabout analyses for years 2020 and 2040, AM and PM peak hours. Laurence developed a report that captured all the results. |
| 01/17-07/17 | **Minnesota Park Road Improvements Traffic Study, Tangipahoa Parish, LA (H.004957.5)**<br>**Task Leader.** Laurence was the task leader for a traffic data collection and intersection analyses of a Stage 0 Feasibility study for Minnesota Park Road in Hammond, LA. Laurence utilized Sidra software to perform a roundabout alternative. The LADOTD procedures for utilizing Sidra were followed for this project. |
| 06/12-12/12 | **Ramp Metering Study of I-10 Segment, East Baton Rouge and Ascension Parishes, Louisiana**<br>**Project Manager.** Laurence conducted a feasibility study to deploy ramp meters along the Interstate 10 (I-10) Corridor in Baton Rouge between Dalrymple Drive and LA 73. The study consisted of analyzing 17 on-ramps under differing design conditions, which include the following: 2010 Existing, 2012 Without Ramp Meter, 2012 Ramp Meter, and 2012 Ramp Meter with Recommendations. Laurence's role in this project as project manager was to oversee all QA/QC measures and interpret the results from the model. Laurence coordinated with the local agencies to obtain all current proposed projects in the area, which included LADOTD I-10 Widening Project Phases 1 and 2, the Green Light Plan (GLP) Essen Lane Widening Project, and the GLP Highland Road Widening Project. |
| 03/10 - 11/11 | **S.P. No. 700-09-0171 Stage 0 and 1 Study I-49 Inner City Connector, Shreveport, LA**<br>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). |
| 04/04 - 12/04 | **I-10 Frontage Roads, Picardy Interchange, Bluebonnet Siegen Baton Rouge, LA**<br>Laurence provided the traffic analysis for a highly unique reconfiguration of interstate ramps that included frontage roads and an overpass of I-10 for new an interchange at Picardy. HCS and VISSIM were the primary analysis tools for the analysis. As part of the design team that developed the concept for this project, Laurence performed feasibility studies, developed design criteria, and coordinated with city, state and federal agencies for approvals as well as gathered public input. Laurence prepared traffic signal timings and designs that included cost estimates for the project. |

## 16. STAFF EXPERIENCE:

**Firm Employed By:** VECTURA CONSULTING SERVICES, LLC

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| Name | **Reece Rodrigue, PE, PTOE, RSP1** | Years of Relevant Experience with this Employer | 4 |
| Title | Engineer | Years of Relevant Experience with Other(s) Employers | 7 |
| Degree(s) / Years / Specialization | BS/2013/Civil Engineer | | |
| Active Registration Number / State / Expiration Date | PE#42074/LA/3-31-2026 | | |
| Year Registered | 2017 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Traffic | | |

Reece will contribute to the design of traffic signals and control systems, ensuring all improvements meet LADOTD safety standards and traffic engineering requirements. He will also assist with plan reviews, QA/QC support, and construction-phase technical assistance, helping to deliver accurate, safe, and compliant traffic engineering solutions for District 04 projects.

| Experience Dates (mm/yy-mm/yy) | Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s). |
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| 04/21 - Ongoing | **MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA**<br>**Project Engineer.** Reece is a project engineer for the design of traffic signal upgrades at ten intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing. |
| 06/23 - Ongoing | **Connected & Autonomous Vehicles (C/AV) Team and Working Group Support (H.012845.1)**<br>Reece is a member of the team to develop new policies and legislation related to C/AV. |
| 06/23 - Ongoing | **Monroe Phase 3 SEA (H.011507.1)**<br>Reece visited the project site to document the controller type and detection needs at each signalized intersection within the ROW. |
| 07/21 - Ongoing | **EBR Computerized Traffic Signal, Phase VB, Baton Rouge, LA (H.007160)**<br>Reece is part of the team responsible for Construction Engineering and Inspection. Reece has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Reece, with the LADOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations. |
| 01/23 – 02/24 | **Alexandria ITS Phase 2 (H.011504)**<br>**Project Engineer.** Reece was the project engineer for a site visit, System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost, and Level 2 Transportation Management Plan. |
| 04/20 - Ongoing | **LADOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Belle Chasse, LA (H.004791)**<br>Reece is responsible for designing the temporary traffic signal for the intersection of LA 23 at Engineers Road 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. |

## Reece Rodrigue resume continued

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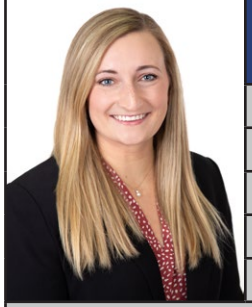
| 01/21 – 05/21 | **I-10 ITS Scott to Lake Charles, Lafayette, Acadia, and Jefferson Davis Parishes, LA (H.013256)**<br>Reece was a member of the subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being installed. Reece was responsible for measuring anticipated construction quantities and producing a cost estimate for said quantities by using LADOTD's Bid Tabulation and Cost Estimating Tool. |
| 09/20 – 12/21 | **Roundabout: US 171 at Boone St., Vernon Parish, LA (H.011909.5-4)**<br>**Design 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 Street. 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)**<br>**Design Engineer.** Reece is a design engineer, who is assisting in the production of the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. He assisted in calculating the temporary pole heights, determining the placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Reece conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns. |
| 11/21 – 12/21 | **Emergency Street Light and Traffic Sign Assessment, New Orleans, LA**<br>In response to the damage caused by Hurricane Ida, Reece inspected streetlights and street signs to report damage using the City's ArcGIS Online Organization and ArcGIS Field Maps app. The assessment area was approximately 2.5 miles by two miles area. |
| 02/20 – 09/21 | **College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, LA**<br>**Task Leader.** 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**<br>Reece was responsible for the design of a fully actuated signalized intersection in the city of Walker, LA. The traffic signal was determined to meet signal warrants upon completion of the Foxglove subdivision in Livingston Parish, LA. Plans included road widening, signal face indication schedule, signal sequence chart, sign schedule, detector schedule, controller timing, wiring diagram, and free operation phasing diagram. Reece met with city officials to discuss the feasibility of constructing a traffic signal as opposed to other alternative measures for improving the intersection. |
| 02/16 - 12/16 | **US 190 Superstreet Task Order, St. Tammany Parish, LA (H.005733.5)**<br>Reece was a team member responsible for the layouts for the US 190 Superstreet signal designs. He created the preliminary plans using CADD software program MicroStation V8i. He aided in the technical design of each intersection. He conducted field inspections to verify locations of existing equipment as well as observing the area for feasible proposed utility locations. He attended project team meetings to discuss the project details as well as the plan-in-hand walk-through. |
| 01/16 – 11/17 | **Ochsner Main Campus Traffic Signals, Jefferson Parish**<br>**Design Engineer.** Reece served as a design engineer for the traffic signal plans for the two Ochsner Main Campus access traffic signals with US 90 (Jefferson Highway). 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**<br>Reece was a team member in the production of an Interchange Modification Report (IMR) for the I-10 at Loyola Drive 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 Farrington, PE, PTOE, RSP1** | Years of Relevant Experience with this Employer | 4 |
| Title | Engineer | Years of Relevant Experience with Other(s) Employers | 7 |
| Degree(s) / Years / Specialization | BS/2013/Civil Engineer | | |
| Active Registration Number / State / Expiration Date | PE#42074/LA/3-31-2027 | | |
| Year Registered | 2018 | Discipline | Civil Engineering |
| Contract Role(s) / Brief Description of Responsibilities | Traffic | | |

Kristen will lead efforts in the layout of traffic control devices, the design of temporary traffic routes, and the preparation of traffic management strategies that comply with LADOTD's Traffic Engineering Manual, Traffic Signal Manual, and Work Zone Safety requirements. Collaborating with the broader design team, Kristen will help ensure that all traffic-related designs are accurate, compliant, and safety-focused, supporting efficient project delivery across District 04.

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

## Kristen Farrington resume continued

| | |
|---|---|
| 04/19 – 6/21 | **LA 117 Improvements Stage 0 (Vernon and Natchitoches Parishes, LA (H.013817.1)**<br>**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)**<br>**Task Leader.** 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)**<br>**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 DOTD, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as unmet demand observations and calculations. Kristen prepared TMC figures, as well as performed existing analysis in Vistro. Compiled all data collected into Appendices A and B per the 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**<br>**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 ROW 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)**<br>**Designer.** Kristen was the designer responsible for concept development, report writing, and impact analysis for a Stage 0 study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared. |
| 11/16 – 07/17 | **Cane River Bridge Church Street Route LA 1-X Environmental Assessment (H.001271)**<br>**Project Engineer.** Kristen was the project engineer responsible for assisting with the site visits, data organization, analysis of permanent alternatives and traffic control alternatives, and traffic report to aid in the delivery of an environmental assessment for the Cane River Bridge Replacement |

# Section 17

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

Waggoner Engineering, Inc.
Lead Road Design Firm

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

Showing a new roundabout under construction, with a strong focus on maintaining traffic flow during the intersection modifications. The construction phasing is a vital element in project planning and execution.

## 17. FIRM EXPERIENCE:

| | | | | |
|---|---|---|---|---|
| Firm Name | WAGGONER | | | |
| Project Name | I-220/I-20 Interchange Improvements & BAFB Access Design-Build | Past Performance Evaluation Category(ies)* | | Road, Bridge, Traffic, Other (Project Management) |
| | | Firm Responsibility | Subconsultant | |
| Project Number | H.003370 | Owner's Name | LADOTD | |
| Project Location | Bossier Parish, LA | Owners Project Manager | Corey Landry, PE | |
| Owners Address, Phone, Email | 1201 Capital Access Road, Baton Rouge, LA 70806 \| 225.379.1067 \| corey.landry@la.gov | | | |
| Services Commenced by this Firm (mm/yy) | 08/19 | Total Consultant Contract Cost ($1,000's) | | $4,411 |
| Services Completed by this Firm (mm/yy) | 10/22 | Cost of Consultant Services Provided by this Firm ($1,000's) | | 2,166 |

**Team Members Involved:**

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

**Project Description:**

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

Waggoner served as the **lead roadway designer** and was responsible for **preparing design reports, roadway geometrics, hydraulic analysis and design for open channels and subsurface drainage, permanent striping, cross sections, clearing and grubbing plans, SWPPP preparation, and quantity computations.** The drainage design included analyzing **existing cross drains** and designing **new cross drains** for Musselshell Bayou, which required a 10x10 RCB and bridge scour analysis at a second crossing. Waggoner provide independent reviews of the **transportation management plan, traffic control plans, and the Interchange Modification Report (IMR) reevaluation**.

**Project Relevance:**

- √ Project Management & Support
- √ Road Design
- √ Hydraulics Report & Calculations
- √ Comment & Response Log
- √ Preliminary & Final Road Plans
- √ Construction Support
- √ Shop Drawings

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

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

## 17. FIRM EXPERIENCE:

| | | | | |
|---|---|---|---|---|
| Firm Name | WAGGONER | | | |
| Project Name | Pecue Ln/I-10 Interchange - Phase III | Past Performance Evaluation Category(ies)* | | Bridge |
| | | Firm Responsibility | Subconsultant | |
| Project Number | H.003047 | Owner's Name | EBRDTD | |
| Project Location | East Baton Rouge Parish, LA | Owners Project Manager | Tom Stephens, PE | |
| Owners Address, Phone, Email | PO Box 1471, Baton Rouge, LA 70821 \| 225.389.3186 \| tstephens@brla.gov | | | |
| Services Commenced by this Firm (mm/yy) | 02/16 | Total Consultant Contract Cost ($1,000's) | | $750 |
| Services Completed by this Firm (mm/yy) | Ongoing | Cost of Consultant Services Provided by this Firm ($1,000's) | | $230 |

### Team Members Involved:

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

### Project Description:

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

Waggoner is contracted to Shread-Kuyrkendall & Associates, Inc. to provide design services for the project. Specifically, Waggoner's scope includes the **evaluation and design of parallel bridges along Pecue Lane over Wards Creek,** and the **evaluation and widening of the I-10 bridges over Wards Creek** to accommodate the on/off ramps. Unique geometric needs, along with considerations for a **new multi-use pathway beneath the first span** of the new bridges required special attention to detail and elevations during final plan development. **As-designed LRFR bridge ratings** were provided for all bridges involved.

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

**Bridge Design**

- LRFD Design
- Superstructure & Substructure Design
- AASHTO prestressed-precast concrete girders (widening)
- Slab spans
- Concrete bent cap supported on PPC piles
- LRFR bridge rating
- Construction phasing

**Project Relevance:**

- √ Bridge Assessment
- √ Bridge Design/ Rehabilitation
- √ Close-out Management
- √ Construction Support RFI's
- √ Shop Drawing Review

## 17. FIRM EXPERIENCE:

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

### Team Members Involved:

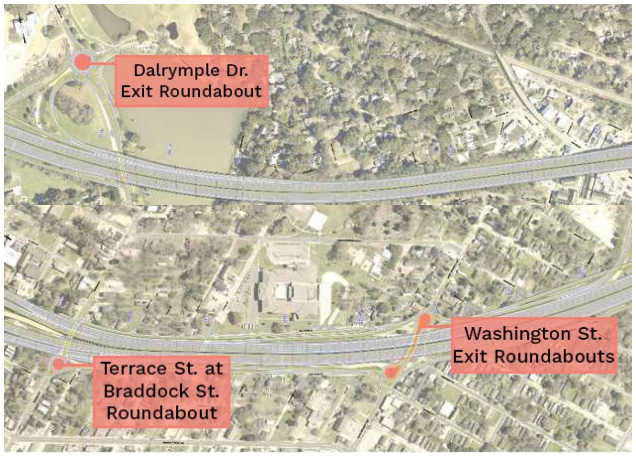
Robert Lear, Miles Williams, Bryan Harmon, Alex Farr, Joshua Renard, Kelsie Bankston, Charlotte Gremillion, Jace Ricard, Steven Gilliam

### Project Description:

Waggoner 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 DOTD **electronic delivery standards**.

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




**Project Relevance:**

- √ Project Management
- √ Road Design
- √ Drainage Evaluation
- √ Utility Coordination
- √ Preliminary & Final Road Plans
- √ ROW Map
- √ Construction Support

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

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

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

## 17. FIRM EXPERIENCE:

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|---|---|---|---|---|
| Firm Name | WAGGONER | | | |
| Project Name | Hooper Road Widening (LA 408)<br>Blackwater - Joor | Past Performance Evaluation Category(ies)* | | Other (Project Management) & (SUE), Right-of-Way, Road, Survey, Traffic |
| | | Firm Responsibility | Prime | |
| Project Number | H.002316 | Owner's Name | East Baton Rouge DOT 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 |

**Team Members Involved:**

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

**Project Relevance:**

- √ Project Management
- √ Road Design
- √ Drainage Evaluation
- √ Utility Coordination
- √ Preliminary & Final Rd Plans
- √ Topographic Survey
- √ Property Survey
- √ ROW Map
- √ Construction Support

**Project Description:**

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

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

The construction plans include the following:

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

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

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

## 17. FIRM EXPERIENCE:

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|---|---|---|---|---|
| Firm Name | WAGGONER | | | |
| Project Name | IDIQ Contract for Roadway Design Services | Discipline(s)* | | Road, Survey, Traffic, Other (Project Management) |
| | | Firm Responsibility | Prime | |
| Project Number | 440002991 \| 4400019010 | Owner's Name | LADOTD | |
| Project Location | Statewide | Owners Project Manager | Toby Picard, PE | |
| Owners Address, Phone, Email | PO Box 94245, Baton Rouge, LA 70806 \| 225.379.1302 \| toby.picard@la.gov | | | |
| Services Commenced by this Firm (mm/yy) | 8/20 | Total Consultant Contract Cost ($1,000's) | | $1,134 (fee) |
| Services Completed by this Firm (mm/yy) | 8/25 | Cost of Consultant Services Provided by this Firm ($1,000's) | | $870 (fee) |

**Team Members Involved:** Robert Lear, Alex Farr, Bryan Harmon, Joshua Renard, Kelsie Bankston, Jace Ricard, Steven Gilliam, Wesley Melancon

### Project Relevance:

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

### Project Description:

Waggoner was selected to deliver design services to the LADOTD Road Design section. This **retainer contract** has the same scope of services elements as the advertised contract. Task orders under this contract address urban and suburban **corridor improvements, capacity improvements, intersection improvements, and hydraulic upgrades**.

**H.011261 LA427: S. Acadian Thruway (Perkins Rd – LA 73):**
Road design and topo survey performed by legacy Sigma under separate LADOTD Safety Retainer contract. Provided alternative **intersection layout** and **complete streets/ADA compliance sidewalk** ramps at the Acadian/Claycut intersection. Plans included **revised geometrics** and **permanent pavement marking** sheets.

**H.014415 LA352 Drainage Improvements:**
Hydraulics design and **construction plan preparation of regional drainage improvements** in the vicinity of the I-10 Henderson exit in St. Martin Parish. Design included **HEC-RAS modeling**, removing undersize pipes at 3 locations on LA352, **installation of a 10x6 RCB** at two locations, and installation of a combination of **open ditch and subsurface drainage** bypass system. Scope of work included **topographic surveying**, right of way maps, plan profiles, cross sections, suggested sequence of construction, local detours, structural design, H&H analysis, **utility conflict matrix and utility coordination** with District 03, construction cost estimate, Level 2 **TMP**, and **construction support**.

**H.010652 LA73: US 61 (Airline) – Essen Lane:**
**PP and FP road design** to **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 estimates. Design focused on **suggested sequence of construction** to **minimize impacts** to the motoring public.

**H.010116 LA 1088: Soult & Trinity Roundabouts:**
Waggoner is providing **road design engineering** and related services for two **intersections** and **complete streets design**. The roundabout at Soult St. includes complex **spiral geometrics** for lane assignments. The design incorporates NCHRP 1043 roundabout guidelines for speed control. Complete streets include a **14' multi-use path** on one side of the corridor due to existing constraints.

## 17. FIRM EXPERIENCE:

| | | | | |
|---|---|---|---|---|
| Firm Name | APS Engineering and Testing | | | |
| Project Name | I-10 Widening LA 415 to Essen Ln | Past Performance Evaluation Category(ies)* | Geotech | |
| | | Firm Responsibility | Prime | |
| Project Number | H.004100 | Owner's Name | LADOTD | |
| Project Location | Baton Rouge, LA | Owners Project Manager | Kristy Smith, PE | |
| Owners Address, Phone, Email | 1201 Capital Access Rd., Baton Rouge, LA 70802 \| 225.379.1016 \| kristy.smith2@ls.gov | | | |
| Services Commenced by this Firm (mm/yy) | 09/19 | Total Consultant Contract Cost ($1,000's) | N/A | |
| Services Completed by this Firm (mm/yy) | Ongoing | Cost of Consultant Services Provided by this Firm ($1,000's) | $600 | |

**Team Members Involved:**

Sergio Aviles, Sai Eddanapudi, Surendra Pathak

**Project Description:**

Comprehensive Geotechnical Investigation and Design Support, A P S Engineering and Testing, LLC performed a comprehensive **geotechnical investigation** to provide the client with all necessary **subsurface information** for the **planning and design of the I-10 widening project** between the Washington Street Exit and LSU Lakes. The scope included the **drilling and sampling** of 77 deep borings, consisting of **16 over-water borings** and **61 land borings**, strategically located to address anticipated **deep foundation and MSE Walls design** needs. Our field operations incorporated multiple drilling techniques to address varying site conditions, and all sampling was conducted in accordance with **ASTM and LADOTD standards**. The project required complex **over-water operations** with **specialized equipment mobilization** and **safety compliance procedure**s. Laboratory testing was performed exclusively in our AASHTO-Accredited Geotechnical Laboratory, including:

- Soil Classification – ASTM D2487 (Unified) / ASTM D3282 (AASHTO)
- Natural Moisture Content – ASTM D2216
- Liquid limit, plastic limit, and plasticity index (ASTM D4318)
- Grain Size Analyses – ASTM D422
- Minus No. 200 Wash Sieve Analysis – ASTM D1140
- Unconsolidated Undrained (UU) Triaxial Tests – ASTM D2850
- One-Dimensional Consolidation Testing – ASTM D2435
- Specific Gravity – ASTM D854

All results were subjected to **QA/QC review** by **senior geotechnical engineers**, ensuring that the design team received **reliable engineering parameters** for design. As a result, a geotechnical report was prepared with site-specific design recommendations for deep foundations, embankment stability, and **MSE wall structures**, enabling the client to move forward with confidence in the **design phase**.

**Project Relevance:**

- √ Geotechnical Explorations
- √ Geotechnical Design
- √ Geotechnical Construction
- √ CMAR
- √ Constructability
- √ Contract Management

## 17. FIRM EXPERIENCE:

| | | | | |
|---|---|---|---|---|
| Firm Name | APS Engineering and Testing | | | |
| Project Name | Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge | Past Performance Evaluation Category(ies)* | | Geotech |
| | | Firm Responsibility | Subconsultant | |
| Project Number | H.001352; H.002273 | Owner's Name | Huval & Associates, Inc. | |
| Project Location | East Baton Rouge, Louisiana | Owners Project Manager | | |
| Owners Address, Phone, Email | 922 W. Pont Des Mouton Rd. Lafayette, LA 70507 \| 337.264.3798 \| tgattle@huvalassoc.com | | | |
| Services Commenced by this Firm (mm/yy) | 11/19 | Total Consultant Contract Cost ($1,000's) | | N/A |
| Services Completed by this Firm (mm/yy) | 06/22 | Cost of Consultant Services Provided by this Firm ($1,000's) | | $150 |

**Team Members Involved:**

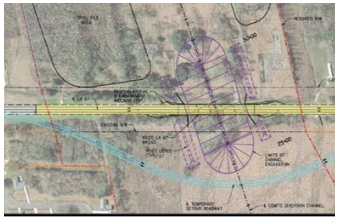
Sergio Aviles, Sai Eddanapudi, Surendra Pathak

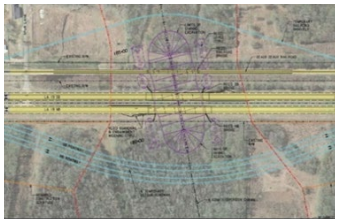
**Project Relevance:**

- √ Geotechnical Explorations
- √ Geotechnical Design
- √ Geotechnical Construction
- √ CMAR
- √ Constructability
- √ Contract Management

**Project Description:**

APS Engineering and Testing, LLC provided complete **geotechnical services** to support the planning, design, and construction of multiple structures along the **LA-19 corridor**, including the **LA-19 bridge** (slope stability/embankment), **LA-19 railroad bridge** (embankment/MSE wall settlement/retaining wall), **LA-19 twin bridges**, and the **LA-67 bridge** (prestressed concrete piles).





The investigation included **drilling and sampling** of 19 deep borings ranging from **50 ft to 120 ft**, followed by an extensive laboratory testing program in our AASHTO-accredited laboratory including:

- Moisture content (ASTM D2216)
- Liquid limit, plastic limit, and plasticity index (ASTM D4318)
- Unconsolidated-Undrained triaxial compression (ASTM D2850)
- One-Dimensional Consolidation (ASTM D2435)

All data was analyzed to develop the **geotechnical design** parameters for **Slope Stability, Settlement, MSE wall, and Deep Foundations design**. As the project advanced into construction, A P S was also retained by LADOTD to provided full geotechnical engineering services during construction, services included:

- PDA instrumentation and CAPWAP analysis for driven piles
- Field inspection and verification of test piles
- Construction Materials Testing (CMT) for soils, concrete, and aggregates

## 17. FIRM EXPERIENCE:

| | | | | |
|---|---|---|---|---|
| Firm Name | APS Engineering and Testing | | | |
| Project Name | US-90 Railroad Overpass (S. East of LA-85) | Past Performance Evaluation Category(ies)* | | Geotech |
| | | Firm Responsibility | Subconsultant | |
| Project Number | H.010155 | Owner's Name | Shread-Kurykendall & Associates, Inc | |
| Project Location | Iberia Parish, LA | Owners Project Manager | Nicci D. Gill | |
| Owners Address, Phone, Email | 13016 Justice Ave., Baton Rouge, LA 70816 \| 225.296.1335 \| ngill@skanger.com | | | |
| Services Commenced by this Firm (mm/yy) | 11/19 | Total Consultant Contract Cost ($1,000's) | | N/A |
| Services Completed by this Firm (mm/yy) | 12/23 | Cost of Consultant Services Provided by this Firm ($1,000's) | | $105 |

**Team Members Involved:**

Sergio Aviles, Sai Eddanapudi, Surendra Pathak

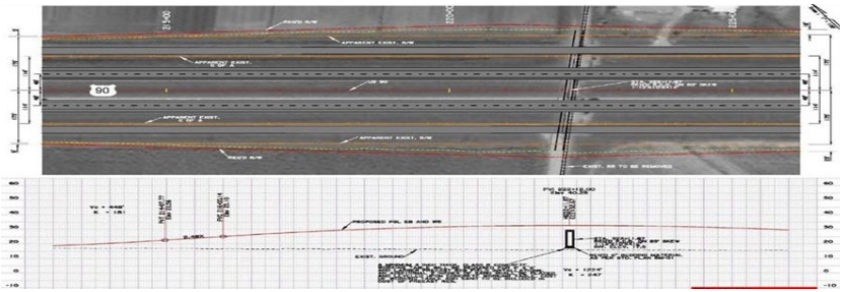
**Project Description:**

APS Engineering and Testing, LLC performed full-service **geotechnical investigation** and **engineering analysis** to support the planning and design of a **2,400-foot bridge**. The scope work included **drilling twelve (12) borings** to depths of 120 ft, with continuous undisturbed sampling from the ground surface to **20 ft and at 5-ft intervals** thereafter to ensure h**igh-quality data** for design purposes.

All laboratory testing was performed in our AASHTO-accredited laboratory following ASTM standards, including:

- Visual description and classification of soils (ASTM D2488)
- Moisture content (ASTM D2216)
- Minus No. 200 Wash Sieve Analysis – ASTM D1140
- Liquid limit, Plastic limit, and Plasticity index (ASTM D4318)
- Unconsolidated-Undrained triaxial Compression (ASTM D2850)
- One-Dimensional Consolidation (ASTM D2435)

The engineering analysis included **Slope Stability, Settlement analysis, MSE wall design, and deep Pile foundations design recommendations**, ensuring a complete geotechnical design report. Recommendations were also provided for constructability and long-term performance of the bridge foundations.



**Project Relevance:**

- √ Geotechnical Explorations
- √ Geotechnical Design
- √ Geotechnical Construction
- √ CMAR
- √ Constructability
- √ Contract Management

## 17. FIRM EXPERIENCE:

| | | | | |
|---|---|---|---|---|
| Firm Name | NTBA | | | |
| Project Name | Jimmie Davis Bridge (LA 511) Design-Build | Past Performance Evaluation Category(ies)* | | Other (SUE), Right-of-Way, Survey |
| | | Firm Responsibility | Subconsultant | |
| Project Number | H.001779 | Owner's Name | LADOTD/James Construction/Huval & Associates, Inc. | |
| Project Location | Bossier & Caddo Parishes, LA | Owners Project Manager | Thomas Gattle, III, PE | |
| Owners Address, Phone, Email | 922 West Pont Des Mouton Road, Lafayette, LA 70507 \| 337.234.3798 \| tgattle@huvalassoc.com | | | |
| Services Commenced by this Firm (mm/yy) | 01/22 | Total Consultant Contract Cost ($1,000's) | $1,168 | |
| Services Completed by this Firm (mm/yy) | Ongoing | Cost of Consultant Services Provided by this Firm ($1,000's) | $1,168 | |

### Team Members Involved:

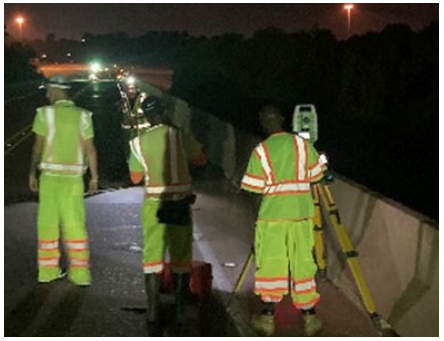
Mike King, Bryan Bunch, Patrick Staiano

### Project Description:

NTBA is performing **Static GPS control, topographic and property surveying services, traffic control, utility coordination services, QL A, B, C, & D utility designating/locating**, as well as preparing **title takeoffs, 60% ROW Maps, Final ROW Maps, and legal descriptions** for the **design-build** project to replace the Jimmy Davis Bridge across the Red River. The scope of this project consists of constructing a **new four lane structure** carrying LA 511 across the Red River, converting LA 511 (Jimmie Davis Hwy) into a **four-lane, median-divided highway** on the east side of bridge; as well as providing full access interchanges between LA 511 and Clyde Fant Memorial Parkway and Arthur Ray Teague Parkway. NTBA designed and implemented a **Traffic Control Plan** for a bridge closure to verify the horizontal and vertical control set by LADOTD during the original survey and verified the vertical control for both sides by running digital levels across the bridge, which was not performed in the original survey. All of this was completed during **night shifts to ensure the safety of employees and the public** as well as to **avoid traffic disruptions.**

NTBA performed **property surveys and title take-offs** for approximately 50 properties adjacent to the route and a property survey submittal prepared with apparent ROW shown. **Final Mylar ROW Maps** have been submitted for 21 parcels requiring ROW taking. The set included 21 plan and 1 title sheet.

NTBA performed **SUE services** to designate all utilities within the limits. A **conflict matrix** was created showing the utilities in conflict with the construction. We are coordinating with the utility owners to **relocate utilities** that conflict with the construction and will monitor the relocation to ensure compliance with relocation plans. NTBA is utilizing the **Louisiana Department of Transportation Survey and Design Manual Addendum A** as well as **CI/ASCE Standard 38-02**.



**Project Relevance:**

- √ Topographic Survey
- √ Title Takeoffs
- √ Property Survey
- √ ROW Maps
- √ SUE Services
- √ SUE & Utility Relocation

## 17. FIRM EXPERIENCE:

| | | | | |
|---|---|---|---|---|
| Firm Name | NTBA | | | |
| Project Name | Rural Bridge Replacement Initiative Phase II | Past Performance Evaluation Category(ies)* | | Survey |
| | | Firm Responsibility | Subconsultant | |
| Project Number | 4400019338 | Owner's Name | LADOTD | |
| Project Location | Districts 02, 03, 07, 61, & 62 | Owners Project Manager | Valerie Tourres, PE | |
| Owners Address, Phone, Email | PO Box 94245, Baton Rouge, LA 70806 \| 225-379-1308 \| Valerie.Tourres@la.gov | | | |
| Services Commenced by this Firm (mm/yy) | 09/20 | Total Consultant Contract Cost ($1,000's) | | $1,289 |
| Services Completed by this Firm (mm/yy) | Ongoing | Cost of Consultant Services Provided by this Firm ($1,000's) | | $1,289 |

### Team Members Involved:

Bryan Bunch, Mike King, Patrick Staiano

### Project Description:

NTBA is performing **GPS Control surveys, topographic surveys, property surveys, title take-offs, legal description preparation, preliminary and final ROW mapping, and QL C & D subsurface utility services** for **21 bridge and culvert replacements** throughout South Louisiana. **Topographic surveying** includes surveying of all sub-surface drainage structures, **200 feet upstream** and downstream with cross-sections every **50 feet along channels, deck gutter lines, centerline of joints, low chord elevations, bent locations**, and **ROW** 800 feet either side of the structure. **Subsurface utility engineering** services include QL C and QL D utility mapping. NTBA produced electronic topographic drawings in **MicroStation** depicting all utility and topographic information. Data was provided to the engineering consultant for incorporation into their **hydraulic model** being utilized to evaluate the system.

**Boundary surveying** has been performed for **15 bridges** with approximately **50 parcels**. Services include surveying of each parcel affected by either construction servitude or additional **ROW requirements** as well as production of **property survey submittal, preliminary and final ROW maps**, and **parcel descriptions.** All services are being completed in accordance with the Location and Survey Manual Addendum A and all currently accepted Location and Survey Automated procedures.

**Project Relevance:**

- √ Topographic Survey
- √ Property Survey
- √ Title Takeoffs
- √ ROW Maps
- √ SUE Services

## 17. FIRM EXPERIENCE:

| | | | | |
|---|---|---|---|---|
| Firm Name | NTBA | | | |
| Project Name | IDIQ Contract for Professional Boundary Surveying Services | Past Performance Evaluation Category(ies)* | | Survey |
| | | Firm Responsibility | Prime | |
| Project Number | 4400027918 | Owner's Name | LADOTD | |
| Project Location | Livingston, Vernon, & Natchitoches Parishes, LA | Owners Project Manager | J. Mark Williams /Jason David | |
| Owners Address, Phone, Email | 1201 Capitol Access Road, Baton Rouge, LA 70802 \| 225.379.1828 \| jonathan.williams3@la.gov | | | |
| Services Commenced by this Firm (mm/yy) | See Task Orders Below | Total Consultant Contract Cost ($1,000's) | | $1,000 |
| Services Completed by this Firm (mm/yy) | | Cost of Consultant Services Provided by this Firm ($1,000's) | | $122 |

**Team Members Involved:**

Bryan Bunch, Patrick Staiano

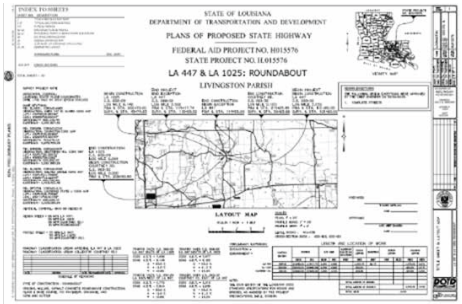
**Project Relevance:**

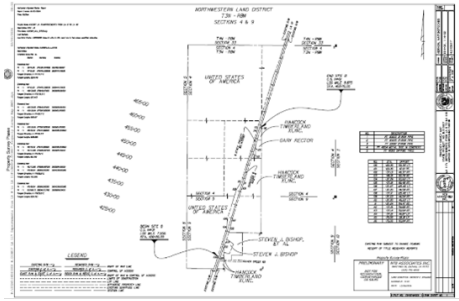
√ Topographic Survey
√ SUE Services

**Project Description:**

**Task Order No. 1 (H.015576): LA 447 & LA 1025 Roundabout, Livingston Parish, LA (09/24 – Ongoing)**

NTBA is performing topographic surveys, property surveys, title take-offs, description preparations, preliminary and final ROW mapping in support of design plans to replace the existing four-way stop with a roundabout. The project is in Livingston Parish, approximately 3.2 miles north of Walker, LA. The intersection of LA 447 (Walker Road North), LA 1025 (Arnold Rd), and Courtney Rd is currently a four-way stop. This project will replace the existing four-way stop with a roundabout. Approximately 23 parcels will be affected by the required ROW. NTBA utilized the existing project control from the topographic survey performed by others. However, NTBA performed topographic surveys to pick up structures within 50 feet of the required ROW lines for the project.



**Task Order No. 2 (H.013817): LA 117: Improvements from LA 8 to LA 118, Vernon & Natchitoches Parishes, LA (10/24 – 03/24)**

NTBA performed property surveys and title take-offs in support of roadway design improvements. This project was located approximately 7 miles north of Leesville and consisted of five sites along LA 117, of which 4 sites were included in the property survey. There were approximately 16 parcels within the project limits with nine landowners, of which the largest landowner is the United States of America. The sites along LA 117 are bounded on the west by Peason Ridge WMA, which contains property used by the Joint Readiness Training Center for US military exercises. A portion of the project was also within Kisatchie National Forest. Because of the large amount of property owned by the United States Government, NTBA surveyed whole sections to establish property lines for the project. NTBA scheduled field work to not conflict with US military exercises and had to avoid portions of US Government property that had signage warning of the potential for unexploded ordnance. Upon submittal of the property survey, LADOTD determined the existing ROW of LA 117 was sufficient for the proposed design improvements, and that no additional ROW would be required.

## 17. FIRM EXPERIENCE:

| | | | | | |
|---|---|---|---|---|---|
| Firm Name | VECTURA CONSULTING SERVICES, LLC | | | | |
| Project Name | I-20: LA 544 Overpass Replacement | Past Performance Evaluation Category(ies)* | | Traffic | |
| | | Firm Responsibility | Subconsultant | | |
| Project Number | H.010616 | Owner's Name | LADOTD | | |
| Project Location | Baton Rouge, LA | Owners Project Manager | Jacob Fusilier | | |
| Owners Address, Phone, Email | 1201 Capitol Access Road, Baton Rouge, LA 70802 \| 225.379.1185 \| jacob.fusilier@la.gov | | | | |
| Services Commenced by this Firm (mm/yy) | 04/23 | Total Consultant Contract Cost ($1,000's) | | Unknown | |
| Services Completed by this Firm (mm/yy) | 10/23 | Cost of Consultant Services Provided by this Firm ($1,000's) | | $131.973 | |

**Team Members Involved:**

Laurence Lambert, Brin Ferlito, Reece Rodrigue, Kristen Farrington (100% performed in Louisiana)

**Project Relevance:**

- √ Transportation Management Plan (TMP)
- √ Traffic Systems Management (TSM)

**Project Description:**

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

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

## 17. FIRM EXPERIENCE:

| | | | | |
|---|---|---|---|---|
| Firm Name | VECTURA CONSULTING SERVICES, LLC | | | |
| Project Name | US 11 (Front St.) at US 190 Bus. (Fremaux Ave.) Traffic Study | Past Performance Evaluation Category(ies)* | Traffic | |
| | | Firm Responsibility | Subconsultant | |
| Project Number | N/A | Owner's Name | City of Slidell | |
| Project Location | Slidell, LA | Owners Project Manager | Eric Lundin | |
| Owners Address, Phone, Email | 250 Bouscaren Street, Slidell, LA 70458 \| 985.646.4320 \| elundin@cityofslidell.org | | | |
| Services Commenced by this Firm (mm/yy) | 9/17 | Total Consultant Contract Cost ($1,000's) | unknown | |
| Services Completed by this Firm (mm/yy) | 11/17 | Cost of Consultant Services Provided by this Firm ($1,000's) | $38.8 | |

**Team Members Involved:**

Laurence Lambert, Brin Ferlito (100% performed in Louisiana)

**Project Relevance:**

- √ Transportation Management Plan (TMP)
- √ Traffic Systems Management (TSM)

**Project Description:**

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

**Data Collection**

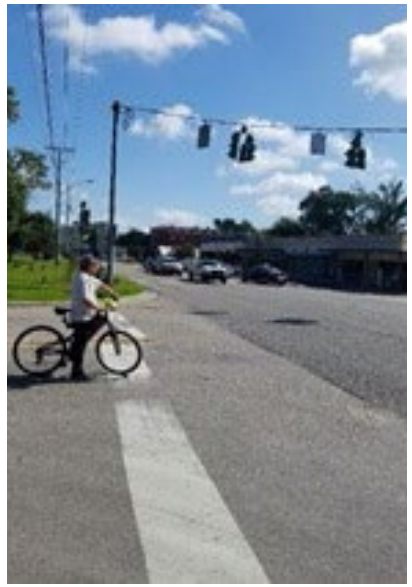
- AM and PM peak hour turning movement counts for five intersections
- AM/PM peak 15-minute turning movement counts for 10 driveways on Fremaux Ave.
- 24-hour traffic approach volumes, speed data, crash history and sight distance for the intersection of US 190 Bus. (Fremaux Ave.) at US 11 (Front St).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

**Draft Traffic Study**

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

This task included the following elements:

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



## 17. FIRM EXPERIENCE:

| | | | | |
|---|---|---|---|---|
| Firm Name | VECTURA CONSULTING SERVICES, LLC | | | |
| Project Name | Stage 0 Feasibility Study – US 190B/ Fremaux Ave. Sidewalk Study | Past Performance Evaluation Category(ies)* | | Traffic |
| | | Firm Responsibility | Subconsultant | |
| Project Number | H.972462.1 | Owner's Name | New Orleans Regional Planning Commission | |
| Project Location | Slidell, LA | Owners Project Manager | Nelson Hollings | |
| Owners Address, Phone, Email | 10 Veterans Blvd, New Orleans, LA 70124 \| 504.483.8523 \| nhollings@norpc.org | | | |
| Services Commenced by this Firm (mm/yy) | 09/16 | Total Consultant Contract Cost ($1,000's) | $65 | |
| Services Completed by this Firm (mm/yy) | 05/17 | Cost of Consultant Services Provided by this Firm ($1,000's) | $30 | |

**Team Members Involved:**

Brin Ferlito, Laurence Lambert, Kristen Farrington, Reece Rodrigue (100% performed in Louisiana)

**Project Relevance:**

- √ Transportation Management Plan (TMP)
- √ Traffic Systems Management (TSM)

**Project Description:**

Vectura was hired as a subconsultant to collect data for vehicles, pedestrians, and bicycles for a sidewalk improvement on US 190B in Slidell, LA. Vectura collected 7-day classification counts at two locations, 7-day ped and bike counts at two locations, six turning movement counts, three turning movement counts with demand, 15-minute driveway counts and three radar spot-speed survey.

Vectura coordinated with the City of Slidell and DOTD District 62 to identify the peak periods for the turning movement counts. Vectura then processed the turning movement counts from our video camera (as shown to the right). All the data was formatted and included in the traffic report to conform to the DOTD TEPR format.

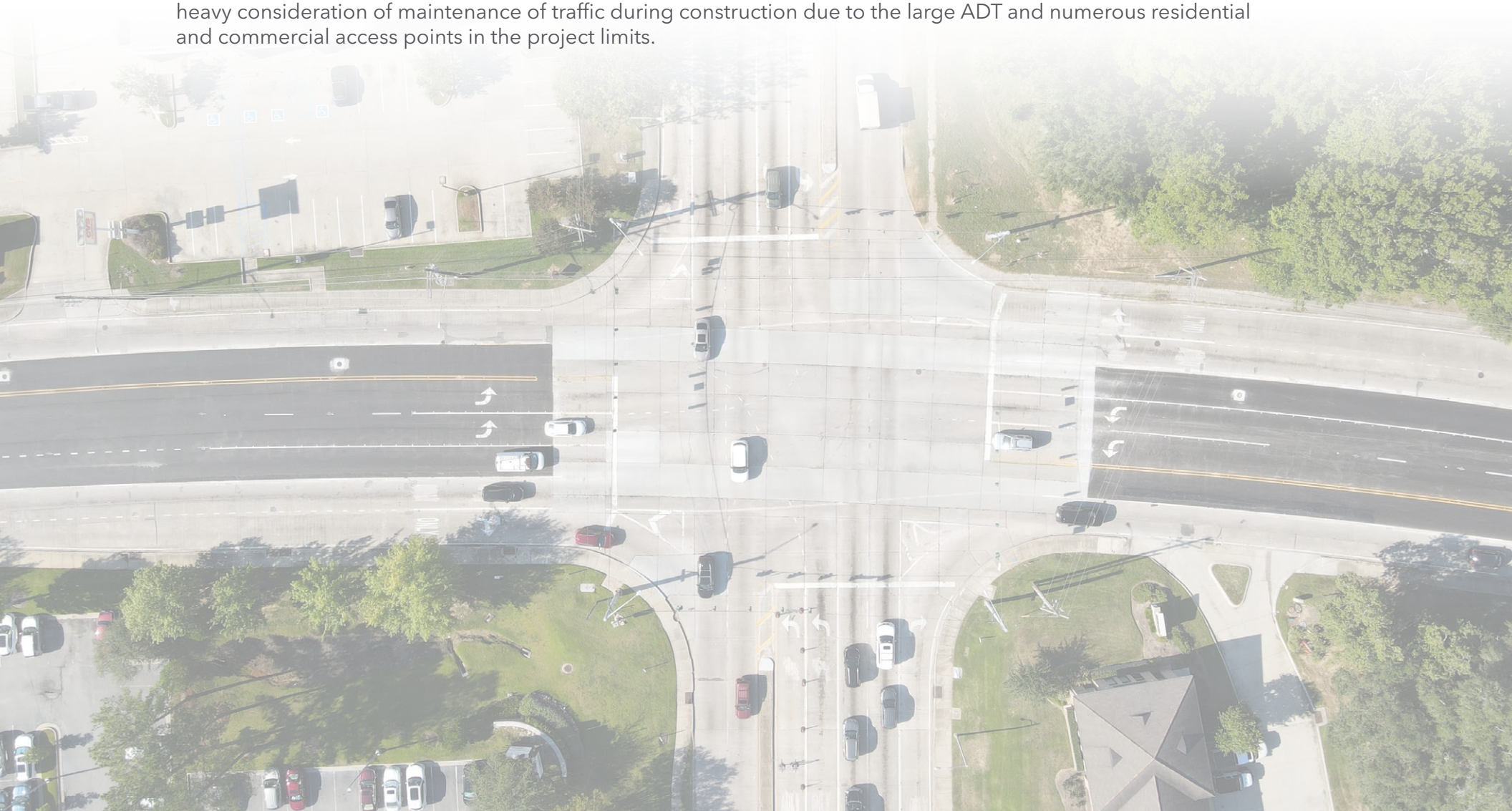
# Section 18

LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane)
H.010652

Waggoner Engineering, Inc.
Lead Road Design Firm

Past Performance Disciplines performed by Waggoner: Road, Traffic

Showing interim completion of major roadway rehabilitation/replacement in East Baton Rouge. Project involved heavy consideration of maintenance of traffic during construction due to the large ADT and numerous residential and commercial access points in the project limits.



# 18. APPROACH AND METHODOLOGY:

## IDIQ BACKGROUND AND UNDERSTANDING

Waggoner fully understands that LADOTD's Indefinite Delivery/Indefinite Quantity (IDIQ) contracts are structured to provide rapid, flexible, and cost-effective engineering services across multiple project types within District 04. The purpose of this vehicle is to ensure LADOTD has immediate access to qualified professionals who can manage varying scopes and schedules without the delays of individual procurements.

We are well-versed in this framework, having successfully executed multiple LADOTD retainer and IDIQ contracts, including:

- Roadway Design Retainer Contracts (44-2747 and 44-19010)
- Highway Safety IDIQ Contracts (44-2710)
- Bridge Preservation Retainer Contracts (44-0634)
- Subsurface Utility Engineering (SUE) Contracts (44-19183 and 44-25512)

√ **IDIQ CONTRACT FOR DESIGN SERVICES WITH MAJORITY OF WORK IN DISTRICT 61 (44-32781): Waggoner was recently awarded this contract and has already met in the field with District personnel to develop scopes and man-hour estimates for the following LTIF pavement preservation projects: State Project No. H.016796.5 (LA 404: LA 75 – LA 3001) and State Project No. H.016795.5 (LA 983: LA 964 – LA 416). This recent experience reflects our understanding of LADOTD District procedures, budgeting development, and accelerated project delivery expectations.**

We understand that LADOTD's IDIQ program prioritizes Full-Size Design Plans and Pavement Preservation projects. Building on more than 30 years of proven experience the Waggoner team delivers complete plan sets that meet LADOTD standards, streamline reviews, and ensure constructability. We are also skilled in evaluating pavement conditions and recommending cost-effective preservation strategies that extend roadway life, minimize traffic disruptions, and optimize budgets.

Three seasoned professionals lead our team, bringing decades of LADOTD experience and technical design expertise to every task order. Together, they ensure the Waggoner team delivers solutions that are proactive, innovative, and fully aligned with LADOTD's goals.

**Alex Farr, PE | Project Manager** – Alex offers extensive experience in roadway design and project management, with a proven track record of delivering LADOTD projects from concept through construction. He is skilled in applying LADOTD design standards, managing multidisciplinary teams, and coordinating effectively with district staff and stakeholders. Alex's leadership ensures task orders are scoped accurately, developed efficiently, and delivered on schedule. His focus on constructability, communication, and problem-solving makes him a valuable asset to the Waggoner team and to LADOTD.

**Robert Lear, PE, LSI | QA/QC Manager** – Robert has more than 25 years of experience developing LADOTD compliant plans and is recognized for his strength in roadway designs. His expertise spans geometric design, hydraulics, and bridge layouts, with an emphasis on accuracy, constructability, and schedule adherence. e.

**Andrew Windmann, PE | Discipline Lead** – Andrew is a licensed civil engineer with more than 15 years of experience in bridge design, including 13 years with LADOTD. As Assistant Bridge Design Administrator for LADOTD (2021–2023), he managed a $240 million statewide bridge program, directing planning and design for rehabilitation and replacement projects in accordance with DOTD standards and QA/QC procedures.

We have partnered with subconsultants **Vectura Consulting Services, LLC (Vectura), APS Engineering and Testing (APS), and NTB Associates, Inc. (NTBA)** to form a team with both the technical resources and LADOTD experience needed to help the Department implement its Strategic Improvement Plan. Our team has a history of working together on LADOTD projects with a proven track record of successful on-time project delivery. **The team has been strategically staffed to ensure at minimum of three (3) concurrent task orders will be manageable and remain at focus to achieve schedule and quality commitments and expectations.**

## APPROACH AND KEYS TO SUCCESS

Our approach to this IDIQ contract include the following elements, which are key to successfully delivering all project types:

√ **Swift Execution of Task Orders:** We will coordinate closely with the LADOTD project manager to identify opportunities for early coordination, minimizing response times and ensuring all tasks are completed on or ahead schedule. We acknowledge this contract is under a compressed time frame.

√ **Define Expectations Early:** Effective communication drives project success. We will actively engage all stakeholders and remain committed to meeting or exceeding expectations during task order negotiations, scoping, and schedule development. We will document each discussion and apply the outcomes consistently across the contract.

√ **Establish Communication Protocols and Documentation:** As part of our Project Management Plan (PMP), we will establish a communication matrix identifying key team members, assignments, and responsibilities. All major meetings and discussions will be documented, as well as all submittal reviews, comments, and decisions. Waggoner has adopted LADOTD's Form DR as our standard for documenting all submittal review comments and responses. This form originated in the design-build process and has a proven track record for effectively addressing and resolving comments.

√ **Diligent Project Management:** Our project manager, Alex Farr, PE, will actively advance the project schedule, monitor the budget, and forwardly orchestrate the design team to meet the project goals for each task order.

- √ **Site Visits:** There is no substitute for seeing existing conditions firsthand to grasp the full scope and details needed for a successful design project. For each task order, whether for pavement preservation or full design projects, all key personnel will visit the site to gain a firsthand understanding of the landscape, constraints, and existing conditions of the project corridor.

- √ **Quality Control:** Waggoner has a rigorous quality control process that will be incorporated throughout the contract. Every submittal will be reviewed for both technical accuracy and relevant content. A copy of our quality control procedures will be submitted to LADOTD upon selection.

## METHODOLOGY

The LADOTD project delivery manual (PDM) forms the backbone of our methodology. The Waggoner team applies the systematic plan and principles outlined in the PDM and supplements with them with procedures and directives from the LADOTD Road Design Manual, Hydraulics Manual, and all relevant minimum design guidelines.

The following outline of services highlights the project development process we will follow, beginning with task order initiation, for a typical task order issued under this IDIQ contract and adjusted as appropriate for tasks that deviate from this standard.

- √ **Scope and Task Development:** Upon task order assignment, we will work with the LADOTD project manager to define scope, establish the project purpose and need, and set key parameters such as manhours, sheet count, and schedule. We will also address any NEPA or Stage 0 requirements and complete the preliminary scope and budget checklist. This early coordination aligns LADOTD and Waggoner on goals, deliverables, and expectations, enabling accurate manhour estimates for fee negotiation.

- √ **Kick-Off Meeting and Work Planning:** Once a Notice to Proceed is issued, Waggoner and LADOTD will hold a project kick-off meeting, preferably in person. The appropriate LADOTD and Waggoner team members will walk through the task order/project scope, determine the dates for milestone deliverables, and estimate LADOTD review periods at each milestone. The project design criteria, Stage 0 environmental constraints, and safety concerns will also be discussed and documented. Any LADOTD provided services will be requested at this meeting. All project points of contact with contact information will be collected and minutes of the meeting will be distributed to all pertinent personnel.

- √ **Field Visit:** We will conduct visits within the project limits to better understand the site and identify potential deficiencies related to existing safety features and condition of existing signs and striping. We will also note any site constraints that could impact construction or design. Key areas of interest typically include utility conflicts, existing drainage structures, visible drainage problems, geometric concerns, pavement condition, and details of existing pedestrian facilities.

## SURVEYING SERVICES

Our Louisiana-licensed surveyor, Jace Ricard, PLS, will lead our surveying services using his knowledge and understanding of the processes and delivery requirements in the LADOTD Location & Survey Manual (Oct. 2023) and Addendum A (March 2024). Our subconsultant, NTB Associates will augment our survey team to ensure our team provides capacity to perform on multiple task orders of medium to large size simultaneously.

- √ **Topographic Surveys:** All surveys begin with control surveys. Our team will meet or exceed LADOTD standards for horizontal and vertical precision, defining the appropriate datums, projections, and geoids. LADOTD will approve control sketches before surveys commence. Depending on terrain, we will collect data using RTK, robotic total stations, or 3D LiDAR terrestrial scanning to ensure accuracy. Digital levels will establish vertical control at temporary benchmarks (TBMs). We will code all data and attributes using the LADOTD Feature Code Guide Book. As part of the topographic survey, we will document the location, type, size, and inverts of all drainage structures within the design limits, as well as inventory roadside features such as driveways, mailboxes, and above-ground utilities.

- √ **Property Surveys and Right-of-Way (ROW) Services:** For each assigned task order where ROW acquisition is required, we will begin by performing property surveys to establish horizontal and vertical control, collect detailed topographic data, and identify existing ROW limits, utilities, drainage features, and property boundaries. Using this certified survey information, our team will then prepare Base ROW maps that show existing ROW, property lines, and potential conflicts. These Base maps serve as the foundation for LADOTD review and coordination, allowing acquisition planning and utility adjustments to begin. After LADOTD approval of the Base submittals, we will complete the title take-offs and incorporate the approved ROW lines, legal descriptions, and title research into Final ROW maps. These Final maps will clearly depict proposed acquisitions, servitudes, and easements, and will meet LADOTD standards for property acquisition, legal filing, and construction use.

## GEOTECHNICAL SERVICES

Our team includes APS, a Baton Rouge–based DBE geotechnical firm, which will provide all geotechnical investigations and testing services under this contract.

- √ **Geotechnical Field Investigations and Analysis:** We will perform a desktop study to obtain the data available in the region through various available resources and evaluate the boring locations and depths with the PM. At a minimum, sampling locations and reporting shall be in accordance with LADOTD standards. After receiving the necessary permits, the team will prepare a geotechnical investigation plan, traffic control plan, make a site reconnaissance visit, mark the boring locations in the field and perform a Louisiana One-Call to obtain clear known utilities. The soil borings will be collected and transported (ASTM D4220 standards) to APS's AASHTO accredited laboratories. The thickness of the existing pavement will be noted in places where soil borings will be completed and in additional locations mentioned by the engineer.

- √ **Laboratory Services:** A field representative will complete a chain-of-custody form before delivering the samples to the geotechnical laboratory. The laboratory supervisor will maintain the field logs and extrude any soil samples that are left in the tubes. At a minimum, the locations shall be in accordance with EDSM II.2.1.6. The project manager will be kept up to date with the project status on a regular basis. APS's Baton Rouge lab is accredited by the Louisiana Environmental Laboratory Accreditation Program (LELAP) through the Louisiana Department of Environment Quality (LDEQ).

## ENGINEERING DESIGN SERVICES

√ **Project Design Criteria:** The LADOTD minimum design guidelines for the applicable functional classification will serve as the basis for all anticipated projects. We will prepare the applicable Design Report Form to document proposed features along with supporting discussions for identified design waivers or design exceptions. The draft report will be submitted with the 60% Preliminary Plans submittal to engage stakeholders and reviewers early in the project timeline. **We have extensive experience in developing design waivers and exceptions for LADOTD projects when preferred or acceptable values are unachievable or impractical. We employ FHWA and DOTD acknowledged mitigation strategies such as practical design and Highway Safety Manual methods and tools for addressing waivers and exceptions**.

√ **Roadway Design:** We utilize MicroStation, InRoads/OpenRoads, and CAD Conform to design and create roadway plans and calculations. We know LADOTD's preliminary and final plan delivery requirements and milestones as shown in the Road Design Manual. The LADOTD Road Design Manual, AASHTO Green Book 2018, Roadside Design Guide, LADOTD Hydraulics Manual, MUTCD, LADOTD Complete Streets Policy and accepted LADOTD reference material will be used to guide the road design process. The following section further outlines the typical plan development forecast for the typical task order under this contract. We will also adapt to whatever delivery process is needed by LADOTD to most effectively deliver the scope of the project, including letter-sized plans, when appropriate.

√ **Bridge Design:** While bridge/structural related work is typically less frequent under the District IDIQs, we are well positioned to assist District 4 with any bridge and structural related tasks. We have the necessary breadth and depth of experience working on various structure types in Louisiana that we will leverage, if needed, including bridge replacements, rehabilitations, damage assessments, load ratings, sign supports, box culvert modifications, and retaining walls. All designs and plans will be performed and developed in accordance with the latest version of AASHTO LRFD Bridge Design Specifications as supplemented by the LADOTD Bridge Design and Evaluation Manual along with applicable Bridge Design Technical Memoranda (BDTMs).

√ **Hydraulic Analysis and Design:** LADOTD's HydroWin software and LADOTD's Hydraulics Manual will be the primary tools for hydraulic design on typical projects. We will perform any necessary analysis to provide sufficient design drainage along the roadway and adjacent areas to ensure proper management of stormwater.

√ **Utilities & Subsurface Utility Engineering (SUE) Services:** Waggoner develops a utility conflict matrix for every project to guide coordination. These matrices identify conflict points, recommend appropriate SUE locate/designate methods, and outline final resolutions. Both Waggoner and our subconsultant, NTBA, bring proven SUE capabilities and integrate this expertise directly into our design approach and methodology.

√ **Environmental Process Support:** Our team will develop sketches or exhibits necessary to obtain required permits. We also have experience preparing storm water pollution prevention plans (SWPPP) in accordance with the National Pollution Discharge Elimination System (NPDES) permit.

## TRAFFIC CONTROL DESIGN, TRAFFIC SIGNAL ANALYSIS & DESIGN

All necessary traffic related services will be performed by our subconsultant, Vectura. Their staff has the necessary LADOTD TEPR training, PTOE requirements, and expertise in LADOTD's Traffic Signal Design Manual, Traffic Engineering Process and Report, and EDSM VI.1.1.8 for Transportation Management Plan development.

## TYPICAL PROJECT SCHEDULES

We have worked on LADOTD projects for decades and understand the delivery and production processes for both a typical pavement preservation task order and a full-size design project task order. Our experience allows our team to "hit the ground running" and accelerates the project initiation phase, which is a large part of the work effort. Please see sample project schedules representing both anticipated task orders.

Typical Pavement Preservation Project Schedule

Angus Avenue Over Bene'champ Bayou

MONTHS

| Task Name | Duration | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pre-Contract** | **60 days** | | | | | | | | | | | | | | | | | | |
| Site Visit and Scooping | 15 days | | | | | | | | | | | | | | | | | | |
| Manhour Negotiations | 15 days | | | | | | | | | | | | | | | | | | |
| Task Order Execution | **30** days | | | | | | | | | | | | | | | | | | |
| **Pre-Design** | 60 days | | | | | | | | | | | | | | | | | | |
| NTP & Project Kickoff | 15 days | | | | | | | | | | | | | | | | | | |
| Topographic Survey | 30 days | | | | | | | | | | | | | | | | | | |
| LADOTD Review | 15 days | | | | | | | | | | | | | | | | | | |
| **Preliminary Design** | **195 days** | | | | | | | | | | | | | | | | | | |
| 95% Preliminary Plans (PP) | 45 days | | | | | | | | | | | | | | | | | | |
| Site Inspection Meeting | 15 days | | | | | | | | | | | | | | | | | | |
| 100% PP | 45 days | | | | | | | | | | | | | | | | | | |
| LADOTD Review | 30 days | | | | | | | | | | | | | | | | | | |
| Environmental Clearance | 90 days | | | | | | | | | | | | | | | | | | |
| NTP Final Plans | 1 day | | | | | | | | | | | | | | | | | | |
| **Final Plans (FP)** | **105 days** | | | | | | | | | | | | | | | | | | |
| 95% FP (Advanced Check) | 45 days | | | | | | | | | | | | | | | | | | |
| LADOTD Review | 30 days | | | | | | | | | | | | | | | | | | |
| 100% FP | 30 days | | | | | | | | | | | | | | | | | | |
| Bidding Assistance | 45 days | | | | | | | | | | | | | | | | | | |
| Advertisement for Bids | 30 days | | | | | | | | | | | | | | | | | | |
| Construction Support | TBD | | | | | | | | | | | | | | | | | | |

Typical Full-Sized Project Schedule

Angus Avenue Over Bene'champ Bayou

MONTHS

| Task Name | Duration | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Pre-Contract** | **60 days** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site Visit and Scooping | 15 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manhour Negotiations | 15 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Task Order Execution | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Pre-Design** | **120 days** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NTP & Project Kickoff | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Topographic Survey | 60 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LADOTD Review | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Preliminary Design** | **330 days** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60% Preliminary Plans (PP) | 75 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LADOTD Review | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 95% PP | 60 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Plan-in-Hand Meeting | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100% PP | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LADOTD Review | 15 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Environmental Clearance | 90 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NTP Final Plans (FP) | 1 day | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Final Plans** | **255 days** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60% FP | 60 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60% Based ROW Maps | 60 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Joint Plan Review | 15 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 95% FP (Advanced Check Prints) | 60 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FP Review Mtg. | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Final ROW Maps | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 98% FP | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PQU & Chief Eng. Review | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100% FP | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Utility & ROW Clearance | 180 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bidding Assistance | 45 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Advertisement for Bids | 30 days | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Construction Support | TBD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

## PLAN DEVELOPMENT AND LETTING SUPPORT SERVICES

For Full-Size Design Plans, 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%, 60%, 90%, and 100% preliminary plan (PP) stages and at the 60%, 95% and stamped/signed 98% Final Plan stages.

All required documentation such as review comments and responses, QA/QC certifications, constructability review forms, opinions of probable 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 non-standard item specification write-ups.

| Key Project Milestones | |
|---|---|
| **Pre-Design Tasks** | Conduct project team site visits, initiate Stage 0 environmental checklist or NEPA requirements, begin control and topographic survey, initiate data collection for traffic (if needed), and initiate geotechnical field investigation. |
| **30% PP** | Prepare geometric design, establish typical sections and pavement design, and begin utility conflict matrix. Roundabouts rely heavily on 30% PP submittals to establish complex geometrics and complete streets design elements. **For straightforward projects, we recommend eliminating this submittal and move directly to the 60% PP submittal phase to save LADOTD time and money.** |
| **60% PP** | Address comments from 30% PP submittal, establish horizontal and vertical geometry, design drainage and construction sequencing, prepare cross sections, initiate property survey, and establish apparent ROW. |
| **90% PP and/ or 95% PIH** | Address all comments from prior submittals, review for constructability, finalize ROW, and complete preliminary QA/QC checklist. An opinion of probable construction cost and detailed pay item list are included. |
| **100% PP** | Address comments from the plan-in-hand meeting, finalize property survey and base ROW maps, and create permit sketches. |
| **60% FP** | Finalize typical section, roadway geometrics, drainage design, required right-of-way taking lines, and include quantities summary tables in the plans. Detail sheets such as geometric details, joint layouts, graphical grades, permanent pavement markings, permanent signing, traffic signal plans, structural details, and final drainage calculations are included. |
| **Joint Plan Review** | Meet with LADOTD Location & Survey section and ROW consultant to finalize ROW maps. |
| *NOTE: We will not proceed to 90% FP until Environmental Clearance is obtained.* | |
| **95% FP (Advance Check Prints)** | Address comments from the 60% FP review and JPR meeting, attend final plan review meeting with the project team, conduct final QA/QC checks, and complete final constructability/biddability review documents. |
| **98% FP** | Address comments from the final plan review meeting, prepare full-sized sealed plans, final calculations, files, special provisions, and final construction cost estimate for submission to LADOTD. |
| **100% FP** | Complete all final plans, specifications, and estimates, transmit plans to general files, and set the letting date. |

For **Pavement Preservation Projects**, we recognize that the design process will follow an abbreviated submittal path tailored to the scope of preservation work. Instead of the full suite of submittals typical of new roadway design, these projects will focus on targeted deliverables that efficiently move from concept to construction. **Preliminary Plans** will be submitted at the 95% and 100% stages, ensuring adequate time for LADOTD to review and confirm scope and design assumptions before finalization. For the **Final Plans,** we will submit at 95% (ACP) and 100%, providing LADOTD with a streamlined review process while maintaining the technical accuracy and constructability expected of every deliverable. This approach reduces review effort, aligns with LADOTD's preservation program goals, and expedites project delivery without sacrificing quality.

**Letting Support Services:** Once the project has been advertised for bids, our team will provide responses to contractor questions submitted via the Falcon/ WebSuite online site. If any questions result in the need for plan revisions, we will update the affected sheet(s) in accordance with EDSM No. I.1.1.28 - Procedures for final plan transmittal and final plan modifications, including plan revisions and/or plan changes resulting from change orders. We understand the time-sensitivity of these responses and will strive to provide quick, yet thorough replies once we are made aware of any new inquiry.

## OPINION OF PROBABLE CONSTRUCTION COSTS, PAY ITEMS, AND QUANTITIES

For each task order, we will prepare an Opinion of Probable Construction Cost (OPCC) at the 90% PP stage and update it with every subsequent submittal. 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. Waggoner will develop special provisions and assist with developing non-standard items when encountering scope that is not already detailed in the standard specifications. The team also understands and applies the requirements for breaking down quantities by construction funding sources and control sections when project limits cross control sections or parish lines.

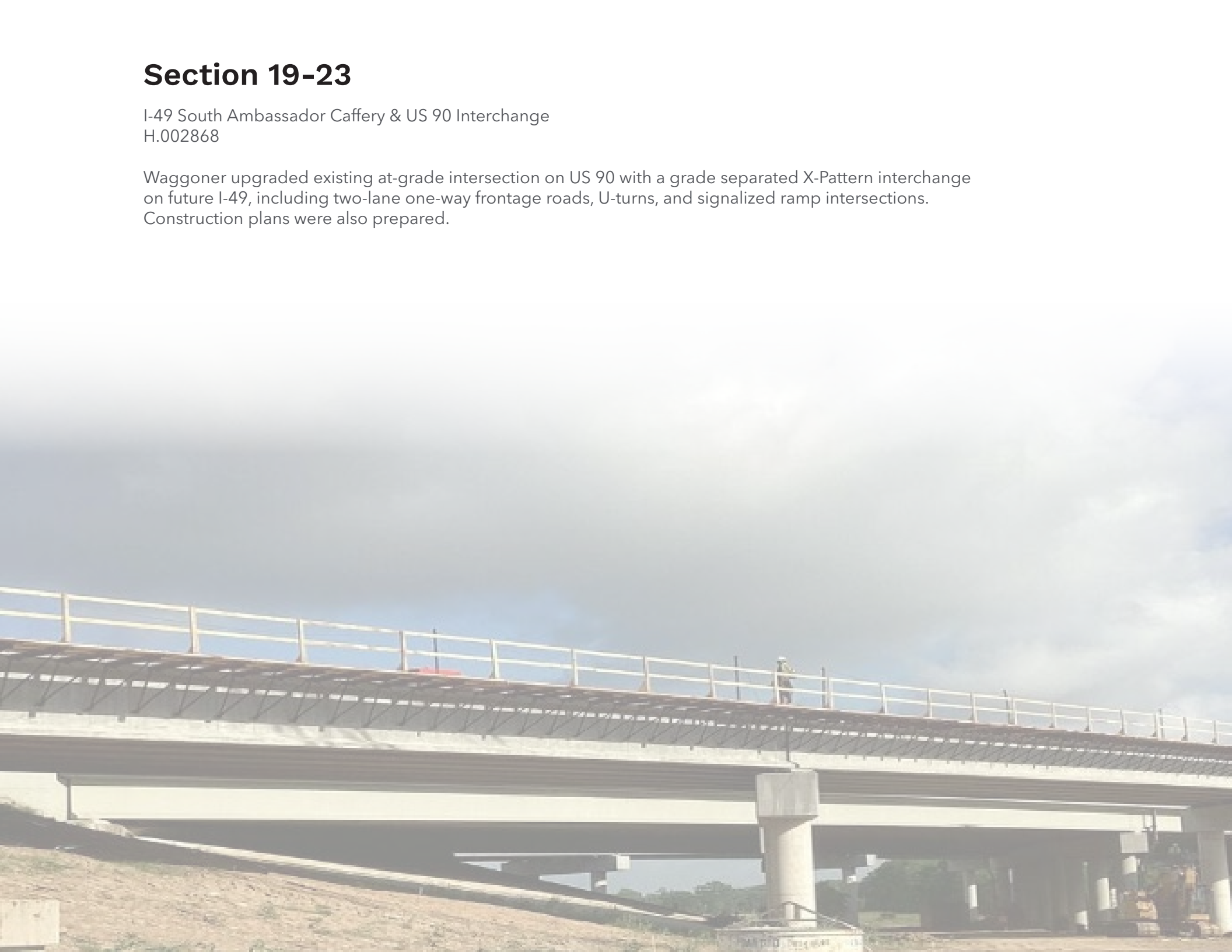
## CONSTRUCTION RELATED ENGINEERING SERVICES

Our team will remain involved with the project into the construction stage. This includes working with the LADOTD project manager, District personnel, and the CE&I consultants to address RFI's, assisting with solutions to unforeseen field conditions, reviewing project submittals from the contractor, and preparing plan changes when necessary. We will review each of these submittals to ensure conformity with the contract plans and specifications.

# Section 19-23

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

Waggoner 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 were also prepared.



## 19. WORKLOAD:

| Firm(s) ALL FIRMS MUST BE REPRESENTED IN 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: Sault and Trinity Roundabouts T.O. 3 | $288,702 |
| | | 44-18646, H.004100 | I-10: LA 415 to Essen Lane on I-10 and I-12 | $2,300,770 |
| | | 44-24084, H.009300 | CMAR Contract for Hooper Road Widening (LA 3034 - LA 37) | $9,820 |
| | | 4400029912 (4400019338) | Rural Bridge Replacement Initiative Phase II (South) (16 Project #s) | $223,892 |
| | Bridge | 4400029918 (4400025041) | IIJA Off-System Bridge Program, District 62 (6 Projects) | $20,502 |
| | | 4400029197, H.016093 | US 84: Grand Cane Bayou & Relief Bridges | $106,644 |
| | | 4400029197, H.016094 | US 371: Brushey Creek Bridge | $229,452 |
| | Other (Project Management) | 4400029197, 69 Projects | IIJA Off-System Bridge Project Management (7 Districts) | $830,000 |
| APS Engineering and Testing | Geotech | 4400024653, H.004005.5 | I-10 LA415 to Essen Lane on I-10 and I-12 | $55,00 |
| | CE&I/OV | 4400014913, H.010155.6 | US 90 RR Overpass SE of LA 85 | $233,076 |
| | | 4400032793, H.014239.6 | LA-589 Alligator Bayou Bridge | $36,710 |
| | | 4400024653, H.014560.6 | LA-94 Vermillion River Bridge | $14,987 |
| VECTURA CONSULTING SERVICES, LLC | CE&I/OV | 4400020018, H.007160 | EBR Computerized Traffic Signal, Ph VB | $23,595 |
| | Traffic | 4400021519, H.012030.5 | KCS RR Overpasses HBI | $572 |
| | | 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, H.014305 | US 61: Cardinal Dr to Bert St | $44,311 |
| | | 4400026026, H.016037 | LA 1138-1 & LA 1138-2: Corridor Improvements | $142,847 |
| | | 4400025299, H.016437.5 | US 190: Wooddale to Livingston P/L Study | $120,040 |

## 19. WORKLOAD:

| Firm(s) ALL FIRMS MUST BE REPRESENTED IN TABLE | Discipline(s)* | Contract Number and State Project Number | Project Name | Remaining Unpaid Balance** |
|---|---|---|---|---|
| NTBA SURVEY. DESIGN. BUILD. SUCCEED. | Survey | 4400019338 | Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (Sub to Waggoner) | $48,739 |
| | | 4400019337 | Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI) | $28,531 |
| | | 4400025041, H.015403 | Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program - W. Yellow Water Road Bridge, Tangipahoa Parish (Sub to Waggoner) | $1,055 |
| | | 4400027918, H.012869.5 | IDIQ Contract for Professional Boundary Surveying Services – Task Order 3 – LA 182 (Univ) @ LA 723 (Renaud) Roundabout, Lafayette Parish | $27,332 |
| | | 4400027918, H.011310 | IDIQ Contract for Professional Boundary Surveying Services – Task Order 4 – Ford Street Extension, District 61 | $8,603 |
| | | 4400027918, H.015721 | IDIQ Contract for Professional Boundary Surveying Services – Task Order 5 – LA 30 Roundabout, Ascension Parish | $23,592 |
| | | 4400027918, H.015568 | IDIQ Contract for Professional Boundary Surveying Services – Task Order 6 – LA 44 Pelican Point Roundabout & Widening, Ascension Parish | $44,108 |
| | | 4400027918, H.014059 | IDIQ Contract for Professional Boundary Surveying Services – Task Order 7 – US 80: Bridges Near Minden, Webster Parish | $10,024 |
| | | 4400027918, H.014059 | IDIQ Contract for Professional Boundary Surveying Services – Task Order 8 – US 80: Bridges Near Minden, Addt'l Site, Webster Parish | $842 |
| | | 4400027918, H.011970.5 | IDIQ Contract for Professional Boundary Surveying Services – Task Order 9 – LA 182: Bayou Terrebonne Bridges, Terrebonne Parish, | $30,452 |
| | | 4400027918, H.016325.5 | IDIQ Contract for Professional Boundary Surveying Services – Task Order 10 – LA 358: Creek Bridge, St. Landry & Acadia Parishes | $13,467 |
| | | 4400027918, H.010795.5 | IDIQ Contract for Professional Boundary Surveying Services – Task Order 11 – LA 42: Roundabout @ Joe Sevario Road, Ascension Parish | $27,774 |
| | | 4400031331, H.015477.5 | Shreveport Pavement Program- Task Order No. 2 – LA 1 Caddo Lake Bridge, Caddo Parish | $27,752 |
| | Other (SUE) | 2025-118, H.003855 | Cong Relief Winfield Road, Bossier Parish (Sub to Volkert) | $3,566 |
| | | 4400030630, H.015724.5 | Kings Hwy: Healthcare & Dev. Corridor, Caddo Parish (Sub to AFJ&M, City of Shreveport, & Forte & Tablada) | $193,085 |
| | | 4400026587, H.001779 | Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/ Huval & Associates, Inc.) | N/A |

## 20. CERTIFICATIONS/LICENSES:

# *Certificate of Completion*

presented to

*Alex Farr*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 1**

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

*Professional Development Hours (PDHs) Awarded:* 2

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Alex Farr*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 2**

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Alex Farr*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 3**

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

## 20. CERTIFICATIONS/LICENSES:

*Certificate of Completion*

presented to

*Brin Ferlito*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 1**

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

*Professional Development Hours (PDHs) Awarded:* 4

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

*Certificate of Completion*

presented to

*Brin Ferlito*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 2**

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

*Professional Development Hours (PDHs) Awarded:* 4

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

*Certificate of Completion*

presented to

*Brin Ferlito*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 3**

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

## 20. CERTIFICATIONS/LICENSES:

# *Certificate of Completion*

presented to

*Laurence Lambert*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 1**

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

*Professional Development Hours (PDHs) Awarded:* 2

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Laurence Lambert*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 2**

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Laurence Lambert*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 3**

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

## 20. CERTIFICATIONS/LICENSES:

*Certificate of Completion*

presented to

*Reece Rodrigue*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 1**

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

*Professional Development Hours (PDHs) Awarded:* 2

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

*Certificate of Completion*

presented to

*Reece Rodrigue*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 2**

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

*Professional Development Hours (PDHs) Awarded:* 3.5

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

*Certificate of Completion*

presented to

*Reece Rodrigue*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 3**

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

## 20. CERTIFICATIONS/LICENSES:

ATSSA
Safer Roads Save Lives

Robert Lear Jr.

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 16-MAY-2025

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com

ATSSA
Safer Roads Save Lives

Jace Ricard

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 14-MAR-2025

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com

ATSSA
Safer Roads Save Lives

Charlotte Gremillion

has attended
Louisiana Traffic Control Supervisor

Completed: 17-SEP-2025

CEU (If Applicable): 1.5

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

Kelsie Bankston

has attended
Louisiana Traffic Control Supervisor

Completed: 17-SEP-2025

CEU (If Applicable): 1.5

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:

ATSSA
Safer Roads Save Lives

Joshua Renard

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 16-MAY-2025

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

**Patrick Staiano**
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.*

ATSSA American Traffic Safety Services Association ATSSA.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.

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:

ATSSA
Safer Roads Save Lives

Laurence Lambert

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 27-APR-2026

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

Kristen Farrington

has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 18-APR-2025

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com

ATSSA 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:

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 (*Instructor Name*)

*Exp. Date* 5/8/2027 — Wanna M. Clark (*Instructor Signature*)

*State Issued* LA

A1000126196 — Verify at Flagger.com

ATSSA American Traffic Safety Services Association

*This is to affirm that*

Sheelagh Ferlito

*has satisfied the requirements to be designated as a*

**CERTIFIED FLAGGER**

*Issue Date* 5/9/2023 — ATSSA (*Instructor Name*)

*Exp. Date* 5/8/2027 — Wanna M. Clark (*Instructor Signature*)

*State Issued* LA

A1000126216 — Verify at Flagger.com

ATSSA
Safer Roads Save Lives

Reece Rodrigue

has attended
National Flagger Certification Training Course

Completed: 01-OCT-2024

CEU (If Applicable): 0

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

American Traffic Safety Services Association
ATSSA.com

## 20. CERTIFICATIONS/LICENSES:

AASHTO ACCREDITED

CERTIFICATE OF ACCREDITATION

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AASHTO

**APS Engineering and Testing, LLC.**

in

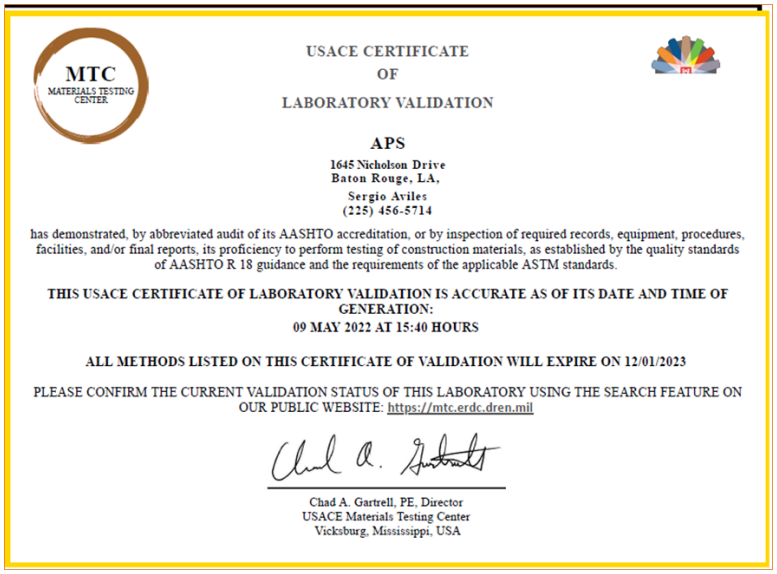
**Baton Rouge, Louisiana, USA**

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).

John Tymon,
*AASHTO Executive Director*

Matt Linneman,
*AASHTO COMP Chair*



MTC MATERIALS TESTING CENTER

USACE CERTIFICATE
OF
LABORATORY VALIDATION

**APS**
**1645 Nicholson Drive**
**Baton Rouge, LA,**
**Sergio Aviles**
**(225) 456-5714**

has demonstrated, by abbreviated audit of its AASHTO accreditation, or by inspection of required records, equipment, procedures, facilities, and/or final reports, its proficiency to perform testing of construction materials, as established by the quality standards of AASHTO R 18 guidance and the requirements of the applicable ASTM standards.

**THIS USACE CERTIFICATE OF LABORATORY VALIDATION IS ACCURATE AS OF ITS DATE AND TIME OF GENERATION:**
**09 MAY 2022 AT 15:40 HOURS**

**ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 12/01/2023**

PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON OUR PUBLIC WEBSITE: https://mtc.erdc.dren.mil

Chad A. Gartrell, PE, Director
USACE Materials Testing Center
Vicksburg, Mississippi, USA

DEQ LOUISIANA

**STATE OF LOUISIANA**
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Is hereby granting a Louisiana Environmental Laboratory Accreditation to**

Louisiana Environmental Lab Accreditation Program LELAP

**APS Engineering and Testing LLC**
**1645 Nicholson Dr**
**Baton Rouge, Louisiana 70802**

**Agency Interest No. 182994**
**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:** 5/14/2025
**Effective Date:** July 1, 2025
**Expiration Date:** June 30, 2026
**Certificate Number:** 05100

LED LOUISIANA ECONOMIC DEVELOPMENT

DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

A P S Engineering and Testing, LLC

is Certified-Active as a Small Entrepreneurship with Louisiana Economic Development's Hudson Initiative.

This certification is valid from 5/8/2025 to 5/8/2026

Certification No. 9274

Stephanie Hartman,
Director, Entrepreneurial Services

## 20. CERTIFICATIONS/LICENSES:

BR

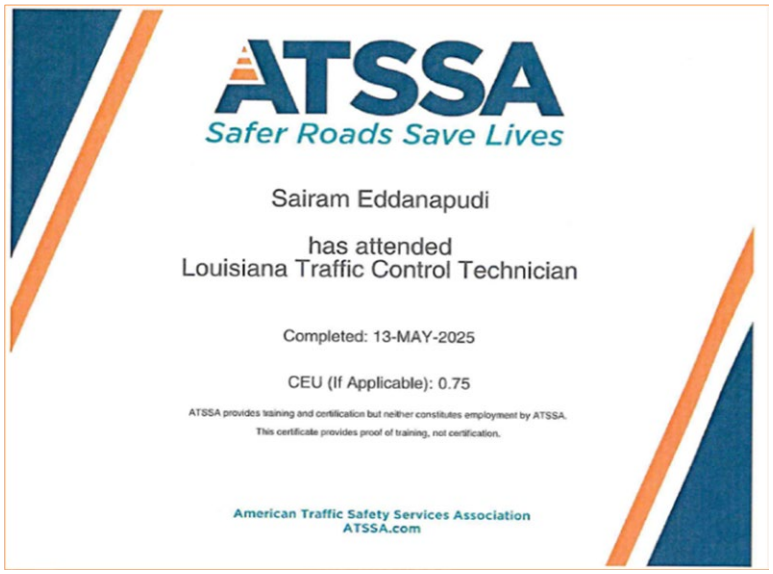
CITY OF BATON ROUGE
PARISH OF EAST BATON ROUGE

APS ENGINEERING & TESTING, LLC.

has successfully completed the requirements approved by the City of Baton Rouge, Parish of East Baton Rouge and is therefore awarded this

CERTIFICATE OF
SEDBE CERTIFICATION

JULY 21, 2023



ATSSA
Safer Roads Save Lives

Sairam Eddanapudi

has attended
Louisiana Traffic Control Technician

Completed: 13-MAY-2025

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com

ATSSA CERTIFIED

PROOF OF CERTIFICATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO
**Surendra Pathak**

has demonstrated a thorough knowledge of the standards, guidelines and practices of traffic control in highway construction and maintenance work areas; has completed all the requirements of the American Traffic Safety Services Association Certification Program to the satisfaction of the Certification Board; and is hereby awarded the designation of:

**Traffic Control Supervisor**

This certified Individual is fully entitled to all the rights and privileges associated with this designation. This certificate will remain in effect until the expiration date noted herein unless otherwise revoked by action of the Certification Board.

Issue Date: 12/29/2022
Expiration Date: 12/28/2026
Certification #: 440578

Vice President of Education and Technical Services

ATSSA American Traffic Safety Services Association
ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

**Sergio Aviles**
has attended
**Traffic Control Technician Virtual Training**
Training Course

1/24/2023 to 1/24/2027
Training Valid Through

CEU: 0.75

Director of Training

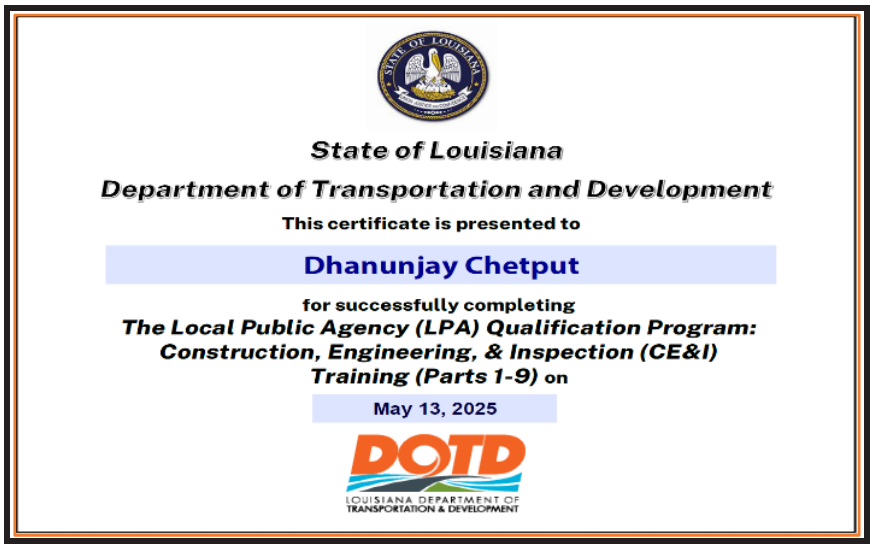
Location

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:



State of Louisiana

Department of Transportation and Development

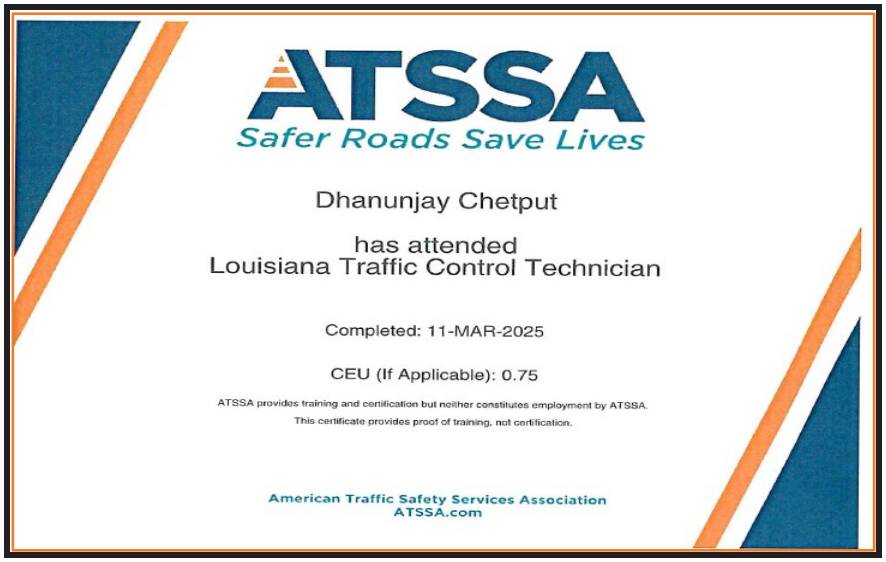
This certificate is presented to

Dhanunjay Chetput

for successfully completing
The Local Public Agency (LPA) Qualification Program:
Construction, Engineering, & Inspection (CE&I)
Training (Parts 1-9) on

May 13, 2025

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



ATSSA
Safer Roads Save Lives

Dhanunjay Chetput

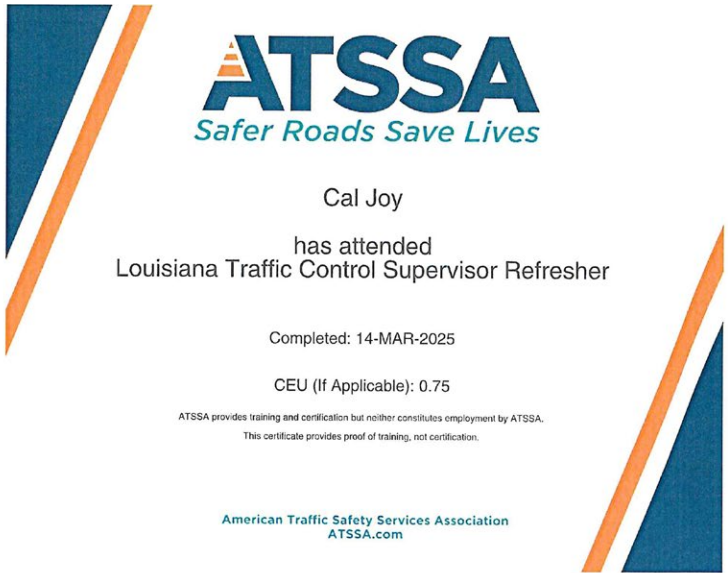
has attended
Louisiana Traffic Control Technician

Completed: 11-MAR-2025

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com



ATSSA
Safer Roads Save Lives

Cal Joy

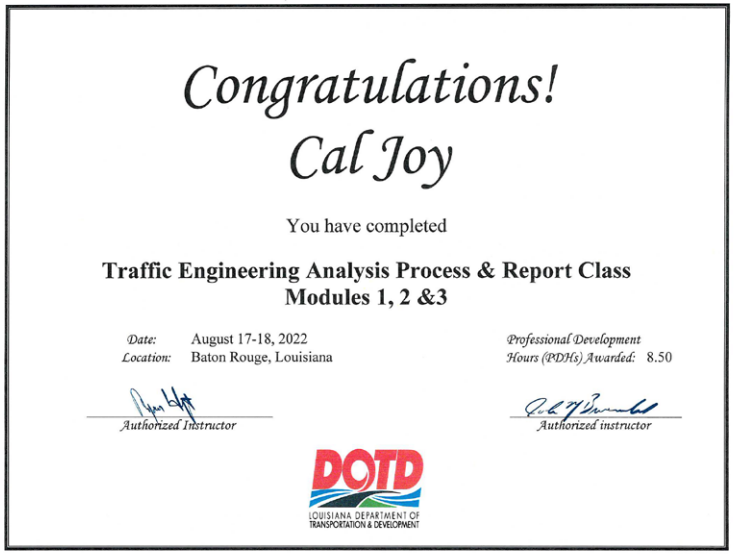
has attended
Louisiana Traffic Control Supervisor Refresher

Completed: 14-MAR-2025

CEU (If Applicable): 0.75

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

American Traffic Safety Services Association
ATSSA.com



Congratulations!
Cal Joy

You have completed

Traffic Engineering Analysis Process & Report Class
Modules 1, 2 &3

Date: August 17-18, 2022
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

## 20. CERTIFICATIONS/LICENSES:

ATSSA American Traffic Safety Services Association
Safer Roads Save Lives

This is to affirm that

**Surendra Pathak**

has satisfied the requirements to be designated as a

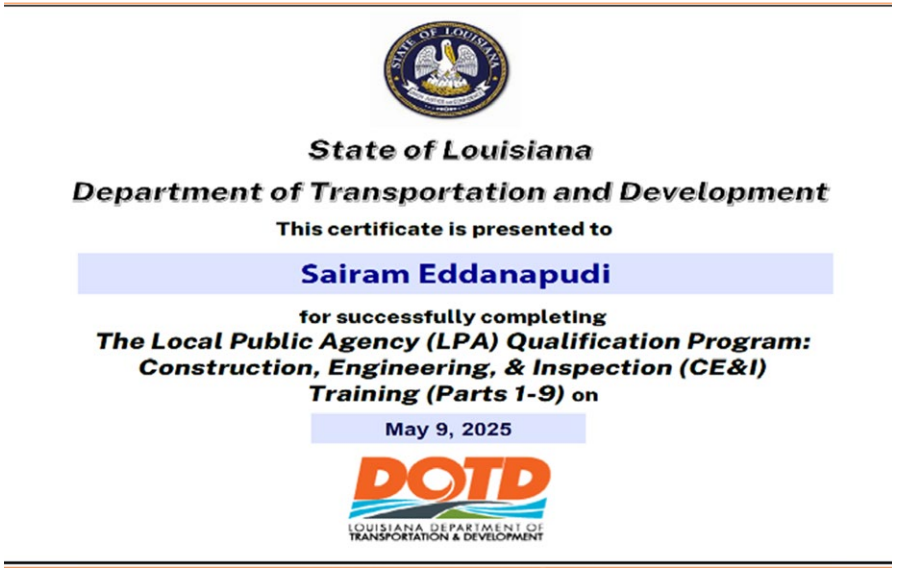
**CERTIFIED FLAGGER**

Issue Date: 1/29/2025 — ATSSA (Instructor Name)

Exp. Date: 1/28/2029 — (Instructor Signature)

State Issued: Louisiana

A1000282129 — Verify at Flagger.com



**State of Louisiana**

**Department of Transportation and Development**

This certificate is presented to

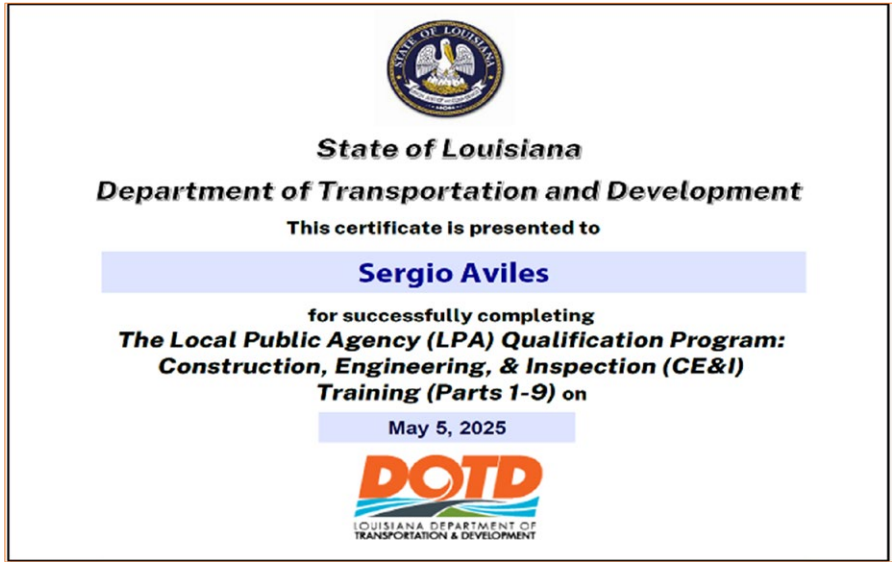
**Sairam Eddanapudi**

for successfully completing

***The Local Public Agency (LPA) Qualification Program: Construction, Engineering, & Inspection (CE&I) Training (Parts 1-9)*** on

May 9, 2025

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT



**State of Louisiana**

**Department of Transportation and Development**

This certificate is presented to

**Sergio Aviles**

for successfully completing

***The Local Public Agency (LPA) Qualification Program: Construction, Engineering, & Inspection (CE&I) Training (Parts 1-9)*** on

May 5, 2025

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

RTA — DOTD

**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.*

**Paula Roddy, Compliance Programs Director**

*Louisiana Department of Transportation & Development*

## 20. CERTIFICATIONS/LICENSES:

# *Certificate of Completion*

presented to

*Kristen Gahagan*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 1**

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

*Professional Development Hours (PDHs) Awarded:* 2.5

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Kristen Gahagan*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 2**

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# *Certificate of Completion*

presented to

*Kristen Gahagan*

for completing the

**Traffic Engineering Analysis Process & Report**
**Module 3**

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

*Professional Development Hours (PDHs) Awarded:* 3

*Authorized Instructor* *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

# 20. CERTIFICATIONS/LICENSES:

State of Louisiana
Secretary of State

**COMMERCIAL DIVISION**
**225.925.4704**

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

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

**Previous Names**

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

**Status**

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

**State**

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

| Name | Type | City | Status |
|---|---|---|---|
| APS ENGINEERING AND TESTING, LLC | Limited Liability Company | BATON ROUGE | Active |

**Previous Names**

**Business:** APS ENGINEERING AND TESTING, LLC
**Charter Number:** 40911984K
**Registration Date:** 8/9/2012
**Domicile Address**
1645 NICHOLSON DR
BATON ROUGE, LA 70802
**Mailing Address**
5261 HIGHLAND RD. #320
BATON ROUGE, LA 70808

## Status

**Status:** **Active**
**Annual Report Status:** **In Good Standing**
**File Date:** 8/9/2012
**Last Report Filed:** 7/15/2025
**Type:** Limited Liability Company

# 20. CERTIFICATIONS/LICENSES:

State of Louisiana
Secretary of State

**COMMERCIAL DIVISION**
**225.925.4704**

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

| Name | Type | City | Status |
|---|---|---|---|
| NTB ASSOCIATES, INC. | Business Corporation | SHREVEPORT | Active |

**Previous Names**

NTB, INC. (Changed: 1/4/2000)

**Business:** NTB ASSOCIATES, INC.
**Charter Number:** 34216133D
**Registration Date:** 8/14/1986
**Domicile Address**

525 LOUISIANA AVE.
SHREVEPORT, LA 71101

**Mailing Address**

525 LOUISIANA AVE.
SHREVEPORT, LA 71101

**Principal Office Address**

525 LOUISIANA AVE.
SHREVEPORT, LA 71101

## Status

**Status:** **Active**
**Annual Report Status:** **In Good Standing**
**File Date:** 8/14/1986
**Last Report Filed:** 7/25/2024
**Type:** Business Corporation

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

## 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 |
|---|---|---|---|
| APS Engineering and Testing, LLC | 1645 Nicholson Drive<br>Baton Rouge, LA 70802 | Sergio Aviles, PE \| President<br>sergio@aps-testing.com | 225.456.5714 |
| NTB Associates, Inc. | Corporate Headquarters:<br>525 Louisiana Avenue<br>Shreveport, LA 71101<br>Branch Office:<br>8643 Main Street<br>Zachary, LA 70791 | Michael J. King, PLS \| Vice President<br>mking@ntbainc.com | 225.454.8925 |
| Vectura Consulting Services, LLC | PO Box 14269<br>Baton Rouge, LA 70898 | Brin Ferlito, PE \| Partner<br>bferlito@vecturacs.com | 225.223.6685 |

## 21. QA/QC PLAN:

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

## 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.